

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization  
International Bureau



(43) International Publication Date  
14 June 2001 (14.06.2001)

PCT

(10) International Publication Number  
WO 01/42467 A2

(51) International Patent Classification<sup>7</sup>: C12N 15/12,  
C07K 14/47, 16/30, G01N 33/68, C12Q 1/68, A61K  
31/7088 // A61P 35/00

MA 02138 (US). ZHAO, Xumei; 6 Wildwood Lane,  
Burlington, MA 01803 (US).

(21) International Application Number: PCT/US00/33312

(74) Agents: SMITH, DeAnn, F. et al.; Lahive & Cockfield,  
LLP, 28 State Street, Boston, MA 02109 (US).

(22) International Filing Date: 8 December 2000 (08.12.2000)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
60/169,681 8 December 1999 (08.12.1999) US  
60/171,350 21 December 1999 (21.12.1999) US  
60/189,315 14 March 2000 (14.03.2000) US  
60/203,791 12 May 2000 (12.05.2000) US  
60/210,600 9 June 2000 (09.06.2000) US  
60/220,114 21 July 2000 (21.07.2000) US

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU,  
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ,  
DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR,  
HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,  
LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ,  
NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM,  
TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW.

(84) Designated States (*regional*): ARIPO patent (GH, GM,  
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian  
patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European  
patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE,  
IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF,  
CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

(71) Applicant: MILLENNIUM PREDICTIVE  
MEDICINE, INC. [US/US]; One Kendall Square  
Bldg. 700, Cambridge, MA 02139 (US).

**Published:**

— Without international search report and to be republished  
upon receipt of that report.

(72) Inventors: SCHLEGEL, Robert; 211 Melrose Street,  
Auburndale, MA 02466 (US). DEEDS, James; 39 Charn-  
wood Road, #1, Somerville, MA 02144 (US). BERGER,  
Allison; 1105 Massachusetts Avenue, #8A, Cambridge,

For two-letter codes and other abbreviations, refer to the "Guid-  
ance Notes on Codes and Abbreviations" appearing at the begin-  
ning of each regular issue of the PCT Gazette.

WO 01/42467 A2

(54) Title: NOVEL GENES, COMPOSITIONS, KITS, AND METHODS FOR IDENTIFICATION, ASSESSMENT, PREVEN-  
TION, AND THERAPY OF CERVICAL CANCER

(57) Abstract: The invention relates to compositions, kits, and methods for detecting, characterizing, preventing, and treating human  
cervical cancers. A variety of novel markers are provided, wherein changes in the levels of expression of one or more of the markers  
is correlated with the presence of cervical cancer.

A5 - 10/091,166

NOVEL GENES, COMPOSITIONS, KITS, AND METHODS FOR  
IDENTIFICATION, ASSESSMENT, PREVENTION,  
AND THERAPY OF CERVICAL CANCER

5

## RELATED APPLICATIONS

The present application claims priority to U.S. provisional application serial no. 60/169,681, filed on December 8, 1999, U.S. provisional application serial no. 60/171,350, filed on December 21, 1999, U.S. provisional application serial no. 60/189,315, filed on March 14, 2000, U.S. provisional application serial no. 60/203,791, filed on May 12, 2000, and U.S. provisional application serial no. 60/210,600, filed on June 9, 2000, all of which are expressly incorporated by reference.

10

## FIELD OF THE INVENTION

The field of the invention is cervical cancer, including diagnosis,  
characterization, management, and therapy of cervical cancer.

15

## BACKGROUND OF THE INVENTION

The increased number of cancer cases reported in the United States, and, indeed, around the world, is a major concern. Currently there are only a handful of treatments available for specific types of cancer, and these provide no absolute guarantee of success. In order to be most effective, these treatments require not only an early detection of the malignancy, but a reliable assessment of the severity of the malignancy.

20

Cancer of the cervix is one of the most common malignancies in women and remains a significant public health problem throughout the world. In the United States alone, invasive cervical cancer accounts for approximately 19% of all gynecological cancers. In 1996, it is estimated that there will be 14,700 newly diagnosed cases and 4900 deaths attributed to this disease (American Cancer Society, Cancer Facts & Figures 1996, Atlanta, Ga.: American Cancer Society, 1996). In many developing countries, where mass screening programs are not widely available, the clinical problem is more serious. Worldwide, the number of new cases is estimated to be 471,000 with a four-year survival rate of only 40% (Munoz et al., 1989, *Epidemiology of Cervical Cancer* In: "Human Papillomavirus", New York, Oxford Press, pp 9-39; National Institutes of

25

30



Health, Consensus Development Conference Statement on Cervical Cancer, Apr.1-3, 1996).

The precursor to cervical cancer is dysplasia, also known in the art as cervical intraepithelial neoplasia (CIN) or squamous intraepithelial lesions (SIL). While it is not understood how normal cells become transformed, the concept of a continuous spectrum of histopathological change from normal, stratified epithelium through CIN to invasive cancer has been widely accepted for many years. A large body of epidemiological and molecular biological evidence has established human papillomavirus (HPV) infection as a causative factor in cervical cancer. HPV is found in 85% or more of squamous cell invasive lesions, which represent the most common histologic type seen in cervical carcinoma. Additional cofactors have also been identified, including oncogenes that have been activated by point mutations and chromosomal translocations or deletions.

In light of this, cervical cancer remains a highly preventable form of cancer when pre-invasive lesions are detected early. Cytological examination of Papanicolaou-stained cervical smears (also referred to as Pap smears) is currently the principle method for detecting cervical cancer. Not surprisingly, the effectiveness of Pap smear screening varies depending not only upon the quality of the sample being used, but also upon subjective parameters that are inherent to the analysis. In addition, despite the historical success of the test, concerns have arisen regarding its ability to reliably predict the behavior of some pre-invasive lesions (Ostor *et al.*, 1993, *Int. J. Gynecol. Pathol.* 12: 186-192; and Genest *et al.*, 1993, *Human Pathol.* 24: 730-736).

It would be therefore be desirable to provide specific methods and reagents for the diagnosis, staging, prognosis, monitoring, and treatment of diseases associated with cervical cancer, or to indicate a predisposition to such for preventative measures.

25

#### SUMMARY OF THE INVENTION

The invention relates to novel genes associated with cervical cancer as well as methods of assessing whether a patient is afflicted with cervical cancer. "Cervical cancer" as used herein includes pre-malignant conditions, *e.g.*, CIN and SIL. The methods of the present invention comprise the step of comparing the level of expression of a novel marker in a patient sample, wherein the marker is listed within Tables 1-4, and the normal level of expression of the marker in a control, *e.g.*, a sample from a

30

patient without cervical cancer. A significant difference between the level of expression of the marker in the patient sample and the normal level is an indication that the patient is afflicted with cervical cancer or has a pre-malignant condition (*e.g.*, CIN and/or SIL).

In one method, the marker(s) are preferably selected such that the positive  
5 predictive value of the method is at least about 10%. Also preferred are embodiments of the method wherein the marker is differentially-expressed by at least two-fold in at least about 20% of any of the following conditions: stage 0 cervical cancer patients, stage I cervical cancer patients, stage II cervical cancer patients, stage III cervical cancer patients, stage IV cervical cancer patients, grade I cervical cancer patients, grade II  
10 cervical cancer patients, grade III cervical cancer patients, squamous cell (epidermoid) cervical cancer patients, cervical adenocarcinoma patients, cervical adenosquamous carcinoma patients, small-cell cervical carcinoma patients, malignant cervical cancer patients, patients with primary carcinomas of the cervix, patients with primary malignant lymphomas of the cervix and patients with secondary malignant lymphomas of the  
15 cervix, and all other types of cancers, malignancies and transformations associated with the cervix.

In one embodiment of the methods of the present invention, the sample comprises cells obtained from the patient. The cells may be found in a cervical smear collected, for example, by a cervical brush. In another embodiment, the patient sample  
20 is a cervical-associated body fluid. Such fluids include, for example, blood fluids, lymph, ascitic fluids, gynecological fluids, urine, and fluids collected by peritoneal rinsing.

In accordance with the methods of the present invention, the presence and/or level of expression of the marker in a sample can be assessed, for example, by detecting  
25 the presence in the sample of :

- a protein corresponding to the marker or a fragment of the protein (*e.g.* using a reagent, such as an antibody, an antibody derivative, or an antibody fragment, which binds specifically with the protein or a fragment of the protein)
- 30 • a metabolite which is produced directly (*i.e.*, catalyzed) or indirectly by a protein corresponding to the marker

- 4 -

- a transcribed polynucleotide (*e.g.* an mRNA or a cDNA), or fragment thereof, having at least a portion with which the marker is substantially homologous (*e.g.* by contacting a mixture of transcribed polynucleotides obtained from the sample with a substrate having one or more of the markers listed within Tables 1-4 fixed thereto at selected positions)
- a transcribed polynucleotide or fragment thereof, wherein the polynucleotide anneals with the marker under stringent hybridization conditions.

The methods of the present invention are particularly useful for identifying patients with a pre-malignant condition such as CIN and/or SIL. The methods are also useful for further diagnosing patients having an identified cervical mass or symptoms associated with cervical cancer. The methods of the present invention can further be of particular use with patients having an enhanced risk of developing cervical cancer (*e.g.*, patients having a familial history of cervical cancer and patients identified as having a mutant oncogene). The methods of the present invention may further be of particular use in monitoring the efficacy of treatment of a cervical cancer patient (*e.g.* the efficacy of chemotherapy).

The methods of the present invention may be performed using a plurality (*e.g.* 2, 3, 5, or 10 or more) of markers. According to a method involving a plurality of markers, the level of expression in the sample of each of a plurality of markers independently selected from the markers listed in Tables 1-4 is compared with the normal level of expression of each of the plurality of markers in samples of the same type obtained from control humans not afflicted with cervical cancer. A significantly enhanced level of expression in the sample of one or more of the markers listed in Tables 1-4, or some combination thereof, relative to that marker's corresponding normal levels, is an indication that the patient is afflicted with cervical cancer. The markers of Tables 1-4 may also be used in combination with known cervical cancer markers in the methods of the present invention.

In a preferred method of assessing whether a patient is afflicted with cervical cancer (*e.g.*, new detection ("screening"), detection of recurrence, reflex testing), the method comprises comparing:

- 5 -

- a) the level of expression of a marker in a patient sample, wherein at least one marker is selected from the markers of Tables 1-4, and
- b) the normal level of expression of the marker in a control non-cervical cancer sample.

5 A significant difference between the level of expression of the marker in the patient sample and the normal level is an indication that the patient is afflicted with cervical cancer.

The invention further relates to a method of assessing the efficacy of a therapy  
10 for inhibiting cervical cancer in a patient. This method comprises comparing:

- a) expression of a marker in a first sample obtained from the patient prior to providing at least a portion of the therapy to the patient, wherein the marker is selected from the group consisting of the markers listed within Tables 1-4, and
- 15 b) expression of the marker in a second sample obtained from the patient following provision of the portion of the therapy.

A significantly lower level of expression of the marker in the second sample, relative to the first sample, is an indication that the therapy is efficacious for inhibiting cervical cancer in the patient.

20 It will be appreciated that in this method the "therapy" may be any therapy for treating cervical cancer including, but not limited to, chemotherapy, radiation therapy and surgical removal of tissue, *e.g.*, a cervical tumor. Thus, the methods of the invention may be used to evaluate a patient before, during and after therapy, for example, to evaluate the reduction in tumor burden.

25 The present invention therefore further comprises a method for monitoring the progression of cervical cancer in a patient, the method comprising:

- a) detecting in a patient sample at a first time point, the expression of a marker, wherein the marker is selected from the group consisting of the markers listed in Tables 1-4;
- 30 b) repeating step a) at a subsequent time point in time; and
- c) comparing the level of expression detected in steps a) and b), and therefrom monitoring the progression of cervical cancer in the patient.

The invention also includes a method of selecting a composition for inhibiting cervical cancer in a patient. This method comprises the steps of:

- a) obtaining a sample comprising cancer cells from the patient;
- b) separately maintaining aliquots of the sample in the presence of a plurality of test compositions;
- c) comparing expression of a marker listed within Tables 1-4 in each of the aliquots; and
- d) selecting one of the test compositions which induces a lower level of expression of the marker in the aliquot containing that test composition, relative to other test compositions.

In addition, the invention includes a method of inhibiting cervical cancer in a patient. This method comprises the steps of:

- a) obtaining a sample comprising cancer cells from the patient;
- b) separately maintaining aliquots of the sample in the presence of a plurality of test compositions;
- c) comparing expression of a marker listed within Tables 1-4 in each of the aliquots; and
- d) administering to the patient at least one of the test compositions which induces a lower level of expression of the marker in the aliquot containing that test composition, relative to other test compositions.

The invention also includes a kit for assessing whether a patient is afflicted with cervical cancer. This kit comprises reagents for assessing expression of a marker listed within Tables 1-4.

In another aspect, the invention relates to a kit for assessing the suitability of each of a plurality of compounds for inhibiting a cervical cancer in a patient. The kit comprises a reagent for assessing expression of a marker listed within Tables 1-4, and may also comprise a plurality of compounds.

In another aspect, the invention relates to a kit for assessing the presence of cervical cancer cells. This kit comprises an antibody, wherein the antibody binds specifically with a protein corresponding to a marker listed within Tables 1-4. The kit may also comprise a plurality of antibodies, wherein the plurality binds specifically with a protein corresponding to a different marker listed within Tables 1-4.

- 7 -

The invention also includes a kit for assessing the presence of cervical cancer cells, wherein the kit comprises a nucleic acid probe. The probe binds specifically with a transcribed polynucleotide corresponding to a marker listed within Tables 1-4. The kit may also comprise a plurality of probes, wherein each of the probes binds specifically  
5 with a transcribed polynucleotide corresponding to a different marker listed within Tables 1-4.

The invention further relates to a method of making an isolated hybridoma which produces an antibody useful for assessing whether a patient is afflicted with cervical cancer. The method comprises isolating a protein or protein fragment corresponding to  
10 a marker listed within Tables 1-4, immunizing a mammal using the isolated protein or protein fragment, isolating splenocytes from the immunized mammal, fusing the isolated splenocytes with an immortalized cell line to form hybridomas, and screening individual hybridomas for production of an antibody which specifically binds with the protein or protein fragment to isolate the hybridoma. The invention also includes an antibody  
15 produced by this method.

The invention further includes a method of assessing the cervical carcinogenic potential of a test compound. This method comprises the steps of:

- a) maintaining separate aliquots of cervical cells in the presence and absence of the test compound; and
- 20 b) comparing expression of a marker in each of the aliquots.

The marker is selected from those listed within Tables 1-4. A significantly enhanced level of expression of the marker in the aliquot maintained in the presence of (or exposed to) the test compound, relative to the aliquot maintained in the absence of the test compound, is an indication that the test compound possesses cervical  
25 carcinogenic potential.

Additionally, the invention includes a kit for assessing the cervical carcinogenic potential of a test compound. The kit comprises cervical cells and a reagent for assessing expression of a marker in each of the aliquots. The marker is selected from those listed within Tables 1-4.

The invention further relates to a method of treating a patient afflicted with cervical cancer. This method comprises providing to cells of the patient an antisense oligonucleotide complementary to a polynucleotide corresponding to a marker listed within Tables 1-4.

- 5           The invention includes a method of inhibiting cervical cancer in a patient at risk for developing cervical cancer. This method comprises inhibiting expression or overexpression of a gene corresponding to a marker listed within Tables 1-4.

          It will be appreciated that the methods and kits of the present invention may also include known cancer markers including known cervical cancer markers. It will further  
10       be appreciated that the methods and kits may be used to identify cancers other than cervical cancer.

#### DETAILED DESCRIPTION OF THE INVENTION

          The invention relates to newly discovered genes associated with the cancerous  
15       state of cervical cells. It has been discovered that the level of expression of these individual genes, also referred to as markers, and combinations of these genes correlates with the presence of cervical cancer or a pre-malignant condition in a patient. Methods are provided for detecting the presence of cervical cancer in a sample, the absence of cervical cancer in a sample, the stage of cervical cancer, and with other characteristics of  
20       cervical cancer that are relevant to prevention, diagnosis, characterization and therapy of cervical cancer in a patient. As used herein, "cervical cancer" includes pre-malignant conditions including CIN and SIL.

#### Definitions

- 25           As used herein, each of the following terms has the meaning associated with it in this section.

          The articles "a" and "an" are used herein to refer to one or to more than one (*i.e.* to at least one) of the grammatical object of the article. By way of example, "an element" means one element or more than one element.

- 30           A "marker" is a naturally-occurring polymer corresponding to at least one of the novel nucleic acids listed within Tables 1-4. For example, markers include, without limitation, sense and anti-sense strands of genomic DNA (*i.e.* including any introns

occurring therein), RNA generated by transcription of genomic DNA (*i.e.* prior to splicing), RNA generated by splicing of RNA transcribed from genomic DNA, and proteins generated by translation of spliced RNA (*i.e.* including proteins both before and after cleavage of normally cleaved regions such as transmembrane signal sequences).

- 5 As used herein, "marker" may also include a cDNA made by reverse transcription of an RNA generated by transcription of genomic DNA (including spliced RNA).

As used herein a "polynucleotide corresponds to" another (a first) polynucleotide if it is related to the first polynucleotide by any of the following relationships: The second polynucleotide comprises the first polynucleotide and the second polynucleotide  
10 encodes a gene product; 2) The second polynucleotide is 5' or 3' to the first polynucleotide in cDNA, RNA, genomic DNA, or fragment of any of these polynucleotides. For example, a second polynucleotide may be a fragment of a gene that includes the first and second polynucleotides. The first and second polynucleotides are related in that they are components of the gene coding for a gene product, such as a  
15 protein or antibody. However, it is not necessary that the second polynucleotide comprises or overlaps with the first polynucleotide to be encompassed within the definition of "corresponding to" as used herein. For example, the first polynucleotide may be a fragment of a 3' untranslated region of the second polynucleotide. The first and second polynucleotide may be fragments of a gene coding for a gene product. The  
20 second polynucleotide may be an exon of the gene while the first polynucleotide may be an intron of the gene; 3) The second polynucleotide is the complement of the first polynucleotide.

The term "probe" refers to any molecule which is capable of selectively binding to a specifically intended target molecule, for example a marker of the invention.

- 25 Probes can be either synthesized by one skilled in the art, or derived from appropriate biological preparations. For purposes of detection of the target molecule, probes may be specifically designed to be labeled, as described herein. Examples of molecules that can be utilized as probes include, but are not limited to, RNA, DNA, proteins, antibodies, and organic monomers.

- 30 A "cervical-associated" body fluid is a fluid which, when in the body of a patient, contacts or passes through cervical cells or into which cells or proteins shed from cervical cells are capable of passing. Exemplary cervical-associated body fluids



include blood fluids, lymph, ascites, gynecological fluids, cystic fluid, urine, and fluids collected by peritoneal rinsing.

The "normal" level of expression of a marker is the level of expression of the marker in cervical cells of a patient, *e.g.* a human, not afflicted with cervical cancer.

5 "Over-expression" and "under-expression" of a marker refer to expression of the marker of a patient at a greater or lesser level, respectively, than normal level of expression of the marker (*e.g.* at least two-fold greater or lesser level).

As used herein, the term "promoter/regulatory sequence" means a nucleic acid sequence which is required for expression of a gene product operably linked to the  
10 promoter/regulatory sequence. In some instances, this sequence may be the core promoter sequence and in other instances, this sequence may also include an enhancer sequence and other regulatory elements which are required for expression of the gene product. The promoter/regulatory sequence may, for example, be one which expresses the gene product in a tissue-specific manner.

15 A "constitutive" promoter is a nucleotide sequence which, when operably linked with a polynucleotide which encodes or specifies a gene product, causes the gene product to be produced in a living human cell under most or all physiological conditions of the cell.

An "inducible" promoter is a nucleotide sequence which, when operably linked  
20 with a polynucleotide which encodes or specifies a gene product, causes the gene product to be produced in a living human cell substantially only when an inducer which corresponds to the promoter is present in the cell.

A "tissue-specific" promoter is a nucleotide sequence which, when operably linked with a polynucleotide which encodes or specifies a gene product, causes the gene  
25 product to be produced in a living human cell substantially only if the cell is a cell of the tissue type corresponding to the promoter.

A "transcribed polynucleotide" is a polynucleotide (*e.g.* an RNA, a cDNA, or an analog of one of an RNA or cDNA) which is complementary to or homologous with all or a portion of a mature RNA made by transcription of a genomic DNA corresponding  
30 to a marker of the invention and normal post-transcriptional processing (*e.g.* splicing), if any, of the transcript.

"Complementary" refers to the broad concept of sequence complementarity between regions of two nucleic acid strands or between two regions of the same nucleic acid strand. It is known that an adenine residue of a first nucleic acid region is capable of forming specific hydrogen bonds ("base pairing") with a residue of a second nucleic acid region which is antiparallel to the first region if the residue is thymine or uracil. Similarly, it is known that a cytosine residue of a first nucleic acid strand is capable of base pairing with a residue of a second nucleic acid strand which is antiparallel to the first strand if the residue is guanine. A first region of a nucleic acid is complementary to a second region of the same or a different nucleic acid if, when the two regions are arranged in an antiparallel fashion, at least one nucleotide residue of the first region is capable of base pairing with a residue of the second region. Preferably, the first region comprises a first portion and the second region comprises a second portion, whereby, when the first and second portions are arranged in an antiparallel fashion, at least about 50%, and preferably at least about 75%, at least about 90%, or at least about 95% of the nucleotide residues of the first portion are capable of base pairing with nucleotide residues in the second portion. More preferably, all nucleotide residues of the first portion are capable of base pairing with nucleotide residues in the second portion.

"Homologous" as used herein, refers to nucleotide sequence similarity between two regions of the same nucleic acid strand or between regions of two different nucleic acid strands. When a nucleotide residue position in both regions is occupied by the same nucleotide residue, then the regions are homologous at that position. A first region is homologous to a second region if at least one nucleotide residue position of each region is occupied by the same residue. Homology between two regions is expressed in terms of the proportion of nucleotide residue positions of the two regions that are occupied by the same nucleotide residue. By way of example, a region having the nucleotide sequence 5'-ATTGCC-3' and a region having the nucleotide sequence 5'-TATGGC-3' share 50% homology. Preferably, the first region comprises a first portion and the second region comprises a second portion, whereby, at least about 50%, and preferably at least about 75%, at least about 90%, or at least about 95% of the nucleotide residue positions of each of the portions are occupied by the same nucleotide residue. More preferably, all nucleotide residue positions of each of the portions are occupied by the same nucleotide residue.

A marker is "fixed" to a substrate if it is covalently or non-covalently associated with the substrate such the substrate can be rinsed with a fluid (*e.g.* standard saline citrate, pH 7.4) without a substantial fraction of the marker dissociating from the substrate.

5           As used herein, a "naturally-occurring" nucleic acid molecule refers to an RNA or DNA molecule having a nucleotide sequence that occurs in nature (*e.g.* encodes a natural protein).

          Expression of a marker in a patient is "significantly" higher than the normal level of expression of a marker if the level of expression of the marker is greater than the  
10   normal level by an amount greater than the standard error of the assay employed to assess expression, and preferably at least twice, and more preferably three, four, five or ten times that amount. Alternately, expression of the marker in the patient can be considered "significantly" higher or lower than the normal level of expression if the level of expression is at least about two, and preferably at least about three, four, or five  
15   times, higher or lower, respectively, than the normal level of expression of the marker.

          Cervical cancer is "inhibited" if at least one symptom of the cancer is alleviated, terminated, slowed, or prevented. As used herein, cervical cancer is also "inhibited" if recurrence or metastasis of the cancer is reduced, slowed, delayed, or prevented.

          A kit is any manufacture (*e.g.* a package or container) comprising at least one  
20   reagent, *e.g.* a probe, for specifically detecting a marker of the invention, the manufacture being promoted, distributed, or sold as a unit for performing the methods of the present invention.

#### Description

25           The present invention is based, in part, on identification of novel markers which are expressed at a higher level in cervical cancer cells than they are in normal (*i.e.* non-cancerous) cervical cells. The markers of the invention correspond to nucleic acid and polypeptide molecules which can be detected in one or both of normal and cancerous cervical cells. The presence, absence, or level of expression of one or more of these  
30   markers in cervical cells is herein correlated with the cancerous state of the tissue. The invention thus includes compositions, kits, and methods for assessing the cancerous state

of cervical cells (*e.g.* cells obtained from a human, cultured human cells, archived or preserved human cells and *in vivo* cells).

The compositions, kits, and methods of the invention have the following uses, among others:

- 5           1)     assessing whether a patient is afflicted with cervical cancer, including assessing whether the patient has a pre-malignant condition, *e.g.*, CIN and/or SIL;
- 2)     assessing the stage of cervical cancer in a human patient;
- 3)     assessing the grade of cervical cancer in a patient;
- 4)     assessing the benign or malignant nature of cervical cancer in a patient;
- 10          5)     assessing the histological type of neoplasm (*e.g.* squamous cell, small cell, etc.) associated with cervical cancer in a patient;
- 6)     making an isolated hybridoma which produces an antibody useful for assessing whether a patient is afflicted with cervical cancer;
- 7)     assessing the presence of cervical cancer cells;
- 15          8)     assessing the efficacy of one or more test compounds for inhibiting cervical cancer in a patient;
- 9)     assessing the efficacy of a therapy for inhibiting cervical cancer in a patient;
- 10)    monitoring the progression of cervical cancer in a patient;
- 20          11)    selecting a composition or therapy for inhibiting cervical cancer in a patient;
- 12)    treating a patient afflicted with cervical cancer;
- 13)    inhibiting cervical cancer in a patient;
- 14)    assessing the cervical carcinogenic potential of a test compound;
- 25               and
- 15)    inhibiting cervical cancer in a patient at risk for developing cervical cancer.

30           The invention thus includes a method of assessing whether a patient is afflicted with cervical cancer which includes assessing whether the patient has a pre-malignant condition. This method comprises comparing the level of expression of a marker in a patient sample and the normal level of expression of the marker in a control, *e.g.*, a non-

cervical cancer sample. A significant difference between the level of expression of the marker in the patient sample and the normal level is an indication that the patient is afflicted with cervical cancer. The marker is selected from the group consisting of the markers listed within Tables 1-4.

5           The polynucleotides set forth in Tables 1-4 represent previously unidentified nucleotide sequences. These nucleotide sequences were identified through subtracted library experiments described herein. Also provided by this invention are polynucleotides that correspond to the polynucleotides of Tables 1-4. In one embodiment, these polynucleotides are obtained by identification of a larger fragment or  
10 full-length coding sequence of these polynucleotides. Gene delivery vehicles, host cells, compositions and databases (all describe herein) containing these polynucleotides are also provided by this invention.

          The invention also encompasses polynucleotides which differ from that of the polynucleotides described above, but which produce the same phenotypic effect, such as  
15 an allelic variant. These altered, but phenotypically equivalent polynucleotides are referred to as "equivalent nucleic acids." This invention also encompasses polynucleotides characterized by changes in non-coding regions that do not alter the polypeptide produced therefrom when compared to the polynucleotide herein. This invention further encompasses polynucleotides, which hybridize to the polynucleotides  
20 of the subject invention under conditions of moderate or high stringency. Alternatively, the polynucleotides are at least 85%, or at least 90%, or more preferably, greater or equal to 95% identical as determined by a sequence alignment program when run under default parameters.

          Any marker or combination of markers listed within Tables 1-4, as well as any  
25 known markers in combination with the markers set forth within Tables 1-4, may be used in the compositions, kits, and methods of the present invention. In general, it is preferable to use markers for which the difference between the level of expression of the marker in cervical cancer cells and the level of expression of the same marker in normal cervical cells is as great as possible. Although this difference can be as small as the  
30 limit of detection of the method for assessing expression of the marker, it is preferred that the difference be at least greater than the standard error of the assessment method,

and preferably a difference of at least 2-, 3-, 4-, 5-, 6-, 7-, 8-, 9-, 10-, 15-, 20-, 25-, 100-, 500-, 1000-fold or greater.

It will be appreciated that patient samples containing cervical cells may be used in the methods of the present invention. In these embodiments, the level of expression  
5 of the marker can be assessed by assessing the amount (*e.g.* absolute amount or concentration) of the marker in a cervical cell sample, *e.g.*, cervical smear, obtained from a patient. The cell sample can, of course, be subjected to a variety of well-known post-collection preparative and storage techniques (*e.g.* storage, freezing, ultrafiltration, concentration, evaporation, centrifugation, etc.) prior to assessing the amount of the  
10 marker in the sample. Likewise cervical smears may also be subjected to post-collection preparative and storage techniques, *e.g.*, fixation.

It will also be appreciated that certain markers correspond to proteins or fragments thereof, which are secreted from cervical cells (*i.e.* one or both of normal and cancerous cells) to the extracellular space surrounding the cells. These markers are  
15 preferably used in certain embodiments of the compositions, kits, and methods of the invention, owing to the fact that the protein or fragment thereof, corresponding to each of these markers can be detected in a cervical-associated body fluid sample. In addition, preferred *in vivo* techniques for detection of a protein or fragment thereof, corresponding to a marker of the invention include introducing into a subject a labeled antibody  
20 directed against the protein or fragment of the protein. For example, the antibody can be labeled with a radioactive marker whose presence and location in a subject can be detected by standard imaging techniques.

Although not every marker corresponding to a secreted protein is indicated as such herein, it is a simple matter for the skilled artisan to determine whether any  
25 particular marker corresponds to a secreted protein. In order to make this determination, the protein corresponding to a marker is expressed in a test cell (*e.g.* a cell of a cervical cell line), extracellular fluid is collected, and the presence or absence of the protein in the extracellular fluid is assessed (*e.g.* using a labeled antibody which binds specifically with the protein).

The following is an example of a method which can be used to detect secretion of a protein corresponding to a marker of the invention. About  $8 \times 10^5$  293T cells are incubated at 37°C in wells containing growth medium (Dulbecco's modified Eagle's medium {DMEM} supplemented with 10% fetal bovine serum) under a 5% (v/v) CO<sub>2</sub>, 95% air atmosphere to about 60-70% confluence. The cells are then transfected using a standard transfection mixture comprising 2 micrograms of DNA comprising an expression vector encoding the protein and 10 microliters of LipofectAMINE™ (GIBCO/BRL Catalog no. 18342-012) per well. The transfection mixture is maintained for about 5 hours, and then replaced with fresh growth medium and maintained in an air atmosphere. Each well is gently rinsed twice with DMEM which does not contain methionine or cysteine (DMEM-MC; ICN Catalog no. 16-424-54). About 1 milliliter of DMEM-MC and about 50 microcuries of Trans-<sup>35</sup>S™ reagent (ICN Catalog no. 51006) are added to each well. The wells are maintained under the 5% CO<sub>2</sub> atmosphere described above and incubated at 37°C for a selected period. Following incubation, 150 microliters of conditioned medium is removed and centrifuged to remove floating cells and debris. The presence of the protein in the supernatant is an indication that the protein is secreted.

Examples of cervical-associated body fluids include blood fluids (*e.g.* whole blood, blood serum, blood having platelets removed therefrom, etc.), lymph, ascitic fluids, gynecological fluids (*e.g.* cervix, fallopian, and uterine secretions, menses, vaginal douching fluids, fluids used to rinse cervical cell samples, etc.), cystic fluid, urine, and fluids collected by peritoneal rinsing (*e.g.* fluids applied and collected during laparoscopy or fluids instilled into and withdrawn from the peritoneal cavity of a human patient).

Many cervical-associated body fluids can have cervical cells therein, particularly when the cervical cells are cancerous, and, more particularly, when the cervical cancer is metastasizing. Cell-containing fluids which can contain cervical cancer cells include, but are not limited to, peritoneal ascites, fluids collected by peritoneal rinsing, fluids collected by uterine rinsing, uterine fluids such as uterine exudate and menses, pleural fluid, and cervical exudates. Thus, the compositions, kits, and methods of the invention can be used to detect expression of markers corresponding to proteins or fragments thereof, having at least one portion which is displayed on the surface of cells which

express it. Although the proteins having at least one cell-surface portion are not set forth herein, it is a simple matter for the skilled artisan to determine whether the protein corresponding to any particular marker comprises a cell-surface protein. For example, immunological methods may be used to detect such proteins on whole cells, or well known computer-based sequence analysis methods (e.g. the SIGNALP program; Nielsen *et al.*, 1997, *Protein Engineering* 10:1-6) may be used to predict the presence of at least one extracellular domain (*i.e.* including both secreted proteins and proteins having at least one cell-surface domain). Expression of a marker corresponding to a protein or fragment thereof, having at least one portion which is displayed on the surface of a cell which expresses it may be detected without necessarily lysing the cell (e.g. using a labeled antibody which binds specifically with a cell-surface domain of the protein).

Expression of a marker of the invention may be assessed by any of a wide variety of well known methods for detecting expression of a transcribed molecule or protein. Non-limiting examples of such methods include immunological methods for detection of secreted, cell-surface, cytoplasmic, or nuclear proteins, protein purification methods, protein function or activity assays, nucleic acid hybridization methods, nucleic acid reverse transcription methods, and nucleic acid amplification methods. *In situ* hybridization (ISH) and immunohistochemistry (IHC) methods are preferred.

In another preferred embodiment, expression of a marker is assessed using an antibody (e.g. a radio-labeled, chromophore-labeled, fluorophore-labeled, or enzyme-labeled antibody), an antibody derivative (e.g. an antibody conjugated with a substrate or with the protein or ligand of a protein-ligand pair {e.g. biotin-streptavidin} ), or an antibody fragment (e.g. a single-chain antibody, an isolated antibody hypervariable domain, etc.) which binds specifically with a protein or fragment thereof, corresponding to the marker, such as the protein encoded by the open reading frame corresponding to the marker or such a protein which has undergone all or a portion of its normal post-translational modification.

In yet another preferred embodiment, expression of a marker is assessed by preparing mRNA/cDNA (*i.e.* a transcribed polynucleotide) from cells in a patient sample, and by hybridizing the mRNA/cDNA with a reference polynucleotide which is a complement of a polynucleotide comprising the marker, and fragments thereof. cDNA can, optionally, be amplified using any of a variety of polymerase chain reaction



methods prior to hybridization with the reference polynucleotide. Expression of one or more markers can likewise be detected using quantitative PCR to assess the level of expression of the marker(s). Alternatively, any of the many known methods of detecting mutations or variants (*e.g.* single nucleotide polymorphisms, deletions, etc.) of a marker

5 of the invention may be used to detect occurrence of a marker in a patient.

In a related embodiment, a mixture of transcribed polynucleotides obtained from the sample is contacted with a substrate having fixed thereto a polynucleotide complementary to or homologous with at least a portion (*e.g.* at least 7, 10, 15, 20, 25, 30, 40, 50, 100, 500, or more nucleotide residues) of a marker of the invention. If

10 polynucleotides complementary to or homologous with are differentially detectable on the substrate (*e.g.* detectable using different chromophores or fluorophores, or fixed to different selected positions), then the levels of expression of a plurality of markers can be assessed simultaneously using a single substrate (*e.g.* a "gene chip" microarray of polynucleotides fixed at selected positions). When a method of assessing marker

15 expression is used which involves hybridization of one nucleic acid with another, it is preferred that the hybridization be performed under stringent hybridization conditions.

Because the compositions, kits, and methods of the invention rely on detection of a difference in expression levels of one or more markers of the invention, it is preferable that the level of expression of the marker is significantly greater than the minimum

20 detection limit of the method used to assess expression in at least one of normal cervical cells and cancerous cervical cells.

It is understood that by routine screening of additional patient samples using one or more of the markers of the invention, it will be realized that certain of the markers are over- (or under-)expressed in cancers of various types, including specific cervical

25 cancers, as well as other cancers such as ovarian cancer, breast cancer, etc. For example, it will be confirmed that some of the markers of the invention are over-expressed in most (*i.e.* 50% or more) or substantially all (*i.e.* 80% or more) of cervical cancer. Furthermore, it will be confirmed that certain of the markers of the invention are associated with cervical cancer of various stages (*i.e.* stage 0, I, II, III, and IV cervical

30 cancers, as well as subclassifications IA1, IA2, IB, IB1, IB2, IIA, IIB, IIIA, IIIB, IVA, and IVB, using the FIGO Stage Grouping system for primary carcinoma of the cervix (see Gynecologic Oncology, 1991, 41:199 and Cancer, 1992, 69:482)), of various

histologic subtypes (e.g. squamous cell carcinomas and squamous cell carcinoma variants such as verrucous carcinoma, lymphoepithelioma-like carcinoma, papillary squamous neoplasm and spindle cell squamous cell carcinoma (see *Cervical Cancer and Preinvasive Neoplasia*, 1996, pp. 90-91), serous, mucinous, endometrioid, and clear cell subtypes, as well as subclassifications and alternate classifications adenocarcinoma, papillary adenocarcinoma, papillary cystadenocarcinoma, surface papillary carcinoma, malignant adenofibroma, cystadenofibroma, adenocarcinoma, cystadenocarcinoma, adenoacanthoma, endometrioid stromal sarcoma, mesodermal {Müllerian} mixed tumor, malignant carcinoma, Brenner tumor, mixed epithelial tumor, and undifferentiated carcinoma, using the WHO/FIGO system for classification of malignant cervical tumors; Scully, *Atlas of Tumor Pathology*, 3d series, Washington DC), and various grades (i.e. grade I {well differentiated} , grade II {moderately well differentiated}, and grade III {poorly differentiated from surrounding normal tissue} ). In addition, as a greater number of patient samples are assessed for expression of the markers of the invention and the outcomes of the individual patients from whom the samples were obtained are correlated, it will also be confirmed that altered expression of certain of the markers of the invention are strongly correlated with malignant cancers and that altered expression of other markers of the invention are strongly correlated with benign tumors. The compositions, kits, and methods of the invention are thus useful for characterizing one or more of the stage, grade, histological type, and benign/malignant nature of cervical cancer in patients.

When the compositions, kits, and methods of the invention are used for characterizing one or more of the stage, grade, histological type, and benign/malignant nature of cervical cancer in a patient, it is preferred that the marker or panel of markers of the invention is selected such that a positive result is obtained in at least about 20%, and preferably at least about 40%, 60%, or 80%, and more preferably in substantially all patients afflicted with a cervical cancer of the corresponding stage, grade, histological type, or benign/malignant nature. Preferably, the marker or panel of markers of the invention is selected such that a positive predictive value (PPV) of greater than about 10% is obtained for the general population (more preferably coupled with an assay specificity greater than 99.5%).

When a plurality of markers of the invention are used in the compositions, kits, and methods of the invention, the level of expression of each marker in a patient sample can be compared with the normal level of expression of each of the plurality of markers in non-cancerous samples of the same type, either in a single reaction mixture (*i.e.* using  
 5 reagents, such as different fluorescent probes, for each marker) or in individual reaction mixtures corresponding to one or more of the markers. In one embodiment, a significantly enhanced level of expression of more than one of the plurality of markers in the sample, relative to the corresponding normal levels, is an indication that the patient is afflicted with cervical cancer. When a plurality of markers is used, it is  
 10 preferred that 2, 3, 4, 5, 8, 10, 12, 15, 20, 30, or 50 or more individual markers be used, wherein fewer markers are preferred.

In order to maximize the sensitivity of the compositions, kits, and methods of the invention (*i.e.* by interference attributable to cells of non-cervical origin in a patient sample), it is preferable that the marker of the invention used therein be a marker which  
 15 has a restricted tissue distribution, *e.g.*, normally not expressed in non-cervical tissue.

Only a small number of markers are known to be associated with cervical cancers (*e.g.* bcl-2, 15A8 antigen, cdc6, Mcm5, and EGFR). These markers are not, of course, included among the markers of the invention, although they may be used together with one or more markers of the invention in a panel of markers, for example.  
 20 It is well known that certain types of genes, such as oncogenes, tumor suppressor genes, growth factor-like genes, protease-like genes, and protein kinase-like genes are often involved with development of cancers of various types. Thus, among the markers of the invention, use of those which correspond to proteins which resemble known proteins encoded by known oncogenes and tumor suppressor genes, and those which correspond  
 25 to proteins which resemble growth factors, proteases, and protein kinases are preferred.

Known oncogenes and tumor suppressor genes include, for example, *abl*, *abr*, *akt2*, *apc*, *bcl2 $\alpha$* , *bcl2 $\beta$* , *bcl3*, *bcr*, *brca1*, *brca2*, *cbl*, *ccnd1*, *cdc42*, *cdk4*, *crk- II*, *csfl1r/fms*, *dbl*, *dcc*, *dpc4/smad4*, *e-cad*, *e2f1/rbap*, *egfr/erbB-1*, *elk1*, *elk3*, *epb*, *erg*, *ets1*, *ets2*, *fer*, *fgr/src2*, *flil/ergb2*, *fos*, *fps/fes*, *fra1*, *fra2*, *fyn*, *hck*, *hek*, *her2/erbB- 2/neu*,  
 30 *her3/erbB-3*, *her4/erbB-4*, *hras1*, *hst2*, *hstf1*, *igfbp2*, *ink4a*, *ink4b*, *int2/fgf3*, *jun*, *junb*, *jund*, *kip2*, *kit*, *kras2a*, *kras2b*, *lck*, *lyn*, *mas*, *max*, *mcc*, *mdm2*, *met*, *mlh1*, *mmp10*, *mos*, *msh2*, *msh3*, *msh6*, *myb*, *myba*, *mybb*, *myc*, *mycl1*, *mycn*, *nf1*, *nf2*, *nme2*, *nras*, *p53*,

*pdgfb, phb, pim1, pms1, pms2, ptc, pten, raf1, rap1a, rbl, rel, ret, ros1, ski, src1, tall, tgfb2, tgfb3, tgfb3, thral, thrb, tiam1, timp3, tjp1, tp53, trk, vav, vhl, vil2, waf1, wnt1, wnt2, wt1, and yes1* (Hesketh, 1997, In: *The Oncogene and Tumour Suppressor Gene Facts Book*, 2nd Ed., Academic Press; Fishel *et al.*, 1994, *Science* 266:1403-1405).

5 Known growth factors include platelet-derived growth factor alpha, platelet-derived growth factor beta (simian sarcoma viral {v-sis} oncogene homolog), thrombopoietin (myeloproliferative leukemia virus oncogene ligand, megakaryocyte growth and development factor), erythropoietin, B cell growth factor, macrophage stimulating factor 1 (hepatocyte growth factor-like protein), hepatocyte growth factor  
10 (hepapoietin A), insulin-like growth factor 1 (somatomedia C), hepatoma-derived growth factor, amphiregulin (schwannoma-derived growth factor), bone morphogenetic proteins 1, 2, 3, 3 beta, and 4, bone morphogenetic protein 7 (osteogenic protein 1), bone morphogenetic protein 8 (osteogenic protein 2), connective tissue growth factor, connective tissue activation peptide 3, epidermal growth factor (EGF), teratocarcinoma-  
15 derived growth factor 1, endothelin, endothelin 2, endothelin 3, stromal cell-derived factor 1, vascular endothelial growth factor (VEGF), VEGF-B, VEGF-C, placental growth factor (vascular endothelial growth factor-related protein), transforming growth factor alpha, transforming growth factor beta 1 and its precursors, transforming growth factor beta 2 and its precursors, fibroblast growth factor 1 (acidic), fibroblast growth  
20 factor 2 (basic), fibroblast growth factor 5 and its precursors, fibroblast growth factor 6 and its precursors, fibroblast growth factor 7 (keratinocyte growth factor), fibroblast growth factor 8 (androgen-induced), fibroblast growth factor 9 (glia-activating factor), pleiotrophin (heparin binding growth factor 8, neurite growth-promoting factor 1), brain-derived neurotrophic factor, and recombinant glial growth factor 2.

25 Known proteases include interleukin-1 beta convertase and its precursors, Mch6 and its precursors, Mch2 isoform alpha, Mch4, Cpp32 isoform alpha, Lice2 gamma cysteine protease, Ich-1S, Ich-1L, Ich-2 and its precursors, TY protease, matrix metalloproteinase 1 (interstitial collagenase), matrix metalloproteinase 2 (gelatinase A, 72kD gelatinase, 72kD type IV collagenase), matrix metalloproteinase 7 (matrilysin),  
30 matrix metalloproteinase 8 (neutrophil collagenase), matrix metalloproteinase 12 (macrophage elastase), matrix metalloproteinase 13 (collagenase 3), metalloproteinase 1, cysteine-rich metalloproteinase (disintegrin) and its precursors, subtilisin-like protease Pc8

and its precursors, chymotrypsin, snake venom-like protease, cathepsin I, cathepsin D (lysosomal aspartyl protease), stromelysin, aminopeptidase N, plasminogen, tissue plasminogen activator, plasminogen activator inhibitor type II, and urokinase-type plasminogen activator.

- 5 Known protein kinases include DAP kinase, serine/threonine protein kinases NIK, PK428, Krs-2, SAK, and EMK, interferon-inducible double stranded RNA dependent protein kinase, FAST kinase, AIM1, IPL1-like midbody-associated protein kinase-1, NIMA-like protein kinase 1 (NLK1), the cyclin-dependent kinases (cdk1-10), checkpoint kinase Chk1, Nek3 protein kinase, BMK1 beta kinase, Clk1, Clk2, Clk3,
- 10 extracellular signal-regulated kinases 1, 3, and 6, cdc28 protein kinase 1, cdc28 protein kinase 2, pLK, Myt1, c-Jun N-terminal kinase 2, Cam kinase 1, the MAP kinases, insulin-stimulated protein kinase 1, beta-adrenergic receptor kinase 2, ribosomal protein S6 kinase, kinase suppressor of ras-1 (KSR1), putative serine/threonine protein kinase Prk, PkB kinase, cAMP-dependent protein kinase, cGMP-dependent protein kinase, type
- 15 II cGMP-dependent protein kinase, protein kinases Dyrk2, Dyrk3, and Dyrk4, Rho-associated coiled-coil containing protein kinase p160ROCK, protein tyrosine kinase t-Ror1, Ste20-related kinases, cell adhesion kinase beta, protein kinase 3, stress-activated protein kinase 4, protein kinase Zpk, serine kinase hPAK65, dual specificity mitogen-activated protein kinases 1 and 2, casein kinase I gamma 2, p21-activated protein kinase
- 20 Pak1, lipid-activated protein kinase PRK2, focal adhesion kinase, dual-specificity tyrosine-phosphorylation regulated kinase, myosin light chain kinase, serine kinases SRPK2, TESK1, and VRK2, B lymphocyte serine/threonine protein kinase, stress-activated protein kinases JNK1 and JNK2, phosphorylase kinase, protein tyrosine kinase Tec, Jak2 kinase, protein kinase Ndr, MEK kinase 3, SHB adaptor protein (a Src
- 25 homology 2 protein), agammaglobulinaemia protein-tyrosine kinase (Atk), protein kinase ATR, guanylate kinase 1, thrombopoietin receptor and its precursors, DAG kinase epsilon, and kinases encoded by oncogenes or viral oncogenes such as v-fgr (Gardner-Rasheed), v-abl (Abelson murine leukemia viral oncogene homolog 1), v-arg (Abelson murine leukemia viral oncogene homolog, Abelson-related gene), v-fes and v-
- 30 fps (feline sarcoma viral oncogene and Fujinami avian sarcoma viral oncogene homologs), proto-oncogene *c-cot*, oncogene *pim-1*, and oncogene *mas1*.

It is recognized that the compositions, kits, and methods of the invention will be of particular utility to patients having an enhanced risk of developing cervical cancer and their medical advisors. Patients recognized as having an enhanced risk of developing cervical cancer include, for example, patients having a familial history of cervical cancer, patients identified as having a mutant oncogene (*i.e.* at least one allele), and patients determined through any other established medical criteria to be at risk for cancer or other malignancy.

The level of expression of a marker in normal (*i.e.* non-cancerous) human cervical tissue can be assessed in a variety of ways. In one embodiment, this normal level of expression is assessed by assessing the level of expression of the marker in a portion of cervical cells which appears to be non-cancerous and by comparing this normal level of expression with the level of expression in a portion of the cervical cells which is suspected of being cancerous. For example, the normal level of expression of a marker may be assessed using a non-affected portion of the cervix and this normal level of expression may be compared with the level of expression of the same marker in an affected portion of the cervix. Alternately, and particularly as further information becomes available as a result of routine performance of the methods described herein, population-average values for normal expression of the markers of the invention may be used. In other embodiments, the 'normal' level of expression of a marker may be determined by assessing expression of the marker in a patient sample obtained from a non-cancer-afflicted patient, from a patient sample obtained from a patient before the suspected onset of cervical cancer in the patient, from archived patient samples, and the like.

The invention includes compositions, kits, and methods for assessing the presence of cervical cancer cells in a sample (*e.g.* an archived tissue sample or a sample obtained from a patient). These compositions, kits, and methods are substantially the same as those described above, except that, where necessary, the compositions, kits, and methods are adapted for use with samples other than patient samples. For example, when the sample to be used is a paraffinized, archived human tissue sample, it can be necessary to adjust the ratio of compounds in the compositions of the invention, in the kits of the invention, or the methods used to assess levels of marker expression in the

sample. Such methods are well known in the art and within the skill of the ordinary artisan.

The invention includes a kit for assessing the presence of cervical cancer cells (e.g. in a sample such as a patient sample). The kit comprises a plurality of reagents, each of which is capable of binding specifically with a nucleic acid or polypeptide corresponding to a marker of the invention. Suitable reagents for binding with a polypeptide corresponding to a marker of the invention include antibodies, antibody derivatives, antibody fragments, and the like. Suitable reagents for binding with a nucleic acid (e.g. a genomic DNA, an mRNA, a spliced mRNA, a cDNA, or the like) include complementary nucleic acids. For example, the nucleic acid reagents may include oligonucleotides (labeled or non-labeled) fixed to a substrate, labeled oligonucleotides not bound with a substrate, pairs of PCR primers, molecular beacon probes, and the like.

The kit of the invention may optionally comprise additional components useful for performing the methods of the invention. By way of example, the kit may comprise fluids (e.g. SSC buffer) suitable for annealing complementary nucleic acids or for binding an antibody with a protein with which it specifically binds, one or more sample compartments, an instructional material which describes performance of a method of the invention, a sample of normal cervical cells, a sample of cervical cancer cells, and the like.

The invention also includes a method of making an isolated hybridoma which produces an antibody useful for assessing whether a patient is afflicted with cervical cancer. In this method, a protein corresponding to a marker of the invention is isolated (e.g. by purification from a cell in which it is expressed or by transcription and translation of a nucleic acid encoding the protein *in vivo* or *in vitro* using known methods). A vertebrate, preferably a mammal such as a mouse, rat, rabbit, or sheep, is immunized using the isolated protein or protein fragment. The vertebrate may optionally (and preferably) be immunized at least one additional time with the isolated protein or protein fragment, so that the vertebrate exhibits a robust immune response to the protein or protein fragment. Splenocytes are isolated from the immunized vertebrate and fused with an immortalized cell line to form hybridomas, using any of a variety of methods well known in the art. Hybridomas formed in this manner are then screened

using standard methods to identify one or more hybridomas which produce an antibody which specifically binds with the protein or protein fragment. The invention also includes hybridomas made by this method and antibodies made using such hybridomas.

The invention also includes a method of assessing the efficacy of a test compound for inhibiting cervical cancer cells. As described above, differences in the level of expression of the markers of the invention correlate with the cancerous state of cervical cells. Although it is recognized that changes in the levels of expression of certain of the markers of the invention likely result from the cancerous state of cervical cells, it is likewise recognized that changes in the levels of expression of other of the markers of the invention induce, maintain, and promote the cancerous state of those cells. Thus, compounds which inhibit cervical cancer in a patient will cause the level of expression of one or more of the markers of the invention to change to a level nearer the normal level of expression for that marker (*i.e.* the level of expression for the marker in non-cancerous cervical cells).

This method thus comprises comparing expression of a marker in a first cervical cell sample and maintained in the presence of the test compound and expression of the marker in a second cervical cell sample and maintained in the absence of the test compound. A significant decrease in the level of expression of a marker listed within Tables 1-4 is an indication that the test compound inhibits cervical cancer. The cervical cell samples may, for example, be aliquots of a single sample of normal cervical cells obtained from a patient, pooled samples of normal cervical cells obtained from a patient, cells of a normal cervical cell line, aliquots of a single sample of cervical cancer cells obtained from a patient, pooled samples of cervical cancer cells obtained from a patient, cells of a cervical cancer cell line, or the like. In one embodiment, the samples are cervical cancer cells obtained from a patient and a plurality of compounds known to be effective for inhibiting various cervical cancers are tested in order to identify the compound which is likely to best inhibit the cervical cancer in the patient.

This method may likewise be used to assess the efficacy of a therapy for inhibiting cervical cancer in a patient. In this method, the level of expression of one or more markers of the invention in a pair of samples (one subjected to the therapy, the other not subjected to the therapy) is assessed. As with the method of assessing the efficacy of test compounds, if the therapy induces a significant decrease in the level of



expression of a marker listed within Tables 1-4, or blocks induction of a marker listed within Tables 1-4, then the therapy is efficacious for inhibiting cervical cancer. As above, if samples from a selected patient are used in this method, then alternative therapies can be assessed *in vitro* in order to select a therapy most likely to be  
5 efficacious for inhibiting cervical cancer in the patient.

As described herein, cervical cancer in patients is associated with an increase in the level of expression of one or more markers listed within Tables 1-4. While, as discussed above, some of these changes in expression level result from occurrence of the cervical cancer, others of these changes induce, maintain, and promote the cancerous  
10 state of cervical cancer cells. Thus, cervical cancer characterized by an increase in the level of expression of one or more markers listed within Tables 1-4 can be controlled or suppressed by inhibiting expression of those markers.

Expression of a marker listed within Tables 1-4 can be inhibited in a number of ways generally known in the art. For example, an antisense oligonucleotide can be  
15 provided to the cervical cancer cells in order to inhibit transcription, translation, or both, of the marker(s). Alternately, a polynucleotide encoding an antibody, an antibody derivative, or an antibody fragment, and operably linked with an appropriate promoter/regulator region, can be provided to the cell in order to generate intracellular antibodies which will inhibit the function or activity of the protein corresponding to the  
20 marker(s). Using the methods described herein, a variety of molecules, particularly including molecules sufficiently small that they are able to cross the cell membrane, can be screened in order to identify molecules which inhibit expression of the marker(s). The compound so identified can be provided to the patient in order to inhibit expression of the marker(s) in the cervical cancer cells of the patient.

25 As described above, the cancerous state of human cervical cells is correlated with changes in the levels of expression of the markers of the invention. Thus, compounds which induce increased expression of one or more of the markers listed within Tables 1-4 can induce cervical cell carcinogenesis. The invention thus includes a method for assessing the human cervical cell carcinogenic potential of a test compound.  
30 This method comprises maintaining separate aliquots of human cervical cells in the presence and absence of the test compound. Expression of a marker of the invention in each of the aliquots is compared. A significant increase in the level of expression of a

marker listed within Tables 1-4 in the aliquot maintained in the presence of the test compound (relative to the aliquot maintained in the absence of the test compound) is an indication that the test compound possesses human cervical cell carcinogenic potential. The relative carcinogenic potentials of various test compounds can be assessed by  
5 comparing the degree of enhancement or inhibition of the level of expression of the relevant markers, by comparing the number of markers for which the level of expression is enhanced or inhibited, or by comparing both.

Various aspects of the invention are described in further detail in the following subsections.

10

#### I. Isolated Nucleic Acid Molecules

One aspect of the invention pertains to novel isolated nucleic acid molecules that correspond to a marker of the invention, including nucleic acids which encode a polypeptide corresponding to a marker of the invention or a portion of such a  
15 polypeptide. Isolated nucleic acids of the invention also include nucleic acid molecules sufficient for use as hybridization probes to identify nucleic acid molecules that correspond to a marker of the invention, including nucleic acids which encode a polypeptide corresponding to a marker of the invention, and fragments of such nucleic acid molecules, *e.g.*, those suitable for use as PCR primers for the amplification or  
20 mutation of nucleic acid molecules. As used herein, the term "nucleic acid molecule" is intended to include DNA molecules (*e.g.*, cDNA or genomic DNA) and RNA molecules (*e.g.*, mRNA) and analogs of the DNA or RNA generated using nucleotide analogs. The nucleic acid molecule can be single-stranded or double-stranded, but preferably is double-stranded DNA.

25 An "isolated" nucleic acid molecule is one which is separated from other nucleic acid molecules which are present in the natural source of the nucleic acid molecule. Preferably, an "isolated" nucleic acid molecule is free of sequences (preferably protein-encoding sequences) which naturally flank the nucleic acid (*i.e.*, sequences located at the 5' and 3' ends of the nucleic acid) in the genomic DNA of the organism from which the  
30 nucleic acid is derived. For example, in various embodiments, the isolated nucleic acid molecule can contain less than about 5 kB, 4 kB, 3 kB, 2 kB, 1 kB, 0.5 kB or 0.1 kB of nucleotide sequences which naturally flank the nucleic acid molecule in genomic DNA

of the cell from which the nucleic acid is derived. Moreover, an "isolated" nucleic acid molecule, such as a cDNA molecule, can be substantially free of other cellular material, or culture medium when produced by recombinant techniques, or substantially free of chemical precursors or other chemicals when chemically synthesized.

5           A nucleic acid molecule of the present invention, *e.g.*, a nucleic acid encoding a protein corresponding to a marker listed in Tables 1-4, can be isolated using standard molecular biology techniques and the sequence information described herein. Using all or a portion of such nucleic acid sequences, nucleic acid molecules of the invention can be isolated using standard hybridization and cloning techniques (*e.g.*, as described in  
10   Sambrook *et al.*, ed., *Molecular Cloning: A Laboratory Manual*, 2nd ed., Cold Spring Harbor Laboratory Press, Cold Spring Harbor, NY, 1989).

          A process for identifying a larger fragment or the full-length coding sequence of a marker of the present invention is thus also provided. Any conventional recombinant DNA techniques applicable for isolating polynucleotides may be employed. One such  
15   method involves the 5'-RACE-PCR technique, in which the poly-A mRNA that contains the coding sequence of particular interest is first reverse transcribed with a 3'-primer comprising a sequence disclosed herein. The newly synthesized cDNA strand is then tagged with an anchor primer with a known sequence, which preferably contains a convenient cloning restriction site attached at the 5' end. The tagged cDNA is then  
20   amplified with the 3'-primer (or a nested primer sharing sequence homology to the internal sequences of the coding region) and the 5'-anchor primer. The amplification may be conducted under conditions of various levels of stringency to optimize the amplification specificity. 5'-RACE-PCR can be readily performed using commercial kits (available from, *e.g.*, BRL Life Technologies Inc., Clontech) according to the  
25   manufacturer's instructions.

          Isolating the complete coding sequence of a gene can also be carried out in a hybridization assay using a suitable probe. The probe preferably comprises at least 10 nucleotides, and more preferably exhibits sequence homology to the polynucleotides of the markers of the present invention. Other high throughput screens for cDNAs, such as  
30   those involving gene chip technology, can also be employed in obtaining the complete cDNA sequence.

In addition, databases exist that reduce the complexity of ESTs by assembling contiguous EST sequences into tentative genes. For example, TIGR has assembled human ESTs into a database called THC for tentative human consensus sequences. The THC database allows for a more definitive assignment compared to ESTs alone.

5 Software programs exist (TIGR assembler and TIGEM EST assembly machine and contig assembly program (see Huang, X . , 1996, *Genomes* 33:21-23)) that allow for assembling ESTs into contiguous sequences from any organism.

Alternatively, mRNA from a sample preparation is used to construct cDNA library in the ZAP Express vector following the procedure described in Velculescu *et al.*, 1997, *Science* 270:484. The ZAP Express cDNA synthesis kit (Stratagene) is used

10 accordingly to the manufacturer's protocol. Plates containing 250 to 2000 plaques are hybridized as described in Rupert *et al.*, 1988, *Mol. Cell. Bio.* 8:3104 to oligonucleotide probes with the same conditions previously described for standard probes except that the hybridization temperature is reduced to a room temperature. Washes are performed in

15 6X standard-saline-citrate 0.1% SDS for 30 minutes at room temperature. The probes are labeled with <sup>32</sup>P-ATP through use of T4 polynucleotide kinase.

A partial cDNA (3' fragment) can be isolated by 3' directed PCR reaction. This procedure is a modification of the protocol described in Polyak *et al.*, 1997, *Nature* 389:300. Briefly, the procedure uses SAGE tags in PCR reaction such that the resultant

20 PCR product contains the SAGE tag of interest as well as additional cDNA, the length of which is defined by the position of the tag with respect to the 3' end of the cDNA. The cDNA product derived from such a transcript driven PCR reaction can be used for many applications.

RNA from a source to express the cDNA corresponding to a given tag is first

25 converted to double-stranded cDNA using any standard cDNA protocol. Similar conditions used to generate cDNA for SAGE library construction can be employed except that a modified oligo-dT primer is used to derive the first strand synthesis. For example, the oligonucleotide of composition 5'-B-TCC GGC GCG CCG TTT TCC CAG TCA CGA(30)-3', contains a poly-T stretch at the 3' end for hybridization and

30 priming from poly-A tails, an M13 priming site for use in subsequent PCR steps, a 5' Biotin label (B) for capture to strepavidin-coated magnetic beads, and an *Ascl* restriction endonuclease site for releasing the cDNA from the strepavidin-coated magnetic beads.

- 30 -

Theoretically, any sufficiently-sized DNA region capable of hybridizing to a PCR primer can be used as well as any other 8 base pair recognizing endonuclease.

cDNA constructed utilizing this or similar modified oligo-dT primer is then processed as described in U.S. Patent No. 5,695,937 up until adapter ligation where only one adapter is ligated to the cDNA pool. After adapter ligation, the cDNA is released from the streptavidin-coated magnetic beads and is then used as a template for cDNA amplification.

Various PCR protocols can be employed using PCR priming sites within the 3' modified oligo-dT primer and the SAGE tag. The SAGE tag-derived PCR primer employed can be of varying length dictated by 5' extension of the tag into the adaptor sequence. cDNA products are now available for a variety of applications.

This technique can be further modified by: (1) altering the length and/or content of the modified oligo-dT primer; (2) ligating adaptors other than that previously employed within the SAGE protocol; (3) performing PCR from template retained on the streptavidin-coated magnetic beads; and (4) priming first strand cDNA synthesis with non-oligo-dT based primers.

Gene trapper technology can also be used. The reagents and manufacturer's instructions for this technology are commercially available from Life Technologies, Inc., Gaithersburg, Maryland. Briefly, a complex population of single-stranded phagemid DNA containing directional cDNA inserts is enriched for the target sequence by hybridization in solution to a biotinylated oligonucleotide probe complementary to the target sequence. The hybrids are captured on streptavidin-coated paramagnetic beads. A magnet retrieves the paramagnetic beads from the solution, leaving nonhybridized single-stranded DNAs behind. Subsequently, the captured single-stranded DNA target is released from the biotinylated oligonucleotide. After release, the cDNA clone is further enriched by using a nonbiotinylated target oligonucleotide to specifically prime conversion of the single-stranded DNA. Following transformation and plating, typically 20% to 100% of the colonies represent the cDNA clone of interest. To identify the desired cDNA clone, the colonies may be screened by colony hybridization using the <sup>32</sup>P-labeled oligonucleotide, or alternatively by DNA sequencing and alignment of all sequences obtained from numerous clones to determine a consensus sequence.

A nucleic acid molecule of the invention can be amplified using cDNA, mRNA, or genomic DNA as a template and appropriate oligonucleotide primers according to standard PCR amplification techniques. The nucleic acid so amplified can be cloned into an appropriate vector and characterized by DNA sequence analysis. Furthermore, 5 oligonucleotides corresponding to all or a portion of a nucleic acid molecule of the invention can be prepared by standard synthetic techniques, *e.g.*, using an automated DNA synthesizer.

In another preferred embodiment, an isolated nucleic acid molecule of the invention comprises a nucleic acid molecule which has a nucleotide sequence 10 complementary to the nucleotide sequence of a nucleic acid corresponding to a marker of the invention or to the nucleotide sequence of a nucleic acid encoding a protein which corresponds to a marker of the invention. A nucleic acid molecule which is complementary to a given nucleotide sequence is one which is sufficiently complementary to the given nucleotide sequence that it can hybridize to the given 15 nucleotide sequence thereby forming a stable duplex.

Moreover, a nucleic acid molecule of the invention can comprise only a portion of a nucleic acid sequence, wherein the full length nucleic acid sequence comprises a marker of the invention or which encodes a polypeptide corresponding to a marker of the invention. Such nucleic acids can be used, for example, as a probe or primer. The 20 probe/primer typically is used as one or more substantially purified oligonucleotides. The oligonucleotide typically comprises a region of nucleotide sequence that hybridizes under stringent conditions to at least about 7, preferably about 15, more preferably about 25, 50, 75, 100, 125, 150, 175, 200, 250, 300, 350, or 400 or more consecutive nucleotides of a nucleic acid of the invention.

25 Probes based on the sequence of a nucleic acid molecule of the invention can be used to detect transcripts or genomic sequences corresponding to one or more markers of the invention. The probe comprises a label group attached thereto, *e.g.*, a radioisotope, a fluorescent compound, an enzyme, or an enzyme co-factor. Such probes can be used as part of a diagnostic test kit for identifying cells or tissues which mis- 30 express the protein, such as by measuring levels of a nucleic acid molecule encoding the protein in a sample of cells from a subject, *e.g.*, detecting mRNA levels or determining whether a gene encoding the protein has been mutated or deleted.

The invention further encompasses nucleic acid molecules that differ, due to degeneracy of the genetic code, from the nucleotide sequence of nucleic acids encoding a protein which corresponds to a marker of the invention, and thus encode the same protein.

5           In addition to the nucleotide sequences described in the Tables, it will be appreciated by those skilled in the art that DNA sequence polymorphisms that lead to changes in the amino acid sequence can exist within a population (*e.g.*, the human population). Such genetic polymorphisms can exist among individuals within a population due to natural allelic variation. An allele is one of a group of genes which  
10           occur alternatively at a given genetic locus. In addition, it will be appreciated that DNA polymorphisms that affect RNA expression levels can also exist that may affect the overall expression level of that gene (*e.g.*, by affecting regulation or degradation).

As used herein, the phrase "allelic variant" refers to a nucleotide sequence which occurs at a given locus or to a polypeptide encoded by the nucleotide sequence.

15           As used herein, the terms "gene" and "recombinant gene" refer to nucleic acid molecules comprising an open reading frame encoding a polypeptide corresponding to a marker of the invention. Such natural allelic variations can typically result in 0.1-0.5% variance in the nucleotide sequence of a given gene. Alternative alleles can be identified by sequencing the gene of interest in a number of different individuals. This can be  
20           readily carried out by using hybridization probes to identify the same genetic locus in a variety of individuals. Any and all such nucleotide variations and resulting amino acid polymorphisms or variations that are the result of natural allelic variation and that do not alter the functional activity are intended to be within the scope of the invention.

In another embodiment, an isolated nucleic acid molecule of the invention is at  
25           least 7, 15, 20, 25, 30, 40, 60, 80, 100, 150, 200, 250, 300, 350, 400, 450, 550, 650, 700, 800, 900, 1000, 1200, 1400, 1600, 1800, 2000, 2200, 2400, 2600, 2800, 3000, 3500, 4000, 4500, or more nucleotides in length and hybridizes under stringent conditions to a nucleic acid corresponding to a marker of the invention or to a nucleic acid encoding a protein corresponding to a marker of the invention. As used herein, the term "hybridizes  
30           under stringent conditions" is intended to describe conditions for hybridization and washing under which nucleotide sequences at least 75% (80%, 85%, preferably 90%) identical to each other typically remain hybridized to each other. Such stringent

conditions are known to those skilled in the art and can be found in sections 6.3.1-6.3.6 of *Current Protocols in Molecular Biology*, John Wiley & Sons, N.Y. (1989). A preferred, non-limiting example of stringent hybridization conditions for annealing two single-stranded DNA each of which is at least about 100 bases in length and/or for  
5 annealing a single-stranded DNA and a single-stranded RNA each of which is at least about 100 bases in length, are hybridization in 6X sodium chloride/sodium citrate (SSC) at about 45°C, followed by one or more washes in 0.2X SSC, 0.1% SDS at 50-65°C. Further preferred hybridization conditions are taught in Lockhart, *et al.*, *Nature Biotechnology*, Volume 14, 1996 August:1675-1680; Breslauer, *et al.*, *Proc. Natl. Acad. Sci. USA*, Volume 83, 1986 June: 3746-3750; Van Ness, *et al.*, *Nucleic Acids Research*,  
10 Volume 19, No. 19, 1991 September: 5143-5151; McGraw, *et al.*, *BioTechniques*, Volume 8, No. 6 1990: 674-678; and Milner, *et al.*, *Nature Biotechnology*, Volume 15, 1997 June: 537-541, all expressly incorporated by reference.

In addition to naturally-occurring allelic variants of a nucleic acid molecule of  
15 the invention that can exist in the population, the skilled artisan will further appreciate that sequence changes can be introduced by mutation thereby leading to changes in the amino acid sequence of the encoded protein, without altering the biological activity of the protein encoded thereby. For example, one can make nucleotide substitutions leading to amino acid substitutions at "non-essential" amino acid residues. A "non-  
20 essential" amino acid residue is a residue that can be altered from the wild-type sequence without altering the biological activity, whereas an "essential" amino acid residue is required for biological activity. For example, amino acid residues that are not conserved or only semi-conserved among homologs of various species may be non-essential for activity and thus would be likely targets for alteration. Alternatively, amino  
25 acid residues that are conserved among the homologs of various species (*e.g.*, murine and human) may be essential for activity and thus would not be likely targets for alteration.

Accordingly, another aspect of the invention pertains to nucleic acid molecules encoding a polypeptide of the invention that contain changes in amino acid residues that  
30 are not essential for activity. Such polypeptides differ in amino acid sequence from the naturally-occurring proteins which correspond to the markers of the invention, yet retain biological activity. In one embodiment, such a protein has an amino acid sequence that



is at least about 40% identical, 50%, 60%, 70%, 80%, 90%, 95%, or 98% identical to the amino acid sequence of one of the proteins which correspond to the markers of the invention.

An isolated nucleic acid molecule encoding a variant protein can be created by  
5 introducing one or more nucleotide substitutions, additions or deletions into the nucleotide sequence of nucleic acids of the invention, such that one or more amino acid residue substitutions, additions, or deletions are introduced into the encoded protein. Mutations can be introduced by standard techniques, such as site-directed mutagenesis and PCR-mediated mutagenesis. Preferably, conservative amino acid substitutions are  
10 made at one or more predicted non-essential amino acid residues. A "conservative amino acid substitution" is one in which the amino acid residue is replaced with an amino acid residue having a similar side chain. Families of amino acid residues having similar side chains have been defined in the art. These families include amino acids with basic side chains (*e.g.*, lysine, arginine, histidine), acidic side chains (*e.g.*, aspartic  
15 acid, glutamic acid), uncharged polar side chains (*e.g.*, glycine, asparagine, glutamine, serine, threonine, tyrosine, cysteine), non-polar side chains (*e.g.*, alanine, valine, leucine, isoleucine, proline, phenylalanine, methionine, tryptophan), beta-branched side chains (*e.g.*, threonine, valine, isoleucine) and aromatic side chains (*e.g.*, tyrosine, phenylalanine, tryptophan, histidine). Alternatively, mutations can be introduced  
20 randomly along all or part of the coding sequence, such as by saturation mutagenesis, and the resultant mutants can be screened for biological activity to identify mutants that retain activity. Following mutagenesis, the encoded protein can be expressed recombinantly and the activity of the protein can be determined.

The present invention encompasses antisense nucleic acid molecules, *i.e.*,  
25 molecules which are complementary to a sense nucleic acid of the invention, *e.g.*, complementary to the coding strand of a double-stranded cDNA molecule corresponding to a marker of the invention or complementary to an mRNA sequence corresponding to a marker of the invention. Accordingly, an antisense nucleic acid of the invention can hydrogen bond to (*i.e.* anneal with) a sense nucleic acid of the  
30 invention. The antisense nucleic acid can be complementary to an entire coding strand, or to only a portion thereof, *e.g.*, all or part of the protein coding region (or open reading frame). An antisense nucleic acid molecule can also be antisense to all or part of a non-

coding region of the coding strand of a nucleotide sequence encoding a polypeptide of the invention. The non-coding regions ("5' and 3' untranslated regions") are the 5' and 3' sequences which flank the coding region and are not translated into amino acids.

An antisense oligonucleotide can be, for example, about 5, 10, 15, 20, 25, 30, 35, 40, 45, or 50 or more nucleotides in length. An antisense nucleic acid of the invention can be constructed using chemical synthesis and enzymatic ligation reactions using procedures known in the art. For example, an antisense nucleic acid (*e.g.*, an antisense oligonucleotide) can be chemically synthesized using naturally occurring nucleotides or variously modified nucleotides designed to increase the biological stability of the molecules or to increase the physical stability of the duplex formed between the antisense and sense nucleic acids, *e.g.*, phosphorothioate derivatives and acridine substituted nucleotides can be used. Examples of modified nucleotides which can be used to generate the antisense nucleic acid include 5-fluorouracil, 5-bromouracil, 5-chlorouracil, 5-iodouracil, hypoxanthine, xanthine, 4-acetylcytosine, 5-(carboxyhydroxymethyl) uracil, 5-carboxymethylaminomethyl-2-thiouridine, 5-carboxymethylaminomethyluracil, dihydrouracil, beta-D-galactosylqueosine, inosine, N6-isopentenyladenine, 1-methylguanine, 1-methylinosine, 2,2-dimethylguanine, 2-methyladenine, 2-methylguanine, 3-methylcytosine, 5-methylcytosine, N6-adenine, 7-methylguanine, 5-methylaminomethyluracil, 5-methoxyaminomethyl-2-thiouracil, beta-D-mannosylqueosine, 5'-methoxycarboxymethyluracil, 5-methoxyuracil, 2-methylthio-N6-isopentenyladenine, uracil-5-oxyacetic acid (v), wybutoxosine, pseudouracil, queosine, 2-thiocytosine, 5-methyl-2-thiouracil, 2-thiouracil, 4-thiouracil, 5-methyluracil, uracil-5-oxyacetic acid methylester, uracil-5-oxyacetic acid (v), 5-methyl-2-thiouracil, 3-(3-amino-3-N-2-carboxypropyl) uracil, (acp3)w, and 2,6-diaminopurine. Alternatively, the antisense nucleic acid can be produced biologically using an expression vector into which a nucleic acid has been sub-cloned in an antisense orientation (*i.e.*, RNA transcribed from the inserted nucleic acid will be of an antisense orientation to a target nucleic acid of interest, described further in the following subsection).

The antisense nucleic acid molecules of the invention are typically administered to a subject or generated *in situ* such that they hybridize with or bind to cellular mRNA and/or genomic DNA encoding a polypeptide corresponding to a selected marker of the

invention to thereby inhibit expression of the marker, *e.g.*, by inhibiting transcription and/or translation. The hybridization can be by conventional nucleotide complementarity to form a stable duplex, or, for example, in the case of an antisense nucleic acid molecule which binds to DNA duplexes, through specific interactions in the major groove of the double helix. Examples of a route of administration of antisense nucleic acid molecules of the invention includes direct injection at a tissue site or infusion of the antisense nucleic acid into a cervix-associated body fluid. Alternatively, antisense nucleic acid molecules can be modified to target selected cells and then administered systemically. For example, for systemic administration, antisense molecules can be modified such that they specifically bind to receptors or antigens expressed on a selected cell surface, *e.g.*, by linking the antisense nucleic acid molecules to peptides or antibodies which bind to cell surface receptors or antigens. The antisense nucleic acid molecules can also be delivered to cells using the vectors described herein. To achieve sufficient intracellular concentrations of the antisense molecules, vector constructs in which the antisense nucleic acid molecule is placed under the control of a strong pol II or pol III promoter are preferred.

An antisense nucleic acid molecule of the invention can be an  $\alpha$ -anomeric nucleic acid molecule. An  $\alpha$ -anomeric nucleic acid molecule forms specific double-stranded hybrids with complementary RNA in which, contrary to the usual  $\alpha$ -units, the strands run parallel to each other (Gaultier *et al.*, 1987, *Nucleic Acids Res.* 15:6625-6641). The antisense nucleic acid molecule can also comprise a 2'-*o*-methylribonucleotide (Inoue *et al.*, 1987, *Nucleic Acids Res.* 15:6131-6148) or a chimeric RNA-DNA analogue (Inoue *et al.*, 1987, *FEBS Lett.* 215:327-330).

The invention also encompasses ribozymes. Ribozymes are catalytic RNA molecules with ribonuclease activity which are capable of cleaving a single-stranded nucleic acid, such as an mRNA, to which they have a complementary region. Thus, ribozymes (*e.g.*, hammerhead ribozymes as described in Haselhoff and Gerlach, 1988, *Nature* 334:585-591) can be used to catalytically cleave mRNA transcripts to thereby inhibit translation of the protein encoded by the mRNA. A ribozyme having specificity for a nucleic acid molecule encoding a polypeptide corresponding to a marker of the invention can be designed based upon the nucleotide sequence of a cDNA corresponding to the marker. For example, a derivative of a *Tetrahymena* L-19 IVS

RNA can be constructed in which the nucleotide sequence of the active site is complementary to the nucleotide sequence to be cleaved (see Cech *et al.* U.S. Patent No. 4,987,071; and Cech *et al.* U.S. Patent No. 5,116,742). Alternatively, an mRNA encoding a polypeptide of the invention can be used to select a catalytic RNA having a specific ribonuclease activity from a pool of RNA molecules (see, *e.g.*, Bartel and Szostak, 1993, *Science* 261:1411-1418).

The invention also encompasses nucleic acid molecules which form triple helical structures. For example, expression of a polypeptide of the invention can be inhibited by targeting nucleotide sequences complementary to the regulatory region of the gene encoding the polypeptide (*e.g.*, the promoter and/or enhancer) to form triple helical structures that prevent transcription of the gene in target cells. See generally Helene (1991) *Anticancer Drug Des.* 6(6):569-84; Helene (1992) *Ann. N.Y. Acad. Sci.* 660:27-36; and Maher (1992) *Bioassays* 14(12):807-15.

In various embodiments, the nucleic acid molecules of the invention can be modified at the base moiety, sugar moiety or phosphate backbone to improve, *e.g.*, the stability, hybridization, or solubility of the molecule. For example, the deoxyribose phosphate backbone of the nucleic acids can be modified to generate peptide nucleic acids (see Hyrup *et al.*, 1996, *Bioorganic & Medicinal Chemistry* 4(1): 5-23). As used herein, the terms "peptide nucleic acids" or "PNAs" refer to nucleic acid mimics, *e.g.*, DNA mimics, in which the deoxyribose phosphate backbone is replaced by a pseudopeptide backbone and only the four natural nucleobases are retained. The neutral backbone of PNAs has been shown to allow for specific hybridization to DNA and RNA under conditions of low ionic strength. The synthesis of PNA oligomers can be performed using standard solid phase peptide synthesis protocols as described in Hyrup *et al.* (1996), *supra*; Perry-O'Keefe *et al.* (1996) *Proc. Natl. Acad. Sci. USA* 93:14670-675.

PNAs can be used in therapeutic and diagnostic applications. For example, PNAs can be used as antisense or antigene agents for sequence-specific modulation of gene expression by, *e.g.*, inducing transcription or translation arrest or inhibiting replication. PNAs can also be used, *e.g.*, in the analysis of single base pair mutations in a gene by, *e.g.*, PNA directed PCR clamping; as artificial restriction enzymes when used in combination with other enzymes, *e.g.*, S1 nucleases (Hyrup (1996), *supra*; or as

probes or primers for DNA sequence and hybridization (Hyrup, 1996, *supra*; Perry-O'Keefe *et al.*, 1996, *Proc. Natl. Acad. Sci. USA* 93:14670-675).

In another embodiment, PNAs can be modified, *e.g.*, to enhance their stability or cellular uptake, by attaching lipophilic or other helper groups to PNA, by the formation of PNA-DNA chimeras, or by the use of liposomes or other techniques of drug delivery known in the art. For example, PNA-DNA chimeras can be generated which can combine the advantageous properties of PNA and DNA. Such chimeras allow DNA recognition enzymes, *e.g.*, RNASE H and DNA polymerases, to interact with the DNA portion while the PNA portion would provide high binding affinity and specificity.

10 PNA-DNA chimeras can be linked using linkers of appropriate lengths selected in terms of base stacking, number of bonds between the nucleobases, and orientation (Hyrup, 1996, *supra*). The synthesis of PNA-DNA chimeras can be performed as described in Hyrup (1996), *supra*, and Finn *et al.* (1996) *Nucleic Acids Res.* 24(17):3357-63. For example, a DNA chain can be synthesized on a solid support using standard

15 phosphoramidite coupling chemistry and modified nucleoside analogs. Compounds such as 5'-(4-methoxytrityl)amino-5'-deoxy-thymidine phosphoramidite can be used as a link between the PNA and the 5' end of DNA (Mag *et al.*, 1989, *Nucleic Acids Res.* 17:5973-88). PNA monomers are then coupled in a step-wise manner to produce a chimeric molecule with a 5' PNA segment and a 3' DNA segment (Finn *et al.*, 1996, *Nucleic Acids Res.* 24(17):3357-63). Alternatively, chimeric molecules can be synthesized with a 5' DNA segment and a 3' PNA segment (Peterser *et al.*, 1975, *Bioorganic Med. Chem. Lett.* 5:1119-1124).

In other embodiments, the oligonucleotide can include other appended groups such as peptides (*e.g.*, for targeting host cell receptors *in vivo*), or agents facilitating transport across the cell membrane (see, *e.g.*, Letsinger *et al.*, 1989, *Proc. Natl. Acad. Sci. USA* 86:6553-6556; Lemaitre *et al.*, 1987, *Proc. Natl. Acad. Sci. USA* 84:648-652; PCT Publication No. WO 88/09810) or the blood-brain barrier (see, *e.g.*, PCT Publication No. WO 89/10134). In addition, oligonucleotides can be modified with hybridization-triggered cleavage agents (see, *e.g.*, Krol *et al.*, 1988, *Bio/Techniques* 6:958-976) or intercalating agents (see, *e.g.*, Zon, 1988, *Pharm. Res.* 5:539-549). To

25

30 this end, the oligonucleotide can be conjugated to another molecule, *e.g.*, a peptide,

hybridization triggered cross-linking agent, transport agent, hybridization-triggered cleavage agent, etc.

The invention also includes molecular beacon nucleic acids having at least one region which is complementary to a nucleic acid of the invention, such that the molecular beacon is useful for quantitating the presence of the nucleic acid of the invention in a sample. A "molecular beacon" nucleic acid is a nucleic acid comprising a pair of complementary regions and having a fluorophore and a fluorescent quencher associated therewith. The fluorophore and quencher are associated with different portions of the nucleic acid in such an orientation that when the complementary regions are annealed with one another, fluorescence of the fluorophore is quenched by the quencher. When the complementary regions of the nucleic acid are not annealed with one another, fluorescence of the fluorophore is quenched to a lesser degree. Molecular beacon nucleic acids are described, for example, in U.S. Patent 5,876,930.

## 15 II. Isolated Proteins and Antibodies

One aspect of the invention pertains to novel isolated proteins which correspond to individual markers of the invention, and biologically active portions thereof, as well as polypeptide fragments suitable for use as immunogens to raise antibodies directed against a polypeptide corresponding to a marker of the invention. In one embodiment, the native polypeptide corresponding to a marker can be isolated from cells or tissue sources by an appropriate purification scheme using standard protein purification techniques. In another embodiment, polypeptides corresponding to a marker of the invention are produced by recombinant DNA techniques. Alternative to recombinant expression, a polypeptide corresponding to a marker of the invention can be synthesized chemically using standard peptide synthesis techniques.

An "isolated" or "purified" protein or biologically active portion thereof is substantially free of cellular material or other contaminating proteins from the cell or tissue source from which the protein is derived, or substantially free of chemical precursors or other chemicals when chemically synthesized. The language "substantially free of cellular material" includes preparations of protein in which the protein is separated from cellular components of the cells from which it is isolated or recombinantly produced. Thus, protein that is substantially free of cellular material

includes preparations of protein having less than about 30%, 20%, 10%, or 5% (by dry weight) of heterologous protein (also referred to herein as a "contaminating protein"). When the protein or biologically active portion thereof is recombinantly produced, it is also preferably substantially free of culture medium, *i.e.*, culture medium represents less than about 20%, 10%, or 5% of the volume of the protein preparation. When the protein is produced by chemical synthesis, it is preferably substantially free of chemical precursors or other chemicals, *i.e.*, it is separated from chemical precursors or other chemicals which are involved in the synthesis of the protein. Accordingly such preparations of the protein have less than about 30%, 20%, 10%, 5% (by dry weight) of chemical precursors or compounds other than the polypeptide of interest.

Biologically active portions of a polypeptide corresponding to a marker of the invention include polypeptides comprising amino acid sequences sufficiently identical to or derived from the amino acid sequence of the protein corresponding to the marker (*e.g.*, the amino acid sequence listed in the GenBank and IMAGE Consortium database records described herein), which include fewer amino acids than the full length protein, and exhibit at least one activity of the corresponding full-length protein. Typically, biologically active portions comprise a domain or motif with at least one activity of the corresponding protein. A biologically active portion of a protein of the invention can be a polypeptide which is, for example, 10, 25, 50, 100 or more amino acids in length. Moreover, other biologically active portions, in which other regions of the protein are deleted, can be prepared by recombinant techniques and evaluated for one or more of the functional activities of the native form of a polypeptide of the invention.

Preferred polypeptides are encoded by the nucleotide sequences in Tables 1-4. Other useful proteins are substantially identical (*e.g.*, at least about 40%, preferably 50%, 60%, 70%, 80%, 90%, 95%, or 99%) to one of these sequences and retain the functional activity of the protein of the corresponding naturally-occurring protein yet differ in amino acid sequence due to natural allelic variation or mutagenesis.

To determine the percent identity of two amino acid sequences or of two nucleic acids, the sequences are aligned for optimal comparison purposes (*e.g.*, gaps can be introduced in the sequence of a first amino acid or nucleic acid sequence for optimal alignment with a second amino or nucleic acid sequence). The amino acid residues or nucleotides at corresponding amino acid positions or nucleotide positions are then

compared. When a position in the first sequence is occupied by the same amino acid residue or nucleotide as the corresponding position in the second sequence, then the molecules are identical at that position. The percent identity between the two sequences is a function of the number of identical positions shared by the sequences (*i.e.*, %  
5 identity = # of identical positions/total # of positions (*e.g.*, overlapping positions) × 100). In one embodiment the two sequences are the same length.

The determination of percent identity between two sequences can be accomplished using a mathematical algorithm. A preferred, non-limiting example of a mathematical algorithm utilized for the comparison of two sequences is the algorithm of  
10 Karlin and Altschul (1990) *Proc. Natl. Acad. Sci. USA* 87:2264-2268, modified as in Karlin and Altschul (1993) *Proc. Natl. Acad. Sci. USA* 90:5873-5877. Such an algorithm is incorporated into the NBLAST and XBLAST programs of Altschul, *et al.* (1990) *J. Mol. Biol.* 215:403-410. BLAST nucleotide searches can be performed with the NBLAST program, score = 100, wordlength = 12 to obtain nucleotide sequences  
15 homologous to a nucleic acid molecules of the invention. BLAST protein searches can be performed with the XBLAST program, score = 50, wordlength = 3 to obtain amino acid sequences homologous to a protein molecules of the invention. To obtain gapped alignments for comparison purposes, Gapped BLAST can be utilized as described in Altschul *et al.* (1997) *Nucleic Acids Res.* 25:3389-3402. Alternatively, PSI-Blast can be  
20 used to perform an iterated search which detects distant relationships between molecules. When utilizing BLAST, Gapped BLAST, and PSI-Blast programs, the default parameters of the respective programs (*e.g.*, XBLAST and NBLAST) can be used. See <http://www.ncbi.nlm.nih.gov>. Another preferred, non-limiting example of a mathematical algorithm utilized for the comparison of sequences is the algorithm of  
25 Myers and Miller, (1988) *CABIOS* 4:11-17. Such an algorithm is incorporated into the ALIGN program (version 2.0) which is part of the GCG sequence alignment software package. When utilizing the ALIGN program for comparing amino acid sequences, a PAM120 weight residue table, a gap length penalty of 12, and a gap penalty of 4 can be used. Yet another useful algorithm for identifying regions of local sequence similarity  
30 and alignment is the FASTA algorithm as described in Pearson and Lipman (1988) *Proc. Natl. Acad. Sci. USA* 85:2444-2448. When using the FASTA algorithm for



comparing nucleotide or amino acid sequences, a PAM120 weight residue table can, for example, be used with a  $k$ -tuple value of 2.

The percent identity between two sequences can be determined using techniques similar to those described above, with or without allowing gaps. In calculating percent  
5 identity, only exact matches are counted.

The invention also provides chimeric or fusion proteins corresponding to a marker of the invention. As used herein, a "chimeric protein" or "fusion protein" comprises all or part (preferably a biologically active part) of a polypeptide corresponding to a marker of the invention operably linked to a heterologous  
10 polypeptide (*i.e.*, a polypeptide other than the polypeptide corresponding to the marker). Within the fusion protein, the term "operably linked" is intended to indicate that the polypeptide of the invention and the heterologous polypeptide are fused in-frame to each other. The heterologous polypeptide can be fused to the amino-terminus or the carboxyl-terminus of the polypeptide of the invention.

15 One useful fusion protein is a GST fusion protein in which a polypeptide corresponding to a marker of the invention is fused to the carboxyl terminus of GST sequences. Such fusion proteins can facilitate the purification of a recombinant polypeptide of the invention.

In another embodiment, the fusion protein contains a heterologous signal  
20 sequence at its amino terminus. For example, the native signal sequence of a polypeptide corresponding to a marker of the invention can be removed and replaced with a signal sequence from another protein. For example, the gp67 secretory sequence of the baculovirus envelope protein can be used as a heterologous signal sequence (Ausubel *et al.*, ed., *Current Protocols in Molecular Biology*, John Wiley & Sons, NY,  
25 1992). Other examples of eukaryotic heterologous signal sequences include the secretory sequences of melittin and human placental alkaline phosphatase (Stratagene; La Jolla, California). In yet another example, useful prokaryotic heterologous signal sequences include the *phoA* secretory signal (Sambrook *et al.*, *supra*) and the protein A secretory signal (Pharmacia Biotech; Piscataway, New Jersey).

30 In yet another embodiment, the fusion protein is an immunoglobulin fusion protein in which all or part of a polypeptide corresponding to a marker of the invention is fused to sequences derived from a member of the immunoglobulin protein family.

The immunoglobulin fusion proteins of the invention can be incorporated into pharmaceutical compositions and administered to a subject to inhibit an interaction between a ligand (soluble or membrane-bound) and a protein on the surface of a cell (receptor), to thereby suppress signal transduction *in vivo*. The immunoglobulin fusion protein can be used to affect the bioavailability of a cognate ligand of a polypeptide of the invention. Inhibition of ligand/receptor interaction can be useful therapeutically, both for treating proliferative and differentiative disorders and for modulating (*e.g.* promoting or inhibiting) cell survival. Moreover, the immunoglobulin fusion proteins of the invention can be used as immunogens to produce antibodies directed against a polypeptide of the invention in a subject, to purify ligands and in screening assays to identify molecules which inhibit the interaction of receptors with ligands.

Chimeric and fusion proteins of the invention can be produced by standard recombinant DNA techniques. In another embodiment, the fusion gene can be synthesized by conventional techniques including automated DNA synthesizers. Alternatively, PCR amplification of gene fragments can be carried out using anchor primers which give rise to complementary overhangs between two consecutive gene fragments which can subsequently be annealed and re-amplified to generate a chimeric gene sequence (see, *e.g.*, Ausubel *et al.*, *supra*). Moreover, many expression vectors are commercially available that already encode a fusion moiety (*e.g.*, a GST polypeptide). A nucleic acid encoding a polypeptide of the invention can be cloned into such an expression vector such that the fusion moiety is linked in-frame to the polypeptide of the invention.

A signal sequence can be used to facilitate secretion and isolation of the secreted protein or other proteins of interest. Signal sequences are typically characterized by a core of hydrophobic amino acids which are generally cleaved from the mature protein during secretion in one or more cleavage events. Such signal peptides contain processing sites that allow cleavage of the signal sequence from the mature proteins as they pass through the secretory pathway. Thus, the invention pertains to the described polypeptides having a signal sequence, as well as to polypeptides from which the signal sequence has been proteolytically cleaved (*i.e.*, the cleavage products). In one embodiment, a nucleic acid sequence encoding a signal sequence can be operably linked in an expression vector to a protein of interest, such as a protein which is ordinarily not

secreted or is otherwise difficult to isolate. The signal sequence directs secretion of the protein, such as from a eukaryotic host into which the expression vector is transformed, and the signal sequence is subsequently or concurrently cleaved. The protein can then be readily purified from the extracellular medium by art recognized methods.

- 5 Alternatively, the signal sequence can be linked to the protein of interest using a sequence which facilitates purification, such as with a GST domain.

The present invention also pertains to variants of the polypeptides corresponding to individual markers of the invention. Such variants have an altered amino acid sequence which can function as either agonists (mimetics) or as antagonists. Variants  
10 can be generated by mutagenesis, *e.g.*, discrete point mutation or truncation. An agonist can retain substantially the same, or a subset, of the biological activities of the naturally occurring form of the protein. An antagonist of a protein can inhibit one or more of the activities of the naturally occurring form of the protein by, for example, competitively binding to a downstream or upstream member of a cellular signaling cascade which  
15 includes the protein of interest. Thus, specific biological effects can be elicited by treatment with a variant of limited function. Treatment of a subject with a variant having a subset of the biological activities of the naturally occurring form of the protein can have fewer side effects in a subject relative to treatment with the naturally occurring form of the protein.

20 Variants of a protein of the invention which function as either agonists (mimetics) or as antagonists can be identified by screening combinatorial libraries of mutants, *e.g.*, truncation mutants, of the protein of the invention for agonist or antagonist activity. In one embodiment, a variegated library of variants is generated by combinatorial mutagenesis at the nucleic acid level and is encoded by a variegated gene  
25 library. A variegated library of variants can be produced by, for example, enzymatically ligating a mixture of synthetic oligonucleotides into gene sequences such that a degenerate set of potential protein sequences is expressible as individual polypeptides, or alternatively, as a set of larger fusion proteins (*e.g.*, for phage display). There are a variety of methods which can be used to produce libraries of potential variants of the  
30 polypeptides of the invention from a degenerate oligonucleotide sequence. Methods for synthesizing degenerate oligonucleotides are known in the art (see, *e.g.*, Narang, 1983,

*Tetrahedron* 39:3; Itakura *et al.*, 1984, *Annu. Rev. Biochem.* 53:323; Itakura *et al.*, 1984, *Science* 198:1056; Ike *et al.*, 1983 *Nucleic Acid Res.* 11:477).

In addition, libraries of fragments of the coding sequence of a polypeptide corresponding to a marker of the invention can be used to generate a variegated  
5 population of polypeptides for screening and subsequent selection of variants. For example, a library of coding sequence fragments can be generated by treating a double stranded PCR fragment of the coding sequence of interest with a nuclease under conditions wherein nicking occurs only about once per molecule, denaturing the double stranded DNA, renaturing the DNA to form double stranded DNA which can include  
10 sense/antisense pairs from different nicked products, removing single stranded portions from reformed duplexes by treatment with S1 nuclease, and ligating the resulting fragment library into an expression vector. By this method, an expression library can be derived which encodes amino terminal and internal fragments of various sizes of the protein of interest.

15 Several techniques are known in the art for screening gene products of combinatorial libraries made by point mutations or truncation, and for screening cDNA libraries for gene products having a selected property. The most widely used techniques, which are amenable to high through-put analysis, for screening large gene libraries typically include cloning the gene library into replicable expression vectors,  
20 transforming appropriate cells with the resulting library of vectors, and expressing the combinatorial genes under conditions in which detection of a desired activity facilitates isolation of the vector encoding the gene whose product was detected. Recursive ensemble mutagenesis (REM), a technique which enhances the frequency of functional mutants in the libraries, can be used in combination with the screening assays to identify  
25 variants of a protein of the invention (Arkin and Yourvan, 1992, *Proc. Natl. Acad. Sci. USA* 89:7811-7815; Delgrave *et al.*, 1993, *Protein Engineering* 6(3):327- 331).

An isolated polypeptide corresponding to a marker of the invention, or a fragment thereof, can be used as an immunogen to generate antibodies using standard techniques for polyclonal and monoclonal antibody preparation. The full-length  
30 polypeptide or protein can be used or, alternatively, the invention provides antigenic peptide fragments for use as immunogens. The antigenic peptide of a protein of the invention comprises at least 8 (preferably 10, 15, 20, or 30 or more) amino acid residues

of the amino acid sequence of one of the polypeptides of the invention, and encompasses an epitope of the protein such that an antibody raised against the peptide forms a specific immune complex with a marker of the invention to which the protein corresponds. Preferred epitopes encompassed by the antigenic peptide are regions that are located on the surface of the protein, *e.g.*, hydrophilic regions. Hydrophobicity sequence analysis, hydrophilicity sequence analysis, or similar analyses can be used to identify hydrophilic regions.

An immunogen typically is used to prepare antibodies by immunizing a suitable (*i.e.* immunocompetent) subject such as a rabbit, goat, mouse, or other mammal or vertebrate. An appropriate immunogenic preparation can contain, for example, recombinantly-expressed or chemically-synthesized polypeptide. The preparation can further include an adjuvant, such as Freund's complete or incomplete adjuvant, or a similar immunostimulatory agent.

Accordingly, another aspect of the invention pertains to antibodies directed against a polypeptide of the invention. The terms "antibody" and "antibody substance" as used interchangeably herein refer to immunoglobulin molecules and immunologically active portions of immunoglobulin molecules, *i.e.*, molecules that contain an antigen binding site which specifically binds an antigen, such as a polypeptide of the invention, *e.g.*, an epitope of a polypeptide of the invention. A molecule which specifically binds to a given polypeptide of the invention is a molecule which binds the polypeptide, but does not substantially bind other molecules in a sample, *e.g.*, a biological sample, which naturally contains the polypeptide. Examples of immunologically active portions of immunoglobulin molecules include F(ab) and F(ab')<sub>2</sub> fragments which can be generated by treating the antibody with an enzyme such as pepsin. The invention provides polyclonal and monoclonal antibodies. The term "monoclonal antibody" or "monoclonal antibody composition", as used herein, refers to a population of antibody molecules that contain only one species of an antigen binding site capable of immunoreacting with a particular epitope.

Polyclonal antibodies can be prepared as described above by immunizing a suitable subject with a polypeptide of the invention as an immunogen. Preferred polyclonal antibody compositions are ones that have been selected for antibodies directed against a polypeptide or polypeptides of the invention. Particularly preferred

polyclonal antibody preparations are ones that contain only antibodies directed against a polypeptide or polypeptides of the invention. Particularly preferred immunogen compositions are those that contain no other human proteins such as, for example, immunogen compositions made using a non-human host cell for recombinant expression of a polypeptide of the invention. In such a manner, the only human epitope or epitopes recognized by the resulting antibody compositions raised against this immunogen will be present as part of a polypeptide or polypeptides of the invention.

The antibody titer in the immunized subject can be monitored over time by standard techniques, such as with an enzyme linked immunosorbent assay (ELISA) using immobilized polypeptide. If desired, the antibody molecules can be harvested or isolated from the subject (*e.g.*, from the blood or serum of the subject) and further purified by well-known techniques, such as protein A chromatography to obtain the IgG fraction. Alternatively, antibodies specific for a protein or polypeptide of the invention can be selected or (*e.g.*, partially purified) or purified by, *e.g.*, affinity chromatography. For example, a recombinantly expressed and purified (or partially purified) protein of the invention is produced as described herein, and covalently or non-covalently coupled to a solid support such as, for example, a chromatography column. The column can then be used to affinity purify antibodies specific for the proteins of the invention from a sample containing antibodies directed against a large number of different epitopes, thereby generating a substantially purified antibody composition, *i.e.*, one that is substantially free of contaminating antibodies. By a substantially purified antibody composition is meant, in this context, that the antibody sample contains at most only 30% (by dry weight) of contaminating antibodies directed against epitopes other than those of the desired protein or polypeptide of the invention, and preferably at most 20%, yet more preferably at most 10%, and most preferably at most 5% (by dry weight) of the sample is contaminating antibodies. A purified antibody composition means that at least 99% of the antibodies in the composition are directed against the desired protein or polypeptide of the invention.

At an appropriate time after immunization, *e.g.*, when the specific antibody titers are highest, antibody-producing cells can be obtained from the subject and used to prepare monoclonal antibodies by standard techniques, such as the hybridoma technique originally described by Kohler and Milstein (1975) *Nature* 256:495-497, the human B

cell hybridoma technique (see Kozbor *et al.*, 1983, *Immunol. Today* 4:72), the EBV-hybridoma technique (see Cole *et al.*, pp. 77-96 In *Monoclonal Antibodies and Cancer Therapy*, Alan R. Liss, Inc., 1985) or trioma techniques. The technology for producing hybridomas is well known (see generally *Current Protocols in Immunology*, Coligan *et al.* ed., John Wiley & Sons, New York, 1994). Hybridoma cells producing a monoclonal antibody of the invention are detected by screening the hybridoma culture supernatants for antibodies that bind the polypeptide of interest, *e.g.*, using a standard ELISA assay.

Alternative to preparing monoclonal antibody-secreting hybridomas, a monoclonal antibody directed against a polypeptide of the invention can be identified and isolated by screening a recombinant combinatorial immunoglobulin library (*e.g.*, an antibody phage display library) with the polypeptide of interest. Kits for generating and screening phage display libraries are commercially available (*e.g.*, the Pharmacia *Recombinant Phage Antibody System*, Catalog No. 27-9400-01; and the Stratagene *SurfZAP Phage Display Kit*, Catalog No. 240612). Additionally, examples of methods and reagents particularly amenable for use in generating and screening antibody display library can be found in, for example, U.S. Patent No. 5,223,409; PCT Publication No. WO 92/18619; PCT Publication No. WO 91/17271; PCT Publication No. WO 92/20791; PCT Publication No. WO 92/15679; PCT Publication No. WO 93/01288; PCT Publication No. WO 92/01047; PCT Publication No. WO 92/09690; PCT Publication No. WO 90/02809; Fuchs *et al.* (1991) *Bio/Technology* 9:1370-1372; Hay *et al.* (1992) *Hum. Antibod. Hybridomas* 3:81-85; Huse *et al.* (1989) *Science* 246:1275-1281; Griffiths *et al.* (1993) *EMBO J.* 12:725-734.

Additionally, recombinant antibodies, such as chimeric and humanized monoclonal antibodies, comprising both human and non-human portions, which can be made using standard recombinant DNA techniques, are within the scope of the invention. A chimeric antibody is a molecule in which different portions are derived from different animal species, such as those having a variable region derived from a murine mAb and a human immunoglobulin constant region. (See, *e.g.*, Cabilly *et al.*, U.S. Patent No. 4,816,567; and Boss *et al.*, U.S. Patent No. 4,816,397, which are incorporated herein by reference in their entirety.) Humanized antibodies are antibody molecules from non-human species having one or more complementarily determining

regions (CDRs) from the non-human species and a framework region from a human immunoglobulin molecule. (See, *e.g.*, Queen, U.S. Patent No. 5,585,089, which is incorporated herein by reference in its entirety.) Such chimeric and humanized monoclonal antibodies can be produced by recombinant DNA techniques known in the art, for example using methods described in PCT Publication No. WO 87/02671; European Patent Application 184,187; European Patent Application 171,496; European Patent Application 173,494; PCT Publication No. WO 86/01533; U.S. Patent No. 4,816,567; European Patent Application 125,023; Better *et al.* (1988) *Science* 240:1041-1043; Liu *et al.* (1987) *Proc. Natl. Acad. Sci. USA* 84:3439-3443; Liu *et al.* (1987) *J. Immunol.* 139:3521- 3526; Sun *et al.* (1987) *Proc. Natl. Acad. Sci. USA* 84:214-218; Nishimura *et al.* (1987) *Cancer Res.* 47:999-1005; Wood *et al.* (1985) *Nature* 314:446-449; and Shaw *et al.* (1988) *J. Natl. Cancer Inst.* 80:1553-1559; Morrison (1985) *Science* 229:1202-1207; Oi *et al.* (1986) *Bio/Techniques* 4:214; U.S. Patent 5,225,539; Jones *et al.* (1986) *Nature* 321:552-525; Verhoeyan *et al.* (1988) *Science* 239:1534; and Beidler *et al.* (1988) *J. Immunol.* 141:4053-4060.

Antibodies of the invention may be used as therapeutic agents in treating cancers. In a preferred embodiment, completely human antibodies of the invention are used for therapeutic treatment of human cancer patients, particularly those having cervical cancer. Such antibodies can be produced, for example, using transgenic mice which are incapable of expressing endogenous immunoglobulin heavy and light chains genes, but which can express human heavy and light chain genes. The transgenic mice are immunized in the normal fashion with a selected antigen, *e.g.*, all or a portion of a polypeptide corresponding to a marker of the invention. Monoclonal antibodies directed against the antigen can be obtained using conventional hybridoma technology. The human immunoglobulin transgenes harbored by the transgenic mice rearrange during B cell differentiation, and subsequently undergo class switching and somatic mutation. Thus, using such a technique, it is possible to produce therapeutically useful IgG, IgA and IgE antibodies. For an overview of this technology for producing human antibodies, see Lonberg and Huszar (1995) *Int. Rev. Immunol.* 13:65-93). For a detailed discussion of this technology for producing human antibodies and human monoclonal antibodies and protocols for producing such antibodies, see, *e.g.*, U.S. Patent 5,625,126; U.S. Patent 5,633,425; U.S. Patent 5,569,825; U.S. Patent 5,661,016; and U.S. Patent



5,545,806. In addition, companies such as Abgenix, Inc. (Freemont, CA), can be engaged to provide human antibodies directed against a selected antigen using technology similar to that described above.

Completely human antibodies which recognize a selected epitope can be generated using a technique referred to as "guided selection." In this approach a selected non-human monoclonal antibody, *e.g.*, a murine antibody, is used to guide the selection of a completely human antibody recognizing the same epitope (Jespers *et al.*, 1994, *Bio/technology* 12:899-903).

An antibody directed against a polypeptide corresponding to a marker of the invention (*e.g.*, a monoclonal antibody) can be used to isolate the polypeptide by standard techniques, such as affinity chromatography or immunoprecipitation. Moreover, such an antibody can be used to detect the marker (*e.g.*, in a cellular lysate or cell supernatant) in order to evaluate the level and pattern of expression of the marker. The antibodies can also be used diagnostically to monitor protein levels in tissues or body fluids (*e.g.* in an ovary-associated body fluid) as part of a clinical testing procedure, *e.g.*, to, for example, determine the efficacy of a given treatment regimen. Detection can be facilitated by coupling the antibody to a detectable substance. Examples of detectable substances include various enzymes, prosthetic groups, fluorescent materials, luminescent materials, bioluminescent materials, and radioactive materials. Examples of suitable enzymes include horseradish peroxidase, alkaline phosphatase,  $\beta$ -galactosidase, or acetylcholinesterase; examples of suitable prosthetic group complexes include streptavidin/biotin and avidin/biotin; examples of suitable fluorescent materials include umbelliferone, fluorescein, fluorescein isothiocyanate, rhodamine, dichlorotriazinylamine fluorescein, dansyl chloride or phycoerythrin; an example of a luminescent material includes luminol; examples of bioluminescent materials include luciferase, luciferin, and aequorin, and examples of suitable radioactive material include  $^{125}\text{I}$ ,  $^{131}\text{I}$ ,  $^{35}\text{S}$  or  $^3\text{H}$ .

Further, an antibody (or fragment thereof) can be conjugated to a therapeutic moiety such as a cytotoxin, a therapeutic agent or a radioactive metal ion. A cytotoxin or cytotoxic agent includes any agent that is detrimental to cells. Examples include taxol, cytochalasin B, gramicidin D, ethidium bromide, emetine, mitomycin, etoposide, tenoposide, vincristine, vinblastine, colchicin, doxorubicin, daunorubicin, dihydroxy

anthracin dione, mitoxantrone, mithramycin, actinomycin D, 1-dehydrotestosterone, glucocorticoids, procaine, tetracaine, lidocaine, propranolol, and puromycin and analogs or homologs thereof. Therapeutic agents include, but are not limited to, antimetabolites (*e.g.*, methotrexate, 6-mercaptopurine, 6-thioguanine, cytarabine, 5-fluorouracil  
5 decarbazine), alkylating agents (*e.g.*, mechlorethamine, thioepa chlorambucil, melphalan, carmustine (BSNU) and lomustine (CCNU), cyclophosphamide, busulfan, dibromomannitol, streptozotocin, mitomycin C, and cis-dichlorodiamine platinum (II) (DDP) cisplatin), anthracyclines (*e.g.*, daunorubicin (formerly daunomycin) and doxorubicin), antibiotics (*e.g.*, dactinomycin (formerly actinomycin), bleomycin,  
10 mithramycin, and anthramycin (AMC)), and anti-mitotic agents (*e.g.*, vincristine and vinblastine).

The conjugates of the invention can be used for modifying a given biological response, the drug moiety is not to be construed as limited to classical chemical therapeutic agents. For example, the drug moiety may be a protein or polypeptide  
15 possessing a desired biological activity. Such proteins may include, for example, a toxin such as abrin, ricin A, pseudomonas exotoxin, or diphtheria toxin; a protein such as tumor necrosis factor, .alpha.-interferon, .beta.-interferon, nerve growth factor, platelet derived growth factor, tissue plasminogen activator; or, biological response modifiers such as, for example, lymphokines, interleukin-1 ("IL-1"), interleukin-2 ("IL-2"),  
20 interleukin-6 ("IL-6"), granulocyte macrophase colony stimulating factor ("GM-CSF"), granulocyte colony stimulating factor ("G-CSF"), or other growth factors.

Techniques for conjugating such therapeutic moiety to antibodies are well known, see, *e.g.*, Arnon et al., "Monoclonal Antibodies For Immunotargeting Of Drugs In Cancer Therapy", in Monoclonal Antibodies And Cancer Therapy, Reisfeld et al.  
25 (eds.), pp. 243-56 (Alan R. Liss, Inc. 1985); Hellstrom et al., "Antibodies For Drug Delivery", in Controlled Drug Delivery (2nd Ed.), Robinson et al. (eds.), pp. 623-53 (Marcel Dekker, Inc. 1987); Thorpe, "Antibody Carriers Of Cytotoxic Agents In Cancer Therapy: A Review", in Monoclonal Antibodies '84: Biological And Clinical Applications, Pinchera et al. (eds.), pp. 475-506 (1985); "Analysis, Results, And Future  
30 Prospective Of The Therapeutic Use Of Radiolabeled Antibody In Cancer Therapy", in Monoclonal Antibodies For Cancer Detection And Therapy, Baldwin et al. (eds.), pp.

303-16 (Academic Press 1985), and Thorpe et al., "The Preparation And Cytotoxic Properties Of Antibody-Toxin Conjugates", Immunol. Rev., 62:119-58 (1982).

Alternatively, an antibody can be conjugated to a second antibody to form an antibody heteroconjugate as described by Segal in U.S. Patent No. 4,676,980.

5       Accordingly, in one aspect, the invention provides substantially purified antibodies or fragments thereof, and non-human antibodies or fragments thereof, which antibodies or fragments specifically bind to a polypeptide comprising an amino acid sequence selected from the group consisting of the amino acid sequences of the present invention, an amino acid sequence encoded by the cDNA of the present invention, a  
10       fragment of at least 15 amino acid residues of an amino acid sequence of the present invention, an amino acid sequence which is at least 95% identical to the amino acid sequence of the present invention (wherein the percent identity is determined using the ALIGN program of the GCG software package with a PAM120 weight residue table, a gap length penalty of 12, and a gap penalty of 4) and an amino acid sequence which is  
15       encoded by a nucleic acid molecule which hybridizes to a nucleic acid molecule consisting of the nucleic acid molecules of the present invention, or a complement thereof, under conditions of hybridization of 6X SSC at 45°C and washing in 0.2 X SSC, 0.1% SDS at 65°C. In various embodiments, the substantially purified antibodies of the invention, or fragments thereof, can be human, non-human, chimeric and/or  
20       humanized antibodies.

      In another aspect, the invention provides non-human antibodies or fragments thereof, which antibodies or fragments specifically bind to a polypeptide comprising an amino acid sequence selected from the group consisting of: the amino acid sequence of the present invention, an amino acid sequence encoded by the cDNA of the present  
25       invention, a fragment of at least 15 amino acid residues of the amino acid sequence of the present invention, an amino acid sequence which is at least 95% identical to the amino acid sequence of the present invention (wherein the percent identity is determined using the ALIGN program of the GCG software package with a PAM120 weight residue table, a gap length penalty of 12, and a gap penalty of 4) and an amino acid sequence  
30       which is encoded by a nucleic acid molecule which hybridizes to a nucleic acid molecule consisting of the nucleic acid molecules of the present invention, or a complement thereof, under conditions of hybridization of 6X SSC at 45°C and washing

in 0.2 X SSC, 0.1% SDS at 65°C. Such non-human antibodies can be goat, mouse, sheep, horse, chicken, rabbit, or rat antibodies. Alternatively, the non-human antibodies of the invention can be chimeric and/or humanized antibodies. In addition, the non-human antibodies of the invention can be polyclonal antibodies or monoclonal antibodies.

5 In still a further aspect, the invention provides monoclonal antibodies or fragments thereof, which antibodies or fragments specifically bind to a polypeptide comprising an amino acid sequence selected from the group consisting of the amino acid sequences of the present invention, an amino acid sequence encoded by the cDNA of the present invention, a fragment of at least 15 amino acid residues of an amino acid  
10 sequence of the present invention, an amino acid sequence which is at least 95% identical to an amino acid sequence of the present invention (wherein the percent identity is determined using the ALIGN program of the GCG software package with a PAM120 weight residue table, a gap length penalty of 12, and a gap penalty of 4) and an  
15 amino acid sequence which is encoded by a nucleic acid molecule which hybridizes to a nucleic acid molecule consisting of the nucleic acid molecules of the present invention, or a complement thereof, under conditions of hybridization of 6X SSC at 45°C and washing in 0.2 X SSC, 0.1% SDS at 65°C. The monoclonal antibodies can be human, humanized, chimeric and/or non-human antibodies.

20 The substantially purified antibodies or fragments thereof may specifically bind to a signal peptide, a secreted sequence, an extracellular domain, a transmembrane or a cytoplasmic domain or cytoplasmic membrane of a polypeptide of the invention. In a particularly preferred embodiment, the substantially purified antibodies or fragments thereof, the non-human antibodies or fragments thereof, and/or the monoclonal  
25 antibodies or fragments thereof, of the invention specifically bind to a secreted sequence or an extracellular domain of the amino acid sequences of the present invention.

Any of the antibodies of the invention can be conjugated to a therapeutic moiety or to a detectable substance. Non-limiting examples of detectable substances that can be conjugated to the antibodies of the invention are an enzyme, a prosthetic group, a  
30 fluorescent material, a luminescent material, a bioluminescent material, and a radioactive material.

The invention also provides a kit containing an antibody of the invention conjugated to a detectable substance, and instructions for use. Still another aspect of the invention is a pharmaceutical composition comprising an antibody of the invention and a pharmaceutically acceptable carrier. In preferred embodiments, the pharmaceutical composition contains an antibody of the invention, a therapeutic moiety, and a pharmaceutically acceptable carrier.

Still another aspect of the invention is a method of making an antibody that specifically recognizes a polypeptide of the present invention, the method comprising immunizing a mammal with a polypeptide. The polypeptide used as an immunogen comprises an amino acid sequence selected from the group consisting of the amino acid sequence of the present invention, an amino acid sequence encoded by the cDNA of the nucleic acid molecules of the present invention, a fragment of at least 15 amino acid residues of the amino acid sequence of the present invention, an amino acid sequence which is at least 95% identical to the amino acid sequence of the present invention (wherein the percent identity is determined using the ALIGN program of the GCG software package with a PAM120 weight residue table, a gap length penalty of 12, and a gap penalty of 4) and an amino acid sequence which is encoded by a nucleic acid molecule which hybridizes to a nucleic acid molecule consisting of the nucleic acid molecules of the present invention, or a complement thereof, under conditions of hybridization of 6X SSC at 45°C and washing in 0.2 X SSC, 0.1% SDS at 65°C. After immunization, a sample is collected from the mammal that contains an antibody that specifically recognizes the polypeptide. Preferably, the polypeptide is recombinantly produced using a non-human host cell. Optionally, the antibodies can be further purified from the sample using techniques well known to those of skill in the art. The method can further comprise producing a monoclonal antibody-producing cell from the cells of the mammal. Optionally, antibodies are collected from the antibody-producing cell.

### III. Recombinant Expression Vectors and Host Cells

Another aspect of the invention pertains to vectors, preferably expression vectors, containing a nucleic acid encoding a polypeptide corresponding to a marker of the invention (or a portion of such a polypeptide). As used herein, the term "vector"

refers to a nucleic acid molecule capable of transporting another nucleic acid to which it has been linked. One type of vector is a "plasmid", which refers to a circular double stranded DNA loop into which additional DNA segments can be ligated. Another type of vector is a viral vector, wherein additional DNA segments can be ligated into the viral genome. Certain vectors are capable of autonomous replication in a host cell into which they are introduced (*e.g.*, bacterial vectors having a bacterial origin of replication and episomal mammalian vectors). Other vectors (*e.g.*, non-episomal mammalian vectors) are integrated into the genome of a host cell upon introduction into the host cell, and thereby are replicated along with the host genome. Moreover, certain vectors, namely expression vectors, are capable of directing the expression of genes to which they are operably linked. In general, expression vectors of utility in recombinant DNA techniques are often in the form of plasmids (vectors). However, the invention is intended to include such other forms of expression vectors, such as viral vectors (*e.g.*, replication defective retroviruses, adenoviruses and adeno-associated viruses), which serve equivalent functions.

The recombinant expression vectors of the invention comprise a nucleic acid of the invention in a form suitable for expression of the nucleic acid in a host cell. This means that the recombinant expression vectors include one or more regulatory sequences, selected on the basis of the host cells to be used for expression, which is operably linked to the nucleic acid sequence to be expressed. Within a recombinant expression vector, "operably linked" is intended to mean that the nucleotide sequence of interest is linked to the regulatory sequence(s) in a manner which allows for expression of the nucleotide sequence (*e.g.*, in an *in vitro* transcription/translation system or in a host cell when the vector is introduced into the host cell). The term "regulatory sequence" is intended to include promoters, enhancers and other expression control elements (*e.g.*, polyadenylation signals). Such regulatory sequences are described, for example, in Goeddel, *Methods in Enzymology: Gene Expression Technology* vol.185, Academic Press, San Diego, CA (1991). Regulatory sequences include those which direct constitutive expression of a nucleotide sequence in many types of host cell and those which direct expression of the nucleotide sequence only in certain host cells (*e.g.*, tissue-specific regulatory sequences). It will be appreciated by those skilled in the art that the design of the expression vector can depend on such factors as the choice of the

host cell to be transformed, the level of expression of protein desired, and the like. The expression vectors of the invention can be introduced into host cells to thereby produce proteins or peptides, including fusion proteins or peptides, encoded by nucleic acids as described herein.

5           The recombinant expression vectors of the invention can be designed for expression of a polypeptide corresponding to a marker of the invention in prokaryotic (*e.g.*, *E. coli*) or eukaryotic cells (*e.g.*, insect cells {using baculovirus expression vectors}, yeast cells or mammalian cells). Suitable host cells are discussed further in Goeddel, *supra*. Alternatively, the recombinant expression vector can be transcribed  
10 and translated *in vitro*, for example using T7 promoter regulatory sequences and T7 polymerase.

          Expression of proteins in prokaryotes is most often carried out in *E. coli* with vectors containing constitutive or inducible promoters directing the expression of either fusion or non-fusion proteins. Fusion vectors add a number of amino acids to a protein  
15 encoded therein, usually to the amino terminus of the recombinant protein. Such fusion vectors typically serve three purposes: 1) to increase expression of recombinant protein; 2) to increase the solubility of the recombinant protein; and 3) to aid in the purification of the recombinant protein by acting as a ligand in affinity purification. Often, in fusion expression vectors, a proteolytic cleavage site is introduced at the junction of the fusion  
20 moiety and the recombinant protein to enable separation of the recombinant protein from the fusion moiety subsequent to purification of the fusion protein. Such enzymes, and their cognate recognition sequences, include Factor Xa, thrombin and enterokinase. Typical fusion expression vectors include pGEX (Pharmacia Biotech Inc; Smith and Johnson, 1988, *Gene* 67:31-40), pMAL (New England Biolabs, Beverly, MA) and  
25 pRIT5 (Pharmacia, Piscataway, NJ) which fuse glutathione S-transferase (GST), maltose E binding protein, or protein A, respectively, to the target recombinant protein.

          Examples of suitable inducible non-fusion *E. coli* expression vectors include pTrc (Amann *et al.*, 1988, *Gene* 69:301-315) and pET 11d (Studier *et al.*, p. 60-89, In *Gene Expression Technology: Methods in Enzymology* vol.185, Academic Press, San  
30 Diego, CA, 1991). Target gene expression from the pTrc vector relies on host RNA polymerase transcription from a hybrid trp-lac fusion promoter. Target gene expression from the pET 11d vector relies on transcription from a T7 gn10-lac fusion promoter

mediated by a co-expressed viral RNA polymerase (T7 gn1). This viral polymerase is supplied by host strains BL21(DE3) or HMS174(DE3) from a resident prophage harboring a T7 gn1 gene under the transcriptional control of the lacUV 5 promoter.

One strategy to maximize recombinant protein expression in *E. coli* is to express  
5 the protein in a host bacteria with an impaired capacity to proteolytically cleave the recombinant protein (Gottesman, p. 119-128, In *Gene Expression Technology: Methods in Enzymology* vol. 185, Academic Press, San Diego, CA, 1990. Another strategy is to alter the nucleic acid sequence of the nucleic acid to be inserted into an expression vector so that the individual codons for each amino acid are those preferentially utilized  
10 in *E. coli* (Wada *et al.*, 1992, *Nucleic Acids Res.* 20:2111-2118). Such alteration of nucleic acid sequences of the invention can be carried out by standard DNA synthesis techniques.

In another embodiment, the expression vector is a yeast expression vector. Examples of vectors for expression in yeast *S. cerevisiae* include pYepSec1 (Baldari *et al.*, 1987, *EMBO J.* 6:229-234), pMFa (Kurjan and Herskowitz, 1982, *Cell* 30:933-943), pJRY88 (Schultz *et al.*, 1987, *Gene* 54:113-123), pYES2 (Invitrogen Corporation, San Diego, CA), and pPicZ (Invitrogen Corp, San Diego, CA).

Alternatively, the expression vector is a baculovirus expression vector. Baculovirus vectors available for expression of proteins in cultured insect cells (*e.g.*, Sf  
20 9 cells) include the pAc series (Smith *et al.*, 1983, *Mol. Cell Biol.* 3:2156-2165) and the pVL series (Lucklow and Summers, 1989, *Virology* 170:31-39).

In yet another embodiment, a nucleic acid of the invention is expressed in mammalian cells using a mammalian expression vector. Examples of mammalian expression vectors include pCDM8 (Seed, 1987, *Nature* 329:840) and pMT2PC  
25 (Kaufman *et al.*, 1987, *EMBO J.* 6:187-195). When used in mammalian cells, the expression vector's control functions are often provided by viral regulatory elements. For example, commonly used promoters are derived from polyoma, Adenovirus 2, cytomegalovirus and Simian Virus 40. For other suitable expression systems for both prokaryotic and eukaryotic cells see chapters 16 and 17 of Sambrook *et al.*, *supra*.

30 In another embodiment, the recombinant mammalian expression vector is capable of directing expression of the nucleic acid preferentially in a particular cell type (*e.g.*, tissue-specific regulatory elements are used to express the nucleic acid). Tissue-



specific regulatory elements are known in the art. Non-limiting examples of suitable tissue-specific promoters include the albumin promoter (liver-specific; Pinkert *et al.*, 1987, *Genes Dev.* 1:268-277), lymphoid-specific promoters (Calame and Eaton, 1988, *Adv. Immunol.* 43:235-275), in particular promoters of T cell receptors (Winoto and Baltimore, 1989, *EMBO J.* 8:729-733) and immunoglobulins (Banerji *et al.*, 1983, *Cell* 33:729-740; Queen and Baltimore, 1983, *Cell* 33:741-748), neuron-specific promoters (e.g., the neurofilament promoter; Byrne and Ruddle, 1989, *Proc. Natl. Acad. Sci. USA* 86:5473-5477), pancreas-specific promoters (Edlund *et al.*, 1985, *Science* 230:912-916), and mammary gland-specific promoters (e.g., milk whey promoter; U.S. Patent No. 4,873,316 and European Application Publication No. 264,166). Developmentally-regulated promoters are also encompassed, for example the murine hox promoters (Kessel and Gruss, 1990, *Science* 249:374-379) and the  $\alpha$ -fetoprotein promoter (Camper and Tilghman, 1989, *Genes Dev.* 3:537-546).

The invention further provides a recombinant expression vector comprising a DNA molecule of the invention cloned into the expression vector in an antisense orientation. That is, the DNA molecule is operably linked to a regulatory sequence in a manner which allows for expression (by transcription of the DNA molecule) of an RNA molecule which is antisense to the mRNA encoding a polypeptide of the invention. Regulatory sequences operably linked to a nucleic acid cloned in the antisense orientation can be chosen which direct the continuous expression of the antisense RNA molecule in a variety of cell types, for instance viral promoters and/or enhancers, or regulatory sequences can be chosen which direct constitutive, tissue-specific or cell type specific expression of antisense RNA. The antisense expression vector can be in the form of a recombinant plasmid, phagemid, or attenuated virus in which antisense nucleic acids are produced under the control of a high efficiency regulatory region, the activity of which can be determined by the cell type into which the vector is introduced. For a discussion of the regulation of gene expression using antisense genes see Weintraub *et al.*, 1986, *Trends in Genetics*, Vol. 1(1).

Another aspect of the invention pertains to host cells into which a recombinant expression vector of the invention has been introduced. The terms "host cell" and "recombinant host cell" are used interchangeably herein. It is understood that such terms refer not only to the particular subject cell but to the progeny or potential progeny

of such a cell. Because certain modifications may occur in succeeding generations due to either mutation or environmental influences, such progeny may not, in fact, be identical to the parent cell, but are still included within the scope of the term as used herein.

5 A host cell can be any prokaryotic (*e.g.*, *E. coli*) or eukaryotic cell (*e.g.*, insect cells, yeast or mammalian cells).

Vector DNA can be introduced into prokaryotic or eukaryotic cells via conventional transformation or transfection techniques. As used herein, the terms "transformation" and "transfection" are intended to refer to a variety of art-recognized techniques for introducing foreign nucleic acid into a host cell, including calcium phosphate or calcium chloride co-precipitation, DEAE-dextran-mediated transfection, lipofection, or electroporation. Suitable methods for transforming or transfecting host cells can be found in Sambrook, *et al.* (*supra*), and other laboratory manuals.

For stable transfection of mammalian cells, it is known that, depending upon the expression vector and transfection technique used, only a small fraction of cells may integrate the foreign DNA into their genome. In order to identify and select these integrants, a gene that encodes a selectable marker (*e.g.*, for resistance to antibiotics) is generally introduced into the host cells along with the gene of interest. Preferred selectable markers include those which confer resistance to drugs, such as G418, hygromycin and methotrexate. Cells stably transfected with the introduced nucleic acid can be identified by drug selection (*e.g.*, cells that have incorporated the selectable marker gene will survive, while the other cells die).

A host cell of the invention, such as a prokaryotic or eukaryotic host cell in culture, can be used to produce a polypeptide corresponding to a marker of the invention. Accordingly, the invention further provides methods for producing a polypeptide corresponding to a marker of the invention using the host cells of the invention. In one embodiment, the method comprises culturing the host cell of invention (into which a recombinant expression vector encoding a polypeptide of the invention has been introduced) in a suitable medium such that the marker is produced. In another embodiment, the method further comprises isolating the marker polypeptide from the medium or the host cell.

The host cells of the invention can also be used to produce nonhuman transgenic animals. For example, in one embodiment, a host cell of the invention is a fertilized oocyte or an embryonic stem cell into which a sequences encoding a polypeptide corresponding to a marker of the invention have been introduced. Such host cells can then be used to create non-human transgenic animals in which exogenous sequences encoding a marker protein of the invention have been introduced into their genome or homologous recombinant animals in which endogenous gene(s) encoding a polypeptide corresponding to a marker of the invention sequences have been altered. Such animals are useful for studying the function and/or activity of the polypeptide corresponding to the marker and for identifying and/or evaluating modulators of polypeptide activity. As used herein, a "transgenic animal" is a non-human animal, preferably a mammal, more preferably a rodent such as a rat or mouse, in which one or more of the cells of the animal includes a transgene. Other examples of transgenic animals include non-human primates, sheep, dogs, cows, goats, chickens, amphibians, etc. A transgene is exogenous DNA which is integrated into the genome of a cell from which a transgenic animal develops and which remains in the genome of the mature animal, thereby directing the expression of an encoded gene product in one or more cell types or tissues of the transgenic animal. As used herein, an "homologous recombinant animal" is a non-human animal, preferably a mammal, more preferably a mouse, in which an endogenous gene has been altered by homologous recombination between the endogenous gene and an exogenous DNA molecule introduced into a cell of the animal, *e.g.*, an embryonic cell of the animal, prior to development of the animal.

A transgenic animal of the invention can be created by introducing a nucleic acid encoding a polypeptide corresponding to a marker of the invention into the male pronuclei of a fertilized oocyte, *e.g.*, by microinjection, retroviral infection, and allowing the oocyte to develop in a pseudopregnant female foster animal. Intronic sequences and polyadenylation signals can also be included in the transgene to increase the efficiency of expression of the transgene. A tissue-specific regulatory sequence(s) can be operably linked to the transgene to direct expression of the polypeptide of the invention to particular cells. Methods for generating transgenic animals via embryo manipulation and microinjection, particularly animals such as mice, have become conventional in the art and are described, for example, in U.S. Patent Nos. 4,736,866 and 4,870,009, U.S.

Patent No. 4,873,191 and in Hogan, *Manipulating the Mouse Embryo*, Cold Spring Harbor Laboratory Press, Cold Spring Harbor, N.Y., 1986. Similar methods are used for production of other transgenic animals. A transgenic founder animal can be identified based upon the presence of the transgene in its genome and/or expression of mRNA  
5 encoding the transgene in tissues or cells of the animals. A transgenic founder animal can then be used to breed additional animals carrying the transgene. Moreover, transgenic animals carrying the transgene can further be bred to other transgenic animals carrying other transgenes.

To create an homologous recombinant animal, a vector is prepared which  
10 contains at least a portion of a gene encoding a polypeptide corresponding to a marker of the invention into which a deletion, addition or substitution has been introduced to thereby alter, *e.g.*, functionally disrupt, the gene. In a preferred embodiment, the vector is designed such that, upon homologous recombination, the endogenous gene is functionally disrupted (*i.e.*, no longer encodes a functional protein; also referred to as a  
15 "knock out" vector). Alternatively, the vector can be designed such that, upon homologous recombination, the endogenous gene is mutated or otherwise altered but still encodes functional protein (*e.g.*, the upstream regulatory region can be altered to thereby alter the expression of the endogenous protein). In the homologous recombination vector, the altered portion of the gene is flanked at its 5' and 3' ends by  
20 additional nucleic acid of the gene to allow for homologous recombination to occur between the exogenous gene carried by the vector and an endogenous gene in an embryonic stem cell. The additional flanking nucleic acid sequences are of sufficient length for successful homologous recombination with the endogenous gene. Typically, several kilobases of flanking DNA (both at the 5' and 3' ends) are included in the vector  
25 (see, *e.g.*, Thomas and Capecchi, 1987, *Cell* 51:503 for a description of homologous recombination vectors). The vector is introduced into an embryonic stem cell line (*e.g.*, by electroporation) and cells in which the introduced gene has homologously recombined with the endogenous gene are selected (see, *e.g.*, Li *et al.*, 1992, *Cell* 69:915). The selected cells are then injected into a blastocyst of an animal (*e.g.*, a  
30 mouse) to form aggregation chimeras (see, *e.g.*, Bradley, *Teratocarcinomas and Embryonic Stem Cells: A Practical Approach*, Robertson, Ed., IRL, Oxford, 1987, pp. 113-152). A chimeric embryo can then be implanted into a suitable pseudopregnant

female foster animal and the embryo brought to term. Progeny harboring the homologously recombined DNA in their germ cells can be used to breed animals in which all cells of the animal contain the homologously recombined DNA by germline transmission of the transgene. Methods for constructing homologous recombination  
5 vectors and homologous recombinant animals are described further in Bradley (1991) *Current Opinion in Bio/Technology* 2:823-829 and in PCT Publication NOS. WO 90/11354, WO 91/01140, WO 92/0968, and WO 93/04169.

In another embodiment, transgenic non-human animals can be produced which contain selected systems which allow for regulated expression of the transgene. One  
10 example of such a system is the *cre/loxP* recombinase system of bacteriophage P1. For a description of the *cre/loxP* recombinase system, see, *e.g.*, Lakso *et al.* (1992) *Proc. Natl. Acad. Sci. USA* 89:6232-6236. Another example of a recombinase system is the FLP recombinase system of *Saccharomyces cerevisiae* (O'Gorman *et al.*, 1991, *Science* 251:1351-1355). If a *cre/loxP* recombinase system is used to regulate expression of the  
15 transgene, animals containing transgenes encoding both the *Cre* recombinase and a selected protein are required. Such animals can be provided through the construction of "double" transgenic animals, *e.g.*, by mating two transgenic animals, one containing a transgene encoding a selected protein and the other containing a transgene encoding a recombinase.

20 Clones of the non-human transgenic animals described herein can also be produced according to the methods described in Wilmot *et al.* (1997) *Nature* 385:810-813 and PCT Publication NOS. WO 97/07668 and WO 97/07669.

#### IV. Pharmaceutical Compositions

25 The nucleic acid molecules, polypeptides, and antibodies (also referred to herein as "active compounds") corresponding to a marker of the invention can be incorporated into pharmaceutical compositions suitable for administration. Such compositions typically comprise the nucleic acid molecule, protein, or antibody and a pharmaceutically acceptable carrier. As used herein the language "pharmaceutically  
30 acceptable carrier" is intended to include any and all solvents, dispersion media, coatings, antibacterial and antifungal agents, isotonic and absorption delaying agents, and the like, compatible with pharmaceutical administration. The use of such media and

agents for pharmaceutically active substances is well known in the art. Except insofar as any conventional media or agent is incompatible with the active compound, use thereof in the compositions is contemplated. Supplementary active compounds can also be incorporated into the compositions.

5           The invention includes methods for preparing pharmaceutical compositions for modulating the expression or activity of a polypeptide or nucleic acid corresponding to a marker of the invention. Such methods comprise formulating a pharmaceutically acceptable carrier with an agent which modulates expression or activity of a polypeptide or nucleic acid corresponding to a marker of the invention. Such compositions can  
10 further include additional active agents. Thus, the invention further includes methods for preparing a pharmaceutical composition by formulating a pharmaceutically acceptable carrier with an agent which modulates expression or activity of a polypeptide or nucleic acid corresponding to a marker of the invention and one or more additional active compounds.

15           The invention also provides methods (also referred to herein as "screening assays") for identifying modulators, *i.e.*, candidate or test compounds or agents (*e.g.*, peptides, peptidomimetics, peptoids, small molecules or other drugs) which (a) bind to the marker, or (b) have a modulatory (*e.g.*, stimulatory or inhibitory) effect on the activity of the marker or, more specifically, (c) have a modulatory effect on the  
20 interactions of the marker with one or more of its natural substrates (*e.g.*, peptide, protein, hormone, co-factor, or nucleic acid), or (d) have a modulatory effect on the expression of the marker. Such assays typically comprise a reaction between the marker and one or more assay components. The other components may be either the test compound itself, or a combination of test compound and a natural binding partner of the  
25 marker.

          The test compounds of the present invention may be obtained from any available source, including systematic libraries of natural and/or synthetic compounds. Test compounds may also be obtained by any of the numerous approaches in combinatorial library methods known in the art, including: biological libraries; peptoid libraries  
30 (libraries of molecules having the functionalities of peptides, but with a novel, non-peptide backbone which are resistant to enzymatic degradation but which nevertheless remain bioactive; see, *e.g.*, Zuckermann *et al.*, 1994, *J. Med. Chem.* 37:2678-85);

spatially addressable parallel solid phase or solution phase libraries; synthetic library methods requiring deconvolution; the 'one-bead one-compound' library method; and synthetic library methods using affinity chromatography selection. The biological library and peptoid library approaches are limited to peptide libraries, while the other  
5 four approaches are applicable to peptide, non-peptide oligomer or small molecule libraries of compounds (Lam, 1997, *Anticancer Drug Des.* 12:145).

Examples of methods for the synthesis of molecular libraries can be found in the art, for example in: DeWitt *et al.* (1993) *Proc. Natl. Acad. Sci. U.S.A.* 90:6909; Erb *et al.* (1994) *Proc. Natl. Acad. Sci. USA* 91:11422; Zuckermann *et al.* (1994). *J. Med.*  
10 *Chem.* 37:2678; Cho *et al.* (1993) *Science* 261:1303; Carrell *et al.* (1994) *Angew. Chem. Int. Ed. Engl.* 33:2059; Carrell *et al.* (1994) *Angew. Chem. Int. Ed. Engl.* 33:2061; and in Gallop *et al.* (1994) *J. Med. Chem.* 37:1233.

Libraries of compounds may be presented in solution (*e.g.*, Houghten, 1992, *Biotechniques* 13:412-421), or on beads (Lam, 1991, *Nature* 354:82-84), chips (Fodor,  
15 1993, *Nature* 364:555-556), bacteria and/or spores, (Ladner, USP 5,223,409), plasmids (Cull *et al.*, 1992, *Proc Natl Acad Sci USA* 89:1865-1869) or on phage (Scott and Smith, 1990, *Science* 249:386-390; Devlin, 1990, *Science* 249:404-406; Cwirla *et al.*, 1990, *Proc. Natl. Acad. Sci.* 87:6378-6382; Felici, 1991; *J. Mol. Biol.* 222:301-310; Ladner, *supra.*).

20 In one embodiment, the invention provides assays for screening candidate or test compounds which are substrates of a marker or biologically active portion thereof. In another embodiment, the invention provides assays for screening candidate or test compounds which bind to a marker or biologically active portion thereof. Determining the ability of the test compound to directly bind to a marker can be accomplished, for  
25 example, by coupling the compound with a radioisotope or enzymatic label such that binding of the compound to the marker can be determined by detecting the labeled marker compound in a complex. For example, compounds (*e.g.*, marker substrates) can be labeled with  $^{125}\text{I}$ ,  $^{35}\text{S}$ ,  $^{14}\text{C}$ , or  $^3\text{H}$ , either directly or indirectly, and the radioisotope detected by direct counting of radioemission or by scintillation counting. Alternatively,  
30 assay components can be enzymatically labeled with, for example, horseradish peroxidase, alkaline phosphatase, or luciferase, and the enzymatic label detected by determination of conversion of an appropriate substrate to product.

In another embodiment, the invention provides assays for screening candidate or test compounds which modulate the activity of a marker or a biologically active portion thereof. In all likelihood, the marker can, *in vivo*, interact with one or more molecules, such as but not limited to, peptides, proteins, hormones, cofactors and nucleic acids. For the purposes of this discussion, such cellular and extracellular molecules are referred to herein as "binding partners" or marker "substrate".

One necessary embodiment of the invention in order to facilitate such screening is the use of the marker to identify its natural *in vivo* binding partners. There are many ways to accomplish this which are known to one skilled in the art. One example is the use of the marker protein as "bait protein" in a two-hybrid assay or three-hybrid assay (see, *e.g.*, U.S. Patent No. 5,283,317; Zervos *et al*, 1993, *Cell* 72:223-232; Madura *et al*, 1993, *J. Biol. Chem.* 268:12046-12054; Bartel *et al*, 1993, *Biotechniques* 14:920-924; Iwabuchi *et al*, 1993 *Oncogene* 8:1693-1696; Brent WO94/10300) in order to identify other proteins which bind to or interact with the marker (binding partners) and, therefore, are possibly involved in the natural function of the marker. Such marker binding partners are also likely to be involved in the propagation of signals by the marker or downstream elements of a marker-mediated signaling pathway. Alternatively, such marker binding partners may also be found to be inhibitors of the marker.

The two-hybrid system is based on the modular nature of most transcription factors, which consist of separable DNA-binding and activation domains. Briefly, the assay utilizes two different DNA constructs. In one construct, the gene that encodes a marker protein fused to a gene encoding the DNA binding domain of a known transcription factor (*e.g.*, GAL-4). In the other construct, a DNA sequence, from a library of DNA sequences, that encodes an unidentified protein ("prey" or "sample") is fused to a gene that codes for the activation domain of the known transcription factor. If the "bait" and the "prey" proteins are able to interact, *in vivo*, forming a marker-dependent complex, the DNA-binding and activation domains of the transcription factor are brought into close proximity. This proximity allows transcription of a reporter gene (*e.g.*, LacZ) which is operably linked to a transcriptional regulatory site responsive to the transcription factor. Expression of the reporter gene can be readily detected and cell colonies containing the functional transcription factor can be isolated and used to obtain the cloned gene which encodes the protein which interacts with the marker protein.



In a further embodiment, assays may be devised through the use of the invention for the purpose of identifying compounds which modulate (*e.g.*, affect either positively or negatively) interactions between a marker and its substrates and/or binding partners. Such compounds can include, but are not limited to, molecules such as antibodies, peptides, hormones, oligonucleotides, nucleic acids, and analogs thereof. Such compounds may also be obtained from any available source, including systematic libraries of natural and/or synthetic compounds. The preferred assay components for use in this embodiment is an cervical cancer marker identified herein, the known binding partner and/or substrate of same, and the test compound. Test compounds can be supplied from any source.

The basic principle of the assay systems used to identify compounds that interfere with the interaction between the marker and its binding partner involves preparing a reaction mixture containing the marker and its binding partner under conditions and for a time sufficient to allow the two products to interact and bind, thus forming a complex. In order to test an agent for inhibitory activity, the reaction mixture is prepared in the presence and absence of the test compound. The test compound can be initially included in the reaction mixture, or can be added at a time subsequent to the addition of the marker and its binding partner. Control reaction mixtures are incubated without the test compound or with a placebo. The formation of any complexes between the marker and its binding partner is then detected. The formation of a complex in the control reaction, but less or no such formation in the reaction mixture containing the test compound, indicates that the compound interferes with the interaction of the marker and its binding partner. Conversely, the formation of more complex in the presence of compound than in the control reaction indicates that the compound may enhance interaction of the marker and its binding partner.

The assay for compounds that interfere with the interaction of the marker with its binding partner may be conducted in a heterogeneous or homogeneous format. Heterogeneous assays involve anchoring either the marker or its binding partner onto a solid phase and detecting complexes anchored to the solid phase at the end of the reaction. In homogeneous assays, the entire reaction is carried out in a liquid phase. In either approach, the order of addition of reactants can be varied to obtain different information about the compounds being tested. For example, test compounds that

interfere with the interaction between the markers and the binding partners (*e.g.*, by competition) can be identified by conducting the reaction in the presence of the test substance, *i.e.*, by adding the test substance to the reaction mixture prior to or simultaneously with the marker and its interactive binding partner. Alternatively, test compounds that disrupt preformed complexes, *e.g.*, compounds with higher binding constants that displace one of the components from the complex, can be tested by adding the test compound to the reaction mixture after complexes have been formed. The various formats are briefly described below.

In a heterogeneous assay system, either the marker or its binding partner is anchored onto a solid surface or matrix, while the other corresponding non-anchored component may be labeled, either directly or indirectly. In practice, microtitre plates are often utilized for this approach. The anchored species can be immobilized by a number of methods, either non-covalent or covalent, that are typically well known to one who practices the art. Non-covalent attachment can often be accomplished simply by coating the solid surface with a solution of the marker or its binding partner and drying. Alternatively, an immobilized antibody specific for the assay component to be anchored can be used for this purpose. Such surfaces can often be prepared in advance and stored.

In related embodiments, a fusion protein can be provided which adds a domain that allows one or both of the assay components to be anchored to a matrix. For example, glutathione-S-transferase/marker fusion proteins or glutathione-S-transferase/binding partner can be adsorbed onto glutathione sepharose beads (Sigma Chemical, St. Louis, MO) or glutathione derivatized microtiter plates, which are then combined with the test compound or the test compound and either the non-adsorbed marker or its binding partner, and the mixture incubated under conditions conducive to complex formation (*e.g.*, physiological conditions). Following incubation, the beads or microtiter plate wells are washed to remove any unbound assay components, the immobilized complex assessed either directly or indirectly, for example, as described above. Alternatively, the complexes can be dissociated from the matrix, and the level of marker binding or activity determined using standard techniques.

Other techniques for immobilizing proteins on matrices can also be used in the screening assays of the invention. For example, either a marker or a marker binding partner can be immobilized utilizing conjugation of biotin and streptavidin. Biotinylated

marker protein or target molecules can be prepared from biotin-NHS (N-hydroxy-succinimide) using techniques known in the art (*e.g.*, biotinylation kit, Pierce Chemicals, Rockford, IL), and immobilized in the wells of streptavidin-coated 96 well plates (Pierce Chemical). In certain embodiments, the protein-immobilized surfaces can be prepared in  
5 advance and stored.

In order to conduct the assay, the corresponding partner of the immobilized assay component is exposed to the coated surface with or without the test compound. After the reaction is complete, unreacted assay components are removed (*e.g.*, by washing) and any complexes formed will remain immobilized on the solid surface. The detection  
10 of complexes anchored on the solid surface can be accomplished in a number of ways. Where the non-immobilized component is pre-labeled, the detection of label immobilized on the surface indicates that complexes were formed. Where the non-immobilized component is not pre-labeled, an indirect label can be used to detect complexes anchored on the surface; *e.g.*, using a labeled antibody specific for the  
15 initially non-immobilized species (the antibody, in turn, can be directly labeled or indirectly labeled with, *e.g.*, a labeled anti-Ig antibody). Depending upon the order of addition of reaction components, test compounds which modulate (inhibit or enhance) complex formation or which disrupt preformed complexes can be detected.

In an alternate embodiment of the invention, a homogeneous assay may be used.  
20 This is typically a reaction, analogous to those mentioned above, which is conducted in a liquid phase in the presence or absence of the test compound. The formed complexes are then separated from unreacted components, and the amount of complex formed is determined. As mentioned for heterogeneous assay systems, the order of addition of reactants to the liquid phase can yield information about which test compounds  
25 modulate (inhibit or enhance) complex formation and which disrupt preformed complexes.

In such a homogeneous assay, the reaction products may be separated from unreacted assay components by any of a number of standard techniques, including but not limited to: differential centrifugation, chromatography, electrophoresis and  
30 immunoprecipitation. In differential centrifugation, complexes of molecules may be separated from uncomplexed molecules through a series of centrifugal steps, due to the different sedimentation equilibria of complexes based on their different sizes and

densities (see, for example, Rivas, G., and Minton, A.P., *Trends Biochem Sci* 1993 Aug;18(8):284-7). Standard chromatographic techniques may also be utilized to separate complexed molecules from uncomplexed ones. For example, gel filtration chromatography separates molecules based on size, and through the utilization of an appropriate gel filtration resin in a column format, for example, the relatively larger complex may be separated from the relatively smaller uncomplexed components. Similarly, the relatively different charge properties of the complex as compared to the uncomplexed molecules may be exploited to differentially separate the complex from the remaining individual reactants, for example through the use of ion-exchange chromatography resins. Such resins and chromatographic techniques are well known to one skilled in the art (see, *e.g.*, Heegaard, 1998, *J Mol. Recognit.* 11:141-148; Hage and Tweed, 1997, *J. Chromatogr. B. Biomed. Sci. Appl.*, 699:499-525). Gel electrophoresis may also be employed to separate complexed molecules from unbound species (see, *e.g.*, Ausubel *et al* (eds.), In: *Current Protocols in Molecular Biology*, J. Wiley & Sons, New York. 1999). In this technique, protein or nucleic acid complexes are separated based on size or charge, for example. In order to maintain the binding interaction during the electrophoretic process, nondenaturing gels in the absence of reducing agent are typically preferred, but conditions appropriate to the particular interactants will be well known to one skilled in the art. Immunoprecipitation is another common technique utilized for the isolation of a protein-protein complex from solution (see, *e.g.*, Ausubel *et al* (eds.), In: *Current Protocols in Molecular Biology*, J. Wiley & Sons, New York. 1999). In this technique, all proteins binding to an antibody specific to one of the binding molecules are precipitated from solution by conjugating the antibody to a polymer bead that may be readily collected by centrifugation. The bound assay components are released from the beads (through a specific proteolysis event or other technique well known in the art which will not disturb the protein-protein interaction in the complex), and a second immunoprecipitation step is performed, this time utilizing antibodies specific for the correspondingly different interacting assay component. In this manner, only formed complexes should remain attached to the beads. Variations in complex formation in both the presence and the absence of a test compound can be compared, thus offering information about the ability of the compound to modulate interactions between the marker and its binding partner.

Also within the scope of the present invention are methods for direct detection of interactions between the marker and its natural binding partner and/or a test compound in a homogeneous or heterogeneous assay system without further sample manipulation. For example, the technique of fluorescence energy transfer may be utilized (see, *e.g.*,  
5 Lakowicz *et al*, U.S. Patent No. 5,631,169; Stavrianopoulos *et al*, U.S. Patent No. 4,868,103). Generally, this technique involves the addition of a fluorophore label on a first 'donor' molecule (*e.g.*, marker or test compound) such that its emitted fluorescent energy will be absorbed by a fluorescent label on a second, 'acceptor' molecule (*e.g.*, marker or test compound), which in turn is able to fluoresce due to the absorbed energy.  
10 Alternately, the 'donor' protein molecule may simply utilize the natural fluorescent energy of tryptophan residues. Labels are chosen that emit different wavelengths of light, such that the 'acceptor' molecule label may be differentiated from that of the 'donor'. Since the efficiency of energy transfer between the labels is related to the distance separating the molecules, spatial relationships between the molecules can be  
15 assessed. In a situation in which binding occurs between the molecules, the fluorescent emission of the 'acceptor' molecule label in the assay should be maximal. An FET binding event can be conveniently measured through standard fluorometric detection means well known in the art (*e.g.*, using a fluorimeter). A test substance which either enhances or hinders participation of one of the species in the preformed complex will  
20 result in the generation of a signal variant to that of background. In this way, test substances that modulate interactions between a marker and its binding partner can be identified in controlled assays.

In another embodiment, modulators of marker expression are identified in a method wherein a cell is contacted with a candidate compound and the expression of  
25 mRNA or protein, corresponding to a marker in the cell, is determined. The level of expression of mRNA or protein in the presence of the candidate compound is compared to the level of expression of mRNA or protein in the absence of the candidate compound. The candidate compound can then be identified as a modulator of marker expression based on this comparison. For example, when expression of marker mRNA  
30 or protein is greater (statistically significantly greater) in the presence of the candidate compound than in its absence, the candidate compound is identified as a stimulator of marker mRNA or protein expression. Conversely, when expression of marker mRNA

or protein is less (statistically significantly less) in the presence of the candidate compound than in its absence, the candidate compound is identified as an inhibitor of marker mRNA or protein expression. The level of marker mRNA or protein expression in the cells can be determined by methods described herein for detecting marker mRNA  
5 or protein.

In another aspect, the invention pertains to a combination of two or more of the assays described herein. For example, a modulating agent can be identified using a cell-based or a cell free assay, and the ability of the agent to modulate the activity of a marker protein can be further confirmed *in vivo*, *e.g.*, in a whole animal model for  
10 cellular transformation and/or tumorigenesis.

This invention further pertains to novel agents identified by the above-described screening assays. Accordingly, it is within the scope of this invention to further use an agent identified as described herein in an appropriate animal model. For example, an agent identified as described herein (*e.g.*, an marker modulating agent, an antisense  
15 marker nucleic acid molecule, an marker-specific antibody, or an marker-binding partner) can be used in an animal model to determine the efficacy, toxicity, or side effects of treatment with such an agent. Alternatively, an agent identified as described herein can be used in an animal model to determine the mechanism of action of such an agent. Furthermore, this invention pertains to uses of novel agents identified by the  
20 above-described screening assays for treatments as described herein.

It is understood that appropriate doses of small molecule agents and protein or polypeptide agents depends upon a number of factors within the knowledge of the ordinarily skilled physician, veterinarian, or researcher. The dose(s) of these agents will vary, for example, depending upon the identity, size, and condition of the subject or  
25 sample being treated, further depending upon the route by which the composition is to be administered, if applicable, and the effect which the practitioner desires the agent to have upon the nucleic acid or polypeptide of the invention. Exemplary doses of a small molecule include milligram or microgram amounts per kilogram of subject or sample weight (*e.g.* about 1 microgram per kilogram to about 500 milligrams per kilogram,  
30 about 100 micrograms per kilogram to about 5 milligrams per kilogram, or about 1 microgram per kilogram to about 50 micrograms per kilogram). Exemplary doses of a protein or polypeptide include gram, milligram or microgram amounts per kilogram of

subject or sample weight (*e.g.* about 1 microgram per kilogram to about 5 grams per kilogram, about 100 micrograms per kilogram to about 500 milligrams per kilogram, or about 1 milligram per kilogram to about 50 milligrams per kilogram). It is furthermore understood that appropriate doses of one of these agents depend upon the potency of the agent with respect to the expression or activity to be modulated. Such appropriate doses can be determined using the assays described herein. When one or more of these agents is to be administered to an animal (*e.g.* a human) in order to modulate expression or activity of a polypeptide or nucleic acid of the invention, a physician, veterinarian, or researcher can, for example, prescribe a relatively low dose at first, subsequently increasing the dose until an appropriate response is obtained. In addition, it is understood that the specific dose level for any particular animal subject will depend upon a variety of factors including the activity of the specific agent employed, the age, body weight, general health, gender, and diet of the subject, the time of administration, the route of administration, the rate of excretion, any drug combination, and the degree of expression or activity to be modulated.

A pharmaceutical composition of the invention is formulated to be compatible with its intended route of administration. Examples of routes of administration include parenteral, *e.g.*, intravenous, intradermal, subcutaneous, oral (*e.g.*, inhalation), transdermal (topical), transmucosal, and rectal administration. Solutions or suspensions used for parenteral, intradermal, or subcutaneous application can include the following components: a sterile diluent such as water for injection, saline solution, fixed oils, polyethylene glycols, glycerine, propylene glycol or other synthetic solvents; antibacterial agents such as benzyl alcohol or methyl parabens; antioxidants such as ascorbic acid or sodium bisulfite; chelating agents such as ethylenediamine-tetraacetic acid; buffers such as acetates, citrates or phosphates and agents for the adjustment of tonicity such as sodium chloride or dextrose. pH can be adjusted with acids or bases, such as hydrochloric acid or sodium hydroxide. The parenteral preparation can be enclosed in ampules, disposable syringes or multiple dose vials made of glass or plastic.

Pharmaceutical compositions suitable for injectable use include sterile aqueous solutions (where water soluble) or dispersions and sterile powders for the extemporaneous preparation of sterile injectable solutions or dispersions. For intravenous administration, suitable carriers include physiological saline, bacteriostatic

- water, Cremophor EL (BASF; Parsippany, NJ) or phosphate buffered saline (PBS). In all cases, the composition must be sterile and should be fluid to the extent that easy syringability exists. It must be stable under the conditions of manufacture and storage and must be preserved against the contaminating action of microorganisms such as
- 5 bacteria and fungi. The carrier can be a solvent or dispersion medium containing, for example, water, ethanol, polyol (for example, glycerol, propylene glycol, and liquid polyethylene glycol, and the like), and suitable mixtures thereof. The proper fluidity can be maintained, for example, by the use of a coating such as lecithin, by the maintenance of the required particle size in the case of dispersion and by the use of surfactants.
- 10 Prevention of the action of microorganisms can be achieved by various antibacterial and antifungal agents, for example, parabens, chlorobutanol, phenol, ascorbic acid, thimerosal, and the like. In many cases, it will be preferable to include isotonic agents, for example, sugars, polyalcohols such as mannitol, sorbitol, or sodium chloride in the composition. Prolonged absorption of the injectable compositions can be brought about
- 15 by including in the composition an agent which delays absorption, for example, aluminum monostearate and gelatin.

Sterile injectable solutions can be prepared by incorporating the active compound (*e.g.*, a polypeptide or antibody) in the required amount in an appropriate solvent with one or a combination of ingredients enumerated above, as required,

20 followed by filtered sterilization. Generally, dispersions are prepared by incorporating the active compound into a sterile vehicle which contains a basic dispersion medium, and then incorporating the required other ingredients from those enumerated above. In the case of sterile powders for the preparation of sterile injectable solutions, the preferred methods of preparation are vacuum drying and freeze-drying which yields a

25 powder of the active ingredient plus any additional desired ingredient from a previously sterile-filtered solution thereof.

Oral compositions generally include an inert diluent or an edible carrier. They can be enclosed in gelatin capsules or compressed into tablets. For the purpose of oral therapeutic administration, the active compound can be incorporated with excipients and

30 used in the form of tablets, troches, or capsules. Oral compositions can also be prepared using a fluid carrier for use as a mouthwash, wherein the compound in the fluid carrier is applied orally and swished and expectorated or swallowed.



Pharmaceutically compatible binding agents, and/or adjuvant materials can be included as part of the composition. The tablets, pills, capsules, troches, and the like can contain any of the following ingredients, or compounds of a similar nature: a binder such as microcrystalline cellulose, gum tragacanth or gelatin; an excipient such as starch or lactose, a disintegrating agent such as alginic acid, Primogel, or corn starch; a lubricant such as magnesium stearate or Sterotes; a glidant such as colloidal silicon dioxide; a sweetening agent such as sucrose or saccharin; or a flavoring agent such as peppermint, methyl salicylate, or orange flavoring.

For administration by inhalation, the compounds are delivered in the form of an aerosol spray from a pressurized container or dispenser which contains a suitable propellant, *e.g.*, a gas such as carbon dioxide, or a nebulizer.

Systemic administration can also be by transmucosal or transdermal means. For transmucosal or transdermal administration, penetrants appropriate to the barrier to be permeated are used in the formulation. Such penetrants are generally known in the art, and include, for example, for transmucosal administration, detergents, bile salts, and fusidic acid derivatives. Transmucosal administration can be accomplished through the use of nasal sprays or suppositories. For transdermal administration, the active compounds are formulated into ointments, salves, gels, or creams as generally known in the art.

The compounds can also be prepared in the form of suppositories (*e.g.*, with conventional suppository bases such as cocoa butter and other glycerides) or retention enemas for rectal delivery.

In one embodiment, the active compounds are prepared with carriers that will protect the compound against rapid elimination from the body, such as a controlled release formulation, including implants and microencapsulated delivery systems. Biodegradable, biocompatible polymers can be used, such as ethylene vinyl acetate, polyanhydrides, polyglycolic acid, collagen, polyorthoesters, and polylactic acid. Methods for preparation of such formulations will be apparent to those skilled in the art. The materials can also be obtained commercially from Alza Corporation and Nova Pharmaceuticals, Inc. Liposomal suspensions (including liposomes having monoclonal antibodies incorporated therein or thereon) can also be used as pharmaceutically

acceptable carriers. These can be prepared according to methods known to those skilled in the art, for example, as described in U.S. Patent No. 4,522,811.

It is especially advantageous to formulate oral or parenteral compositions in dosage unit form for ease of administration and uniformity of dosage. Dosage unit form  
5 as used herein refers to physically discrete units suited as unitary dosages for the subject to be treated; each unit containing a predetermined quantity of active compound calculated to produce the desired therapeutic effect in association with the required pharmaceutical carrier. The specification for the dosage unit forms of the invention are dictated by and directly dependent on the unique characteristics of the active compound  
10 and the particular therapeutic effect to be achieved, and the limitations inherent in the art of compounding such an active compound for the treatment of individuals.

For antibodies, the preferred dosage is 0.1 mg/kg to 100 mg/kg of body weight (generally 10 mg/kg to 20 mg/kg). If the antibody is to act in the brain, a dosage of 50 mg/kg to 100 mg/kg is usually appropriate. Generally, partially human antibodies and  
15 fully human antibodies have a longer half-life within the human body than other antibodies. Accordingly, lower dosages and less frequent administration is often possible. Modifications such as lipidation can be used to stabilize antibodies and to enhance uptake and tissue penetration (*e.g.*, into the cervical epithelium). A method for lipidation of antibodies is described by Cruikshank *et al.* (1997) *J. Acquired Immune*  
20 *Deficiency Syndromes and Human Retrovirology* 14:193.

The nucleic acid molecules corresponding to a marker of the invention can be inserted into vectors and used as gene therapy vectors. Gene therapy vectors can be delivered to a subject by, for example, intravenous injection, local administration (U.S. Patent 5,328,470), or by stereotactic injection (see, *e.g.*, Chen *et al.*, 1994, *Proc. Natl.*  
25 *Acad. Sci. USA* 91:3054-3057). The pharmaceutical preparation of the gene therapy vector can include the gene therapy vector in an acceptable diluent, or can comprise a slow release matrix in which the gene delivery vehicle is imbedded. Alternatively, where the complete gene delivery vector can be produced intact from recombinant cells, *e.g.* retroviral vectors, the pharmaceutical preparation can include one or more cells  
30 which produce the gene delivery system.

The pharmaceutical compositions can be included in a container, pack, or dispenser together with instructions for administration.

### V. Computer Readable Means and Arrays

Computer readable media comprising a marker(s) of the present invention is also provided. As used herein, "computer readable media" refers to any medium that can be read and accessed directly by a computer. Such media include, but are not limited to:

5 magnetic storage media, such as floppy discs, hard disc storage medium, and magnetic tape; optical storage media such as CD-ROM; electrical storage media such as RAM and ROM; and hybrids of these categories such as magnetic/optical storage media. The skilled artisan will readily appreciate how any of the presently known computer readable mediums can be used to create a manufacture comprising computer readable medium

10 having recorded thereon a marker of the present invention.

As used herein, "recorded" refers to a process for storing information on computer readable medium. Those skilled in the art can readily adopt any of the presently known methods for recording information on computer readable medium to generate manufactures comprising the markers of the present invention.

15 A variety of data processor programs and formats can be used to store the marker information of the present invention on computer readable medium. For example, the nucleic acid sequence corresponding to the markers can be represented in a word processing text file, formatted in commercially-available software such as WordPerfect and MicroSoft Word, or represented in the form of an ASCII file, stored in a database

20 application, such as DB2, Sybase, Oracle, or the like. Any number of dataprocessor structuring formats (*e.g.*, text file or database) may be adapted in order to obtain computer readable medium having recorded thereon the markers of the present invention.

By providing the markers of the invention in computer readable form, one can

25 routinely access the marker sequence information for a variety of purposes. For example, one skilled in the art can use the nucleotide or amino acid sequences of the invention in computer readable form to compare a target sequence or target structural motif with the sequence information stored within the data storage means. Search means are used to identify fragments or regions of the sequences of the invention which

30 match a particular target sequence or target motif.

The invention also includes an array comprising a marker(s) of the present invention. The array can be used to assay expression of one or more genes in the array. In one embodiment, the array can be used to assay gene expression in a tissue to ascertain tissue specificity of genes in the array. In this manner, up to about 7600 genes  
5 can be simultaneously assayed for expression. This allows a profile to be developed showing a battery of genes specifically expressed in one or more tissues.

In addition to such qualitative determination, the invention allows the quantitation of gene expression. Thus, not only tissue specificity, but also the level of expression of a battery of genes in the tissue is ascertainable. Thus, genes can be  
10 grouped on the basis of their tissue expression *per se* and level of expression in that tissue. This is useful, for example, in ascertaining the relationship of gene expression between or among tissues. Thus, one tissue can be perturbed and the effect on gene expression in a second tissue can be determined. In this context, the effect of one cell type on another cell type in response to a biological stimulus can be determined. Such a  
15 determination is useful, for example, to know the effect of cell-cell interaction at the level of gene expression. If an agent is administered therapeutically to treat one cell type but has an undesirable effect on another cell type, the invention provides an assay to determine the molecular basis of the undesirable effect and thus provides the opportunity to co-administer a counteracting agent or otherwise treat the undesired  
20 effect. Similarly, even within a single cell type, undesirable biological effects can be determined at the molecular level. Thus, the effects of an agent on expression of other than the target gene can be ascertained and counteracted.

In another embodiment, the array can be used to monitor the time course of expression of one or more genes in the array. This can occur in various biological  
25 contexts, as disclosed herein, for example development and differentiation, tumor progression, progression of other diseases, *in vitro* processes, such a cellular transformation and senescence, autonomic neural and neurological processes, such as, for example, pain and appetite, and cognitive functions, such as learning or memory.

The array is also useful for ascertaining the effect of the expression of a gene on  
30 the expression of other genes in the same cell or in different cells. This provides, for example, for a selection of alternate molecular targets for therapeutic intervention if the ultimate or downstream target cannot be regulated.

The array is also useful for ascertaining differential expression patterns of one or more genes in normal and abnormal cells. This provides a battery of genes that could serve as a molecular target for diagnosis or therapeutic intervention.

## 5 VI. Predictive Medicine

The present invention pertains to the field of predictive medicine in which diagnostic assays, prognostic assays, pharmacogenomics, and monitoring clinical trails are used for prognostic (predictive) purposes to thereby treat an individual prophylactically. Accordingly, one aspect of the present invention relates to diagnostic  
10 assays for determining the level of expression of polypeptides or nucleic acids corresponding to one or more markers of the invention, in order to determine whether an individual is at risk of developing cervical cancer. Such assays can be used for prognostic or predictive purposes to thereby prophylactically treat an individual prior to the onset of the cancer.

15 Yet another aspect of the invention pertains to monitoring the influence of agents (*e.g.*, drugs or other compounds administered either to inhibit cervical cancer or to treat or prevent any other disorder {*i.e.* in order to understand any cervical carcinogenic effects that such treatment may have} ) on the expression or activity of a marker of the invention in clinical trials. These and other agents are described in further detail in the  
20 following sections.

### A. Diagnostic Assays

An exemplary method for detecting the presence or absence of a polypeptide or nucleic acid corresponding to a marker of the invention in a biological sample involves  
25 obtaining a biological sample (*e.g.* a cervical smear) from a test subject and contacting the biological sample with a compound or an agent capable of detecting the polypeptide or nucleic acid (*e.g.*, mRNA, genomic DNA, or cDNA). The detection methods of the invention can thus be used to detect mRNA, protein, cDNA, or genomic DNA, for example, in a biological sample *in vitro* as well as *in vivo*. For example, *in vitro*  
30 techniques for detection of mRNA include Northern hybridizations and *in situ* hybridizations. *In vitro* techniques for detection of a polypeptide corresponding to a marker of the invention include enzyme linked immunosorbent assays (ELISAs),

Western blots, immunoprecipitations, immunohistochemistry and immunofluorescence. *In vitro* techniques for detection of genomic DNA include Southern hybridizations. Furthermore, *in vivo* techniques for detection of a polypeptide corresponding to a marker of the invention include introducing into a subject a labeled antibody directed against the polypeptide. For example, the antibody can be labeled with a radioactive marker whose presence and location in a subject can be detected by standard imaging techniques.

A general principle of such diagnostic and prognostic assays involves preparing a sample or reaction mixture that may contain a marker, and a probe, under appropriate conditions and for a time sufficient to allow the marker and probe to interact and bind, thus forming a complex that can be removed and/or detected in the reaction mixture. These assays can be conducted in a variety of ways.

For example, one method to conduct such an assay would involve anchoring the marker or probe onto a solid phase support, also referred to as a substrate, and detecting target marker/probe complexes anchored on the solid phase at the end of the reaction. In one embodiment of such a method, a sample from a subject, which is to be assayed for presence and/or concentration of marker, can be anchored onto a carrier or solid phase support. In another embodiment, the reverse situation is possible, in which the probe can be anchored to a solid phase and a sample from a subject can be allowed to react as an unanchored component of the assay.

There are many established methods for anchoring assay components to a solid phase. These include, without limitation, marker or probe molecules which are immobilized through conjugation of biotin and streptavidin. Such biotinylated assay components can be prepared from biotin-NHS (N-hydroxy-succinimide) using techniques known in the art (*e.g.*, biotinylation kit, Pierce Chemicals, Rockford, IL), and immobilized in the wells of streptavidin-coated 96 well plates (Pierce Chemical). In certain embodiments, the surfaces with immobilized assay components can be prepared in advance and stored.

Other suitable carriers or solid phase supports for such assays include any material capable of binding the class of molecule to which the marker or probe belongs. Well-known supports or carriers include, but are not limited to, glass, polystyrene, nylon, polypropylene, nylon, polyethylene, dextran, amylases, natural and modified celluloses, polyacrylamides, gabbros, and magnetite.

In order to conduct assays with the above mentioned approaches, the non-immobilized component is added to the solid phase upon which the second component is anchored. After the reaction is complete, uncomplexed components may be removed (*e.g.*, by washing) under conditions such that any complexes formed will remain  
5 immobilized upon the solid phase. The detection of marker/probe complexes anchored to the solid phase can be accomplished in a number of methods outlined herein.

In a preferred embodiment, the probe, when it is the unanchored assay component, can be labeled for the purpose of detection and readout of the assay, either directly or indirectly, with detectable labels discussed herein and which are well-known  
10 to one skilled in the art.

It is also possible to directly detect marker/probe complex formation without further manipulation or labeling of either component (marker or probe), for example by utilizing the technique of fluorescence energy transfer (see, for example, Lakowicz *et al.*, U.S. Patent No. 5,631,169; Stavrianopoulos, *et al.*, U.S. Patent No. 4,868,103). A  
15 fluorophore label on the first, 'donor' molecule is selected such that, upon excitation with incident light of appropriate wavelength, its emitted fluorescent energy will be absorbed by a fluorescent label on a second 'acceptor' molecule, which in turn is able to fluoresce due to the absorbed energy. Alternately, the 'donor' protein molecule may simply utilize the natural fluorescent energy of tryptophan residues. Labels are chosen  
20 that emit different wavelengths of light, such that the 'acceptor' molecule label may be differentiated from that of the 'donor'. Since the efficiency of energy transfer between the labels is related to the distance separating the molecules, spatial relationships between the molecules can be assessed. In a situation in which binding occurs between the molecules, the fluorescent emission of the 'acceptor' molecule label in the assay  
25 should be maximal. An FET binding event can be conveniently measured through standard fluorometric detection means well known in the art (*e.g.*, using a fluorimeter).

In another embodiment, determination of the ability of a probe to recognize a marker can be accomplished without labeling either assay component (probe or marker) by utilizing a technology such as real-time Biomolecular Interaction Analysis (BIA)  
30 (see, *e.g.*, Sjolander, S. and Urbaniczky, C., 1991, *Anal. Chem.* 63:2338-2345 and Szabo *et al.*, 1995, *Curr. Opin. Struct. Biol.* 5:699-705). As used herein, "BIA" or "surface plasmon resonance" is a technology for studying biospecific interactions in real

time, without labeling any of the interactants (*e.g.*, BIAcore). Changes in the mass at the binding surface (indicative of a binding event) result in alterations of the refractive index of light near the surface (the optical phenomenon of surface plasmon resonance (SPR)), resulting in a detectable signal which can be used as an indication of real-time reactions  
5 between biological molecules.

Alternatively, in another embodiment, analogous diagnostic and prognostic assays can be conducted with marker and probe as solutes in a liquid phase. In such an assay, the complexed marker and probe are separated from uncomplexed components by any of a number of standard techniques, including but not limited to: differential  
10 centrifugation, chromatography, electrophoresis and immunoprecipitation. In differential centrifugation, marker/probe complexes may be separated from uncomplexed assay components through a series of centrifugal steps, due to the different sedimentation equilibria of complexes based on their different sizes and densities (see, for example, Rivas, G., and Minton, A.P., 1993, *Trends Biochem Sci.* 18(8):284-7).  
15 Standard chromatographic techniques may also be utilized to separate complexed molecules from uncomplexed ones. For example, gel filtration chromatography separates molecules based on size, and through the utilization of an appropriate gel filtration resin in a column format, for example, the relatively larger complex may be separated from the relatively smaller uncomplexed components. Similarly, the  
20 relatively different charge properties of the marker/probe complex as compared to the uncomplexed components may be exploited to differentiate the complex from uncomplexed components, for example through the utilization of ion-exchange chromatography resins. Such resins and chromatographic techniques are well known to one skilled in the art (see, *e.g.*, Heegaard, N.H., 1998, *J. Mol. Recognit.* Winter 11(1-  
25 6):141-8; Hage, D.S., and Tweed, S.A. *J Chromatogr B Biomed Sci Appl* 1997 Oct 10;699(1-2):499-525). Gel electrophoresis may also be employed to separate complexed assay components from unbound components (see, *e.g.*, Ausubel *et al.*, ed., *Current Protocols in Molecular Biology*, John Wiley & Sons, New York, 1987-1999). In this technique, protein or nucleic acid complexes are separated based on size or  
30 charge, for example. In order to maintain the binding interaction during the electrophoretic process, non-denaturing gel matrix materials and conditions in the



absence of reducing agent are typically preferred. Appropriate conditions to the particular assay and components thereof will be well known to one skilled in the art.

In a particular embodiment, the level of mRNA corresponding to the marker can be determined both by *in situ* and by *in vitro* formats in a biological sample using  
5 methods known in the art. The term "biological sample" is intended to include tissues, cells, biological fluids and isolates thereof, isolated from a subject, as well as tissues, cells and fluids present within a subject. Many expression detection methods use isolated RNA. For *in vitro* methods, any RNA isolation technique that does not select against the isolation of mRNA can be utilized for the purification of RNA from cervical  
10 cells (see, e.g., Ausubel *et al.*, ed., *Current Protocols in Molecular Biology*, John Wiley & Sons, New York 1987-1999). Additionally, large numbers of tissue samples can readily be processed using techniques well known to those of skill in the art, such as, for example, the single-step RNA isolation process of Chomczynski (1989, U.S. Patent No. 4,843,155).

15 The isolated mRNA can be used in hybridization or amplification assays that include, but are not limited to, Southern or Northern analyses, polymerase chain reaction analyses and probe arrays. One preferred diagnostic method for the detection of mRNA levels involves contacting the isolated mRNA with a nucleic acid molecule (probe) that can hybridize to the mRNA encoded by the gene being detected. The nucleic acid probe  
20 can be, for example, a full-length cDNA, or a portion thereof, such as an oligonucleotide of at least 7, 15, 30, 50, 100, 250 or 500 nucleotides in length and sufficient to specifically hybridize under stringent conditions to a mRNA or genomic DNA encoding a marker of the present invention. Other suitable probes for use in the diagnostic assays of the invention are described herein. Hybridization of an mRNA with the probe  
25 indicates that the marker in question is being expressed.

In one format, the mRNA is immobilized on a solid surface and contacted with a probe, for example by running the isolated mRNA on an agarose gel and transferring the mRNA from the gel to a membrane, such as nitrocellulose. In an alternative format, the probe(s) are immobilized on a solid surface and the mRNA is contacted with the  
30 probe(s), for example, in an Affymetrix gene chip array. A skilled artisan can readily adapt known mRNA detection methods for use in detecting the level of mRNA encoded by the markers of the present invention.

An alternative method for determining the level of mRNA corresponding to a marker of the present invention in a sample involves the process of nucleic acid amplification, *e.g.*, by rtPCR (the experimental embodiment set forth in Mullis, 1987, U.S. Patent No. 4,683,202), ligase chain reaction (Barany, 1991, *Proc. Natl. Acad. Sci. USA*, 88:189-193), self sustained sequence replication (Guatelli *et al.*, 1990, *Proc. Natl. Acad. Sci. USA* 87:1874-1878), transcriptional amplification system (Kwoh *et al.*, 1989, *Proc. Natl. Acad. Sci. USA* 86:1173-1177), Q-Beta Replicase (Lizardi *et al.*, 1988, *Bio/Technology* 6:1197), rolling circle replication (Lizardi *et al.*, U.S. Patent No. 5,854,033) or any other nucleic acid amplification method, followed by the detection of the amplified molecules using techniques well known to those of skill in the art. These detection schemes are especially useful for the detection of nucleic acid molecules if such molecules are present in very low numbers. As used herein, amplification primers are defined as being a pair of nucleic acid molecules that can anneal to 5' or 3' regions of a gene (plus and minus strands, respectively, or vice-versa) and contain a short region in between. In general, amplification primers are from about 10 to 30 nucleotides in length and flank a region from about 50 to 200 nucleotides in length. Under appropriate conditions and with appropriate reagents, such primers permit the amplification of a nucleic acid molecule comprising the nucleotide sequence flanked by the primers.

For *in situ* methods, mRNA does not need to be isolated from the cervical cells prior to detection. In such methods, a cell or tissue sample is prepared/processed using known histological methods. The sample is then immobilized on a support, typically a glass slide, and then contacted with a probe that can hybridize to mRNA that encodes the marker.

As an alternative to making determinations based on the absolute expression level of the marker, determinations may be based on the normalized expression level of the marker. Expression levels are normalized by correcting the absolute expression level of a marker by comparing its expression to the expression of a gene that is not a marker, *e.g.*, a housekeeping gene that is constitutively expressed. Suitable genes for normalization include housekeeping genes such as the actin gene, or epithelial cell-specific genes. This normalization allows the comparison of the expression level in one sample, *e.g.*, a patient sample, to another sample, *e.g.*, a non-cervical cancer sample, or between samples from different sources.

Alternatively, the expression level can be provided as a relative expression level. To determine a relative expression level of a marker, the level of expression of the marker is determined for 10 or more samples of normal versus cancer cell isolates, preferably 50 or more samples, prior to the determination of the expression level for the sample in question. The mean expression level of each of the genes assayed in the larger number of samples is determined and this is used as a baseline expression level for the marker. The expression level of the marker determined for the test sample (absolute level of expression) is then divided by the mean expression value obtained for that marker. This provides a relative expression level.

10 Preferably, the samples used in the baseline determination will be from cervical cancer or from non-cervical cancer cells of cervical tissue. The choice of the cell source is dependent on the use of the relative expression level. Using expression found in normal tissues as a mean expression score aids in validating whether the marker assayed is cervical specific (versus normal cells). In addition, as more data is accumulated, the mean expression value can be revised, providing improved relative expression values based on accumulated data. Expression data from cervical cells provides a means for grading the severity of the cervical cancer state.

In another embodiment of the present invention, a polypeptide corresponding to a marker is detected. A preferred agent for detecting a polypeptide of the invention is an antibody capable of binding to a polypeptide corresponding to a marker of the invention, preferably an antibody with a detectable label. Antibodies can be polyclonal, or more preferably, monoclonal. An intact antibody, or a fragment thereof (*e.g.*, Fab or F(ab')<sub>2</sub>) can be used. The term "labeled", with regard to the probe or antibody, is intended to encompass direct labeling of the probe or antibody by coupling (*i.e.*, physically linking) a detectable substance to the probe or antibody, as well as indirect labeling of the probe or antibody by reactivity with another reagent that is directly labeled. Examples of indirect labeling include detection of a primary antibody using a fluorescently labeled secondary antibody and end-labeling of a DNA probe with biotin such that it can be detected with fluorescently labeled streptavidin.

30 Proteins from cervical cells can be isolated using techniques that are well known to those of skill in the art. The protein isolation methods employed can, for example, be such as those described in Harlow and Lane (Harlow and Lane, 1988, *Antibodies: A*

*Laboratory Manual*, Cold Spring Harbor Laboratory Press, Cold Spring Harbor, New York).

A variety of formats can be employed to determine whether a sample contains a protein that binds to a given antibody. Examples of such formats include, but are not limited to, enzyme immunoassay (EIA), radioimmunoassay (RIA), Western blot analysis, immunohistochemistry (IHC) and enzyme linked immunoabsorbant assay (ELISA). A skilled artisan can readily adapt known protein/antibody detection methods for use in determining whether cervical cells express a marker of the present invention.

In one format, antibodies, or antibody fragments, can be used in methods such as Western blots, IHC or immunofluorescence techniques to detect the expressed proteins. In such uses, it is generally preferable to immobilize either the antibody, proteins or cell containing proteins on a solid support. Well-known supports or carriers include glass, polystyrene, polypropylene, polyethylene, dextran, nylon, amylases, natural and modified celluloses, polyacrylamides, gabbros, and magnetite.

One skilled in the art will know many other suitable carriers for binding antibody or antigen, and will be able to adapt such support for use with the present invention. For example, protein isolated from cervical cells can be run on a polyacrylamide gel electrophoresis and immobilized onto a solid phase support such as nitrocellulose. The support can then be washed with suitable buffers followed by treatment with the detectably labeled antibody. The solid phase support can then be washed with the buffer a second time to remove unbound antibody. The amount of bound label on the solid support can then be detected by conventional means.

The invention also encompasses kits for detecting the presence of a polypeptide or nucleic acid corresponding to a marker of the invention in a biological sample (e.g. a cervical smear). Such kits can be used to determine if a subject is suffering from or is at increased risk of developing cervical cancer. For example, the kit can comprise a labeled compound or agent capable of detecting a polypeptide or an mRNA encoding a polypeptide corresponding to a marker of the invention in a biological sample and means for determining the amount of the polypeptide or mRNA in the sample (e.g., an antibody which binds the polypeptide or an oligonucleotide probe which binds to DNA or mRNA encoding the polypeptide). Kits can also include instructions for interpreting the results obtained using the kit.

For antibody-based kits, the kit can comprise, for example: (1) a first antibody (*e.g.*, attached to a solid support) which binds to a polypeptide corresponding to a marker of the invention; and, optionally, (2) a second, different antibody which binds to either the polypeptide or the first antibody and is conjugated to a detectable label.

- 5 For oligonucleotide-based kits, the kit can comprise, for example: (1) an oligonucleotide, *e.g.*, a detectably labeled oligonucleotide, which hybridizes to a nucleic acid sequence encoding a polypeptide corresponding to a marker of the invention or (2) a pair of primers useful for amplifying a nucleic acid molecule corresponding to a marker of the invention. The kit can also comprise, *e.g.*, a buffering agent, a  
10 preservative, or a protein stabilizing agent. The kit can further comprise components necessary for detecting the detectable label (*e.g.*, an enzyme or a substrate). The kit can also contain a control sample or a series of control samples which can be assayed and compared to the test sample. Each component of the kit can be enclosed within an individual container and all of the various containers can be within a single package,  
15 along with instructions for interpreting the results of the assays performed using the kit.

#### B. Pharmacogenomics

- Agents or modulators which have a stimulatory or inhibitory effect on expression of a marker of the invention can be administered to individuals to treat (prophylactically  
20 or therapeutically) cervical cancer in the patient. In conjunction with such treatment, the pharmacogenomics (*i.e.*, the study of the relationship between an individual's genotype and that individual's response to a foreign compound or drug) of the individual may be considered. Differences in metabolism of therapeutics can lead to severe toxicity or therapeutic failure by altering the relation between dose and blood concentration of the  
25 pharmacologically active drug. Thus, the pharmacogenomics of the individual permits the selection of effective agents (*e.g.*, drugs) for prophylactic or therapeutic treatments based on a consideration of the individual's genotype. Such pharmacogenomics can further be used to determine appropriate dosages and therapeutic regimens.
- Accordingly, the level of expression of a marker of the invention in an individual can be  
30 determined to thereby select appropriate agent(s) for therapeutic or prophylactic treatment of the individual.

Pharmacogenomics deals with clinically significant variations in the response to drugs due to altered drug disposition and abnormal action in affected persons. See, *e.g.*, Linder (1997) *Clin. Chem.* 43(2):254-266. In general, two types of pharmacogenetic conditions can be differentiated. Genetic conditions transmitted as a single factor altering the way drugs act on the body are referred to as "altered drug action." Genetic conditions transmitted as single factors altering the way the body acts on drugs are referred to as "altered drug metabolism". These pharmacogenetic conditions can occur either as rare defects or as polymorphisms. For example, glucose-6-phosphate dehydrogenase (G6PD) deficiency is a common inherited enzymopathy in which the main clinical complication is hemolysis after ingestion of oxidant drugs (anti-malarials, sulfonamides, analgesics, nitrofurans) and consumption of fava beans.

As an illustrative embodiment, the activity of drug metabolizing enzymes is a major determinant of both the intensity and duration of drug action. The discovery of genetic polymorphisms of drug metabolizing enzymes (*e.g.*, N-acetyltransferase 2 (NAT 2) and cytochrome P450 enzymes CYP2D6 and CYP2C19) has provided an explanation as to why some patients do not obtain the expected drug effects or show exaggerated drug response and serious toxicity after taking the standard and safe dose of a drug. These polymorphisms are expressed in two phenotypes in the population, the extensive metabolizer (EM) and poor metabolizer (PM). The prevalence of PM is different among different populations. For example, the gene coding for CYP2D6 is highly polymorphic and several mutations have been identified in PM, which all lead to the absence of functional CYP2D6. Poor metabolizers of CYP2D6 and CYP2C19 quite frequently experience exaggerated drug response and side effects when they receive standard doses. If a metabolite is the active therapeutic moiety, a PM will show no therapeutic response, as demonstrated for the analgesic effect of codeine mediated by its CYP2D6-formed metabolite morphine. The other extreme are the so called ultra-rapid metabolizers who do not respond to standard doses. Recently, the molecular basis of ultra-rapid metabolism has been identified to be due to CYP2D6 gene amplification.

Thus, the level of expression of a marker of the invention in an individual can be determined to thereby select appropriate agent(s) for therapeutic or prophylactic treatment of the individual. In addition, pharmacogenetic studies can be used to apply genotyping of polymorphic alleles encoding drug-metabolizing enzymes to the

identification of an individual's drug responsiveness phenotype. This knowledge, when applied to dosing or drug selection, can avoid adverse reactions or therapeutic failure and thus enhance therapeutic or prophylactic efficiency when treating a subject with a modulator of expression of a marker of the invention.

5           This invention also provides a process for preparing a database comprising at least one of the markers set forth in Tables 1-4. For example, the polynucleotide sequences are stored in a digital storage medium such that a data processing system for standardized representation of the genes that identify a cervical cancer cell is compiled. The data processing system is useful to analyze gene expression between two cells by  
10 first selecting a cell suspected of being of a neoplastic phenotype or genotype and then isolating polynucleotides from the cell. The isolated polynucleotides are sequenced. The sequences from the sample are compared with the sequence(s) present in the database using homology search techniques. Greater than 90%, more preferably greater than 95% and more preferably, greater than or equal to 97% sequence identity between  
15 the test sequence and the polynucleotides of the present invention is a positive indication that the polynucleotide has been isolated from a cervical cancer cell as defined above.

          In an alternative embodiment, the polynucleotides of this invention are sequenced and the information regarding sequence and in some embodiments, relative expression, is stored in any functionally relevant program, *e.g.*, in Compare Report using  
20 the SAGE software (available through Dr. Ken Kinzler at John Hopkins University). The Compare Report provides a tabulation of the polynucleotide sequences and their abundance for the samples normalized to a defined number of polynucleotides per library (say 25,000). This is then imported into MS-ACCESS either directly or via copying the data into an Excel spreadsheet first and then from there into MS-ACCESS  
25 for additional manipulations. Other programs such as SYBASE or Oracle that permit the comparison of polynucleotide numbers could be used as alternatives to MS-ACCESS. Enhancements to the software can be designed to incorporate these additional functions. These functions consist in standard Boolean, algebraic, and text search operations, applied in various combinations to reduce a large input set of  
30 polynucleotides to a manageable subset of a polynucleotide of specifically defined interest.

One skilled in the art may create groups containing one or more project(s) by combining the counts of specific polynucleotides within a group (*e.g.*,  $\text{GroupNormal} = \text{Normal1} + \text{Normal2}$ ,  $\text{GroupTumor1} + \text{TumorCellLine}$ ). Additional characteristic values are also calculated for each tag in the group (*e.g.*, average count, minimum count, maximum count). One skilled in the art may calculate individual tag count ratios between groups, for example the ratio of the average GroupNormal count to the average GroupTumor count for each polynucleotide. A statistical measure of the significance of observed differences in tag counts between groups may be calculated.

#### 10        C. Monitoring Clinical Trials

Monitoring the influence of agents (*e.g.*, drug compounds) on the level of expression of a marker of the invention can be applied not only in basic drug screening, but also in clinical trials. For example, the effectiveness of an agent to affect marker expression can be monitored in clinical trials of subjects receiving treatment for cervical cancer. In a preferred embodiment, the present invention provides a method for monitoring the effectiveness of treatment of a subject with an agent (*e.g.*, an agonist, antagonist, peptidomimetic, protein, peptide, nucleic acid, small molecule, or other drug candidate) comprising the steps of (i) obtaining a pre-administration sample from a subject prior to administration of the agent; (ii) detecting the level of expression of one or more selected markers of the invention in the pre-administration sample; (iii) obtaining one or more post-administration samples from the subject; (iv) detecting the level of expression of the marker(s) in the post-administration samples; (v) comparing the level of expression of the marker(s) in the pre-administration sample with the level of expression of the marker(s) in the post-administration sample or samples; and (vi) altering the administration of the agent to the subject accordingly. For example, increased administration of the agent can be desirable to increase expression of the marker(s) to higher levels than detected, *i.e.*, to increase the effectiveness of the agent. Alternatively, decreased administration of the agent can be desirable to decrease expression of the marker(s) to lower levels than detected, *i.e.*, to decrease the effectiveness of the agent.



#### D. Surrogate Markers

The markers of the invention may serve as surrogate markers for one or more disorders or disease states or for conditions leading up to disease states, and in particular, cervical cancer. As used herein, a "surrogate marker" is an objective  
5 biochemical marker which correlates with the absence or presence of a disease or disorder, or with the progression of a disease or disorder (*e.g.*, with the presence or absence of a tumor). The presence or quantity of such markers is independent of the disease. Therefore, these markers may serve to indicate whether a particular course of treatment is effective in lessening a disease state or disorder. Surrogate markers are of  
10 particular use when the presence or extent of a disease state or disorder is difficult to assess through standard methodologies (*e.g.*, early stage tumors), or when an assessment of disease progression is desired before a potentially dangerous clinical endpoint is reached (*e.g.*, an assessment of cardiovascular disease may be made using cholesterol levels as a surrogate marker, and an analysis of HIV infection may be made using HIV  
15 RNA levels as a surrogate marker, well in advance of the undesirable clinical outcomes of myocardial infarction or fully-developed AIDS). Examples of the use of surrogate markers in the art include: Koomen *et al.* (2000) *J. Mass. Spectrom.* 35: 258-264; and James (1994) *AIDS Treatment News Archive* 209.

The markers of the invention are also useful as pharmacodynamic markers. As  
20 used herein, a "pharmacodynamic marker" is an objective biochemical marker which correlates specifically with drug effects. The presence or quantity of a pharmacodynamic marker is not related to the disease state or disorder for which the drug is being administered; therefore, the presence or quantity of the marker is indicative of the presence or activity of the drug in a subject. For example, a  
25 pharmacodynamic marker may be indicative of the concentration of the drug in a biological tissue, in that the marker is either expressed or transcribed or not expressed or transcribed in that tissue in relationship to the level of the drug. In this fashion, the distribution or uptake of the drug may be monitored by the pharmacodynamic marker. Similarly, the presence or quantity of the pharmacodynamic marker may be related to  
30 the presence or quantity of the metabolic product of a drug, such that the presence or quantity of the marker is indicative of the relative breakdown rate of the drug *in vivo*. Pharmacodynamic markers are of particular use in increasing the sensitivity of detection

of drug effects, particularly when the drug is administered in low doses. Since even a small amount of a drug may be sufficient to activate multiple rounds of marker transcription or expression, the amplified marker may be in a quantity which is more readily detectable than the drug itself. Also, the marker may be more easily detected  
5 due to the nature of the marker itself; for example, using the methods described herein, antibodies may be employed in an immune-based detection system for a protein marker, or marker-specific radiolabeled probes may be used to detect a mRNA marker. Furthermore, the use of a pharmacodynamic marker may offer mechanism-based prediction of risk due to drug treatment beyond the range of possible direct  
10 observations. Examples of the use of pharmacodynamic markers in the art include: Matsuda *et al.* US 6,033,862; Hattis *et al.* (1991) *Env. Health Perspect.* 90: 229-238; Schentag (1999) *Am. J. Health-Syst. Pharm.* 56 Suppl. 3: S21-S24; and Nicolau (1999) *Am. J. Health-Syst. Pharm.* 56 Suppl. 3: S16-S20.

The markers of the invention are also useful as pharmacogenomic markers. As  
15 used herein, a "pharmacogenomic marker" is an objective biochemical marker which correlates with a specific clinical drug response or susceptibility in a subject (see, e.g., McLeod *et al.* (1999) *Eur. J. Cancer* 35(12): 1650-1652). The presence or quantity of the pharmacogenomic marker is related to the predicted response of the subject to a specific drug or class of drugs prior to administration of the drug. By assessing the  
20 presence or quantity of one or more pharmacogenomic markers in a subject, a drug therapy which is most appropriate for the subject, or which is predicted to have a greater degree of success, may be selected. For example, based on the presence or quantity of RNA or protein for specific tumor markers in a subject, a drug or course of treatment may be selected that is optimized for the treatment of the specific tumor likely to be  
25 present in the subject. Similarly, the presence or absence of a specific sequence mutation in marker DNA may correlate with drug response. The use of pharmacogenomic markers therefore permits the application of the most appropriate treatment for each subject without having to administer the therapy.

## VII. Experimental Protocol

### A. Subtracted Libraries

Subtracted libraries are generated using a PCR based method that allows the  
5 isolation of clones expressed at higher levels in one population of mRNA (tester)  
compared to another population (driver). Both tester and driver mRNA populations are  
converted into cDNA by reverse transcription, and then PCR amplified using the  
SMART PCR kit from Clontech. Tester and driver cDNAs are then hybridized using  
the PCR-Select cDNA subtraction kit from Clontech. This technique results in both  
10 subtraction and normalization, which is an equalization of copy number of low-  
abundance and high-abundance sequences. After generation of the subtractive libraries,  
a group of 96 or more clones from each library is tested to confirm differential  
expression by reverse Southern hybridization.

SEQ ID NOS: 1-705 were identified through the above-described subtractive  
15 library hybridization technique, wherein the "tester" source for the subtracted libraries  
was comprised of cDNA generated from four independent stage IB cervical tumors.  
The "driver" source for the subtracted libraries was comprised of cDNA generated from  
at least three independent samples of normal ectocervix that were manually dissected to  
isolate the epithelial component of the tissue. In some cases, the driver also included  
20 cDNA generated from B-lymphocytes, T-lymphocytes, and other white blood cells, in  
activated and resting states.

SEQ ID NOS: 706-1428 were also identified through the above-described  
subtractive library hybridization technique, wherein the "tester" source for the  
subtracted libraries was comprised of cDNA generated from four independent CINIII  
25 cervical samples. The "driver" source for the subtracted library was comprised of  
cDNA generated from six independent normal ectocervix samples that were manually  
dissected to isolate the epithelial components. The "driver" source also includes cDNA  
generated from B-lymphocytes, T-lymphocytes, and other white blood cells, in activated  
and resting states.

### B. Proteomics

Proteins that are secreted by normal and transformed cells in culture are analyzed to identify those proteins that are likely to be secreted by cancerous cells into body fluids. Supernatants are isolated and MWT-CO filters are used to simplify the mixture of proteins. The proteins are then digested with trypsin. The tryptic peptides are loaded onto a microcapillary HPLC column where they are separated, and eluted directly into an ion trap mass spectrometer, through a custom-made electrospray ionization source. Throughout the gradient, sequence data is acquired through fragmentation of the four most intense ions (peptides) that elute off the column, while dynamically excluding those that have already been fragmented. In this way, approximately 2000 scans worth of sequence data are obtained, corresponding to approximately 50 to 200 different proteins in the sample. These data are searched against databases using correlation analysis tools, such as MS-Tag, to identify the proteins in the supernatants.

### VIII . Summary Of The Data Provided In The Tables

Table 1 shows 1428 novel nucleotide sequences identified through subtracted library experiments. These 1428 novel sequences were determined to be novel through various BLAST searches of available databases. The sequences of Table 1 were reinterpreted and those sequences are set forth in Tables 2 and 3. Table 4 sets forth additional sequence (*e.g.*, full-length sequences) for the sequences of Tables 1-3.

The contents of all references, patents, published patent applications, and databases cited throughout this application are hereby incorporated by reference.

### Other Embodiments

Those skilled in the art will recognize, or be able to ascertain using no more than routine experimentation, many equivalents to the specific embodiments of the invention described herein. Such equivalents are intended to be encompassed by the following claims.

What is claimed is:

Claims

1. An isolated nucleic acid molecule selected from the group consisting of:
  - a) a nucleic acid molecule comprising a nucleotide sequence which  
5 is at least 90% homologous to a nucleotide sequence of Tables 1-4, or a complement thereof;
  - b) a nucleic acid molecule comprising a fragment of a nucleic acid comprising the nucleotide sequence of Tables 1-4, or a complement thereof; and
  - c) a nucleic acid molecule comprising the nucleotide sequence of  
10 Tables 1-4, or a complement thereof.
2. A vector which contains the nucleic acid molecule of claim 1.
3. A host cell which contains the nucleic acid molecule of claim 1.  
15
4. An isolated polypeptide which is encoded by a nucleic acid molecule comprising a nucleotide sequence which is at least 90% homologous to a nucleic acid comprising a nucleotide sequence of Tables 1-4.
- 20 5. An antibody which selectively binds to a polypeptide of claim 4.
6. A method for producing a polypeptide comprising culturing the host cell of claim 3 under conditions in which the nucleic acid molecule is expressed.
- 25 7. A method for detecting the presence of a polypeptide of claim 4 in a sample comprising:
  - a) contacting the sample with a compound which selectively binds to the polypeptide; and
  - b) determining whether the compound binds to the polypeptide in the  
30 sample to thereby detect the presence of a polypeptide of claim 4 in the sample.

8. A kit comprising a compound which selectively binds to the polypeptide of claim 4.

5 9. A method for detecting the presence of a nucleic acid molecule of claim 1 in a sample comprising:

a) contacting the sample with a nucleic acid probe or primer which selectively hybridizes to the nucleic acid molecule; and

b) determining whether the nucleic acid probe or primer binds to a nucleic acid molecule in the sample to thereby detect the presence of a nucleic acid molecule of claim 1 in the sample.

10 10. The method of claim 9, wherein the sample comprises mRNA molecules and is contacted with a nucleic acid probe.

15

11. The method of claim 9, wherein the sample is isolated from cervical tissue.

12. The method of claim 9, wherein the sample is a tumor sample.

20

13. A kit comprising a compound which selectively hybridizes to a nucleic acid molecule of claim 1.

14. A method of assessing whether a patient is afflicted with cervical cancer or has a pre-malignant condition, the method comprising comparing:

25 a) the level of expression of a marker in a patient sample, wherein the marker is selected from the group consisting of the markers listed in Tables 1-4, and

b) the normal level of expression of the marker in a control non-cervical cancer sample,

30 wherein a significant difference between the level of expression of the marker in the patient sample and the normal level is an indication that the patient is afflicted with cervical cancer or has a pre-malignant condition.

15. The method of claim 14, wherein the patient has CIN.
16. The method of claim 14, wherein the patient has SIL.
- 5 17. The method of claim 14, wherein the marker corresponds to a secreted protein.
18. The method of claim 14, wherein the marker corresponds to a transcribed polynucleotide or portion thereof, wherein the polynucleotide comprises the marker.
- 10 19. The method of claim 14, wherein the sample comprises cells obtained from the patient.
20. The method of claim 19, wherein the sample is a cervical smear.
- 15 21. The method of claim 19, wherein the cells are in a fluid selected from the group consisting of a fluid collected by peritoneal rinsing, a fluid collected by uterine rinsing, a uterine fluid, a uterine exudate, a pleural fluid, a cystic fluid, and an cervical exudate.
- 20 22. The method of claim 14, wherein the level of expression of the marker in the sample is assessed by detecting the presence in the sample of a protein corresponding to the marker.
- 25 23. The method of claim 17, wherein the presence of the protein is detected using a reagent which specifically binds with the protein.
24. The method of claim 23, wherein the reagent is selected from the group consisting of an antibody, an antibody derivative, and an antibody fragment.

25. The method of claim 14, wherein the level of expression of the marker in the sample is assessed by detecting the presence in the sample of a transcribed polynucleotide or portion thereof, wherein the transcribed polynucleotide comprises the marker.
- 5
26. The method of claim 25, wherein the transcribed polynucleotide is an mRNA.
27. The method of claim 25, wherein the transcribed polynucleotide is a
- 10 cDNA.
28. The method of claim 25, wherein the step of detecting further comprises amplifying the transcribed polynucleotide.
- 15
29. The method of claim 14, wherein the level of expression of the marker in the sample is assessed by detecting the presence in the sample of a transcribed polynucleotide which anneals with the marker or anneals with a portion of a polynucleotide wherein the polynucleotide comprises the marker, under stringent hybridization conditions.
- 20
30. The method of claim 14, wherein the level of expression of the marker in the sample differs from the normal level of expression of the marker in a patient not afflicted with cervical cancer by a factor of at least about 2.
- 25
31. The method of claim 14, wherein the level of expression of the marker in the sample differs from the normal level of expression of the marker in a patient not afflicted with cervical cancer by a factor of at least about 5.



32. The method of claim 14, comprising comparing:  
a) the level of expression in the sample of each of a plurality of markers independently selected from the markers listed in Tables 1-4, and  
b) the normal level of expression of each of the plurality of markers in  
5 samples of the same type obtained from control humans not afflicted with cervical cancer,  
wherein the level of expression of more than one of the markers is significantly altered, relative to the corresponding normal levels of expression of the markers, is an indication that the patient is afflicted with cervical cancer or a pre-  
10 malignant condition.

33. The method of claim 32, wherein the level of expression of each of the markers is significantly altered, relative to the corresponding normal levels of expression of the markers, is an indication that the patient is afflicted with cervical  
15 cancer.

34. The method of claim 32, wherein the plurality comprises at least three of the markers.

20 35. The method of claim 32, wherein the plurality comprises at least five of the markers.

36. A method for monitoring the progression of cervical cancer or a pre-malignant condition in a patient, the method comprising:  
25 a) detecting in a patient sample at a first point in time, the expression of a marker, wherein the marker is selected from the group consisting of the markers listed in Tables 1-4;  
b) repeating step a) at a subsequent point in time; and  
c) comparing the level of expression detected in steps a) and b), and  
30 therefrom monitoring the progression of cervical cancer or a pre-malignant condition in the patient.

37. The method of claim 36, wherein the marker corresponds to a secreted protein.

38. The method of claim 36, wherein marker corresponds to a transcribed  
5 polynucleotide or portion thereof, wherein the polynucleotide comprises the marker.

39. The method of claim 36, wherein the sample comprises cells obtained from the patient.

10 40. The method of claim 39, wherein the patient sample is a cervical smear.

41. The method of claim 39, wherein between the first point in time and the subsequent point in time, the patient has undergone surgery to remove a tumor.

15 42. A method of assessing the efficacy of a test compound for inhibiting cervical cancer in a patient, the method comprising comparing:

a) expression of a marker in a first sample obtained from the patient and exposed to the test compound, wherein the marker is selected from the group consisting of the markers listed in Tables 1-4, and

20 b) expression of the marker in a second sample obtained from the patient, wherein the sample is not exposed to the test compound,

wherein a significantly lower level of expression of the marker in the first sample, relative to the second sample, is an indication that the test compound is efficacious for inhibiting cervical cancer in the patient.

25

43. The method of claim 42, wherein the first and second samples are portions of a single sample obtained from the patient.

44. The method of claim 42, wherein the first and second samples are  
30 portions of pooled samples obtained from the patient.

45. A method of assessing the efficacy of a therapy for inhibiting cervical cancer in a patient, the method comprising comparing:
- a) expression of a marker in the first sample obtained from the patient prior to providing at least a portion of the therapy to the patient, wherein the marker is  
5 selected from the group consisting of the markers listed in Tables 1-4, and
  - b) expression of the marker in a second sample obtained from the patient following provision of the portion of the therapy,  
wherein a significantly lower level of expression of the marker in the second sample, relative to the first sample, is an indication that the therapy is efficacious  
10 for inhibiting cervical cancer in the patient.
46. A method of selecting a composition for inhibiting cervical cancer in a patient, the method comprising:
- a) obtaining a sample comprising cancer cells from the patient;
  - 15 b) separately exposing aliquots of the sample in the presence of a plurality of test compositions;
  - c) comparing expression of a marker in each of the aliquots, wherein the marker is selected from the group consisting of the markers listed in Tables 1-4; and
  - d) selecting one of the test compositions which induces a lower level of  
20 expression of the marker in the aliquot containing that test composition, relative to other test compositions.
47. A method of inhibiting cervical cancer in a patient, the method comprising:
- 25 a) obtaining a sample comprising cancer cells from the patient;
  - b) separately maintaining aliquots of the sample in the presence of a plurality of test compositions;
  - c) comparing expression of a marker in each of the aliquots, wherein the marker is selected from the group consisting of the markers listed in Tables 1-4; and
  - 30 d) administering to the patient at least one of the test compositions which induces a lower level of expression of the marker in the aliquot containing that test composition, relative to other test compositions.

48. A kit for assessing whether a patient is afflicted with cervical cancer or a pre-malignant condition, the kit comprising reagents for assessing expression of a marker selected from the group consisting of the markers listed in Tables 1-4.
- 5 49. A kit for assessing the presence of cervical cancer cells or pre-malignant cervical cells or lesions, the kit comprising a nucleic acid probe wherein the probe specifically binds with a transcribed polynucleotide corresponding to a marker selected from the group consisting of the markers listed in Tables 1-4.
- 10 50. A kit for assessing the suitability of each of a plurality of compounds for inhibiting cervical cancer in a patient, the kit comprising:
- a) the plurality of compounds; and
  - b) a reagent for assessing expression of a marker selected from the group consisting of the markers listed in Tables 1-4.
- 15 51. A method of making an isolated hybridoma which produces an antibody useful for assessing whether a patient is afflicted with cervical cancer or a pre-malignant condition, the method comprising:
- isolating a protein or protein fragment corresponding to a marker selected
  - 20 from the group consisting of the markers listed in Tables 1-4;
  - immunizing a mammal using the isolated protein or protein fragment;
  - isolating splenocytes from the immunized mammal;
  - fusing the isolated splenocytes with an immortalized cell line to form
  - hybridomas; and
  - 25 screening individual hybridomas for production of an antibody which specifically binds with the protein or protein fragment to isolate the hybridoma.
52. An antibody produced by a hybridoma made by the method of claim 51.

53. A kit for assessing the presence of human cervical cancer cells or pre-malignant cervical cells or lesions, the kit comprising an antibody, wherein the antibody specifically binds with a protein corresponding to a marker selected from the group consisting of the markers listed in Tables 1-4.
- 5
54. A method of assessing the cervical cell carcinogenic potential of a test compound, the method comprising:
- a) maintaining separate aliquots of cervical cells in the presence and absence of the test compound; and
- 10 b) comparing expression of a marker in each of the aliquots, wherein the marker is selected from the group consisting of the markers listed in Tables 1-4, wherein a significantly enhanced level of expression of the marker in the aliquot maintained in the presence of the test compound, relative to the aliquot maintained in the absence of the test compound, is an indication that the test compound
- 15 possesses human cervical cell carcinogenic potential.
55. A kit for assessing the cervical cell carcinogenic potential of a test compound, the kit comprising cervical cells and a reagent for assessing expression of a marker, wherein the marker is selected from the group consisting of the markers listed in
- 20 Tables 1-4.
56. A method of treating a patient afflicted with cervical cancer, the method comprising providing to the patient an antisense oligonucleotide complementary to a polynucleotide corresponding to a marker selected from the markers listed in Tables 1-4.
- 25
57. A method of inhibiting cervical cancer in a patient at risk for developing cervical cancer, the method comprising inhibiting expression of a gene corresponding to a marker selected from the markers listed in Tables 1-4.

Table 1

## Sequence 1

GCCGAGGTACTTTTTTTTTTTTTTTTTTTGGACATACTGAGAGAATTTGGAATTATAT  
GTTATGGTAGAATAAAGATCGAGGTCCATTTTCTATACATGAAAANTTAAATATTTAG  
T  
TTGGGATTGAGACTTCGATCTAGGCCTCTGNATTTCTTCTAGTTTTTCCCTACCAT  
T  
CTTTAATCGGAGTATCCAAGCCCAATCACCCCTGTANCCTATGTCCTAAAGCATCTTGAAT  
TGNTTGN TTCANGTTTTNCTTCATGNAGGAGTGTCTTTGCNCACNCCTCTTAAGCC  
TA  
TCTGGATCCCCACTTCANNCCCTCTGAAGGGTCTGTAAAAANTTCTAACCCCTATCTNT  
AT  
NGAATTTGTCCCC

## Sequence 2

GCCGGAAGAGCAACCGAGATGAAGGTGAAGATGCTGAGCCGGAATCCGGACAATTATGTC  
CGCGAAACCAAGTTGGACTTACAGAGAGTTCCAAGAACTATGATCCTGCTTTACATCCT  
TTTGAGGTCCACGAGAATATATAAGAGCTTTAAATGCTACCAAACCTGGAACGAGTATTT  
GCAAAACCATTTCCTTGCTTCGCTGGATGGTCACCGTGATGGAGTCAATTGCTTGGCAAAG  
CATCCAGAGAAGCTGGCTACTGTCCTTTCTGGGGCGTGTGATGGAGAGGTTAGAATTTGG  
AATCTAACTCAGCGGAATTGTATCCGTACCT

## Sequence 3

CGGAGAGGAGTCCTTACTTAGAGTNAAGCTGAAGGAGCATCACAACCCCAAAGACTGTTA  
TGTTGTGAAATTTAGGCTGTGTTTTAATAACTGATGATGATANGATGAAATAGTAAT  
T  
TATTGATTACTATATCTACTATATGTCCGTAAGATAGCAGGGTCTTTATACTCGGAATC  
T  
CATTTGATCCTCATAGTTTTTATTGGTGTATTATTATCCTCATTTTACAGATACAGAAAC  
TGAGGCTTCAGAGAGGCTGTGTAATCAAGAGTTTGTATGCCCTTCATCTGAGGAGGTTGA  
GGACAATCCCAAGTTAGAAAAATAAATGTCTTTAGCATTATTTTCCTTAATGTTTAGAA  
TATTAATAAGTTACTCAGATAATCTATTGGAATTTTCTTCATGGCAGGGGGAAGAGGCTA  
GAGTTG  
G

## Sequence 4

TACTCAGTTTCCTTATCTATAACATGGGGATAATATTANGTATGCTACATCCGTTGTTA  
T  
GAGGATCAATATCTGTAAAGCTCTTAGAACATGCATTTTCTTNTACTAAATGGGNAAGG  
TCTGGCNGGCGCGGTGGCTCACACCTGGTAATCCCAGCACTGTGGAAGGCTGAGGNNGGG  
GCAGTTGGGGAGCGAGGGGTTGTACTACTNCAATGTAACCTTCTTCTCAGAAATTNAGG  
CNAAAAGTCTTACTGACCATGTAAAGGAAATCCAACAATTATAACAGTCTCNTGCCTTT  
AAGGAGCTTATAGTCTAGTTANGAAACCAGACTTAAACATATGAAAAGTTTAAACATTGG

## Sequence 5

CTCTTTTCATTGAAAGGAAATTANGGTTGAACCTCCAGGAGCCCGTCAGAGTCTGAGGAGA  
GGCTGGCTTATGTCTAGATACGACGACAGCAAGGCTGCTTAGAGCTAACAGCGCATTGC  
CTTTCACCTACCGGACTCTCCTTTGCAGCTGCCCTTGGTGATCTCATCAGTCAGCATGTC  
TC  
TAACCCAGAGCCAGGCTGTGCTTTTTTTGTACCT

## Sequence 6

CGCGGTGGCGGCCGCGCCGGGCAGGTACCTATGACCATCTTACATTATTTTTATGGGTGGG  
GGGCATTGGCTGTGGAATGTGGGCAGTAACCTTGCACAGTCAGTAACCGTNNAGTAAGT  
GTTGTTGGCATCCCCATTCTGGCACTCCTCCTCTAGGTCTCCACCTCACACGCTGGTTTG  
TGGGCGGAGGGGCAGGTTGGTGGCGTGGGGTGTCCGGGCACTGGCTGTGCATGCCCTTCT  
CCTCTTCTGTCTCTTGGCCACCTTTTCCAAAAAGTCACCAAGTGACCAATTCTCCAGT

Table 1

GT

TTCTTTGGGACTCAATGCCTTGGGCTTGGCATTGGGTAAAGCCGACTGGCAAGTTTCATT  
CTGACCAAGCTCTATAGTAGTCCGGNGTGGACCTCTTGCCCTCCCTGCTCTGCGGAAAGC  
TTNCTCAGCCTTTGCTTCTTCACTTATTTACTATTTGCGGGGTCTGGGGGTACCCTC  
GG

NCGCTCTAGAACTAAGTGGGATCCCCCCCCGGGCTGCAAGGAATTGCAATATCAAGCCTTA  
TCGAATCCGTCNAACCTTCAAGGGGG

Sequence 7

GGTGGCGGCCGAGGTACGGATACAATTCCGCTGAGTTAGATTCCAAATTCTAACCTCTCC  
ATCACACGCCCCAGAAAGGACAGTAGCCAGCTTCTCTGGATGCTTTGCCAAGCAATTGAC  
TCCATCACGGTGACCATCCAGCGAAGCAAGGAATGGTTTTGCAAATACTCGTTCCAGTTT  
GGTAGCATTTAAAGCTCTTATATATTCTCGTGGGACCTCAAAAGGATGTAAAGCAGGATC  
ATAGTTTCTTGAACTCTCTGTAAGTCCAACCTTGGTTTCGCGGACATAATTGTCCGGA  
TT

CCGGCTCAGCATCTTCACCTTCATCTCGGTTGCTCTTC

Sequence 8

AGCAACCGAGATGAAGGTGAAGATGCTGAGCCGGAATCCGGACAATTATGTCCGCGAAAC  
CAAGTTGGACTTACAGAGAGTTCCAAGAACTATGATCCTGCTTTACATCCTTTTGAGGT  
CCCACGAGAATATATAAGAGCTTTAAATGCTACCAAACCTGGAACGAGTATTTGCAAAACC  
ATTCTTGCTTCGCTGGATGGTCACCGTGATGGAGTCAATTGCTTGGCAAAGCATCCAGA  
GAAGCTGGCTACTGTCTTTCTGGGGCGTGATGGAGAGGTTAGAATTGGAATCTAAC  
TCAGCGGAATTGTATCCGTACCTCGGCCGTTCTANACTAGGGGATCCCCCGGCC

Sequence 9

GGTGGCGGCCGAGGTACCACATGCACTGATAGCTCTCTTTGTATGAACAGGAGCTGTGGC  
AGGCCCTATGCCAGGGAGAAAGTAAGATTGGAAGAGCTTACCAAGGAGGTGGCATTG  
CACTGTGCTTAAGGGGCAAGAAAACGTCTTCCAATCAGGAGCCACAAATGCTTGGCTGA  
AGTGCTACTGCTCTTTCATCCTGGAGCTGGAACAGACGTACCAAGTCAATCATGATGGCT  
GCTGGGTGCACTGGCTAACATCTATAATCCAGCACTTTGTGAGGCTGAGGGTGGGAAGA  
TTGCTTGGGGCCAGGAGTTTGAGACCAGTTTTGGGCAAATTGCAAGACCCTGTCTCTGCA  
AAAAATATAAATGTAGCTGAGTGTGGTGGCACCTGTAGACCCAGCCCCAGCTACTCGA  
GAGGCTGAGATGGGAGGATCGCTTGGGCCTAGGAGTTGAGGCTGCAGTGAGCTATGAT  
GCACCACTGCACTCCAGCCTNNGTGACAGAACANGACCTGTCTNTAAAAANCATTAAATT  
AAATCAAAAAAAAAAAAAAAAAAAG

Sequence 10

GGTGGCGGCCGAACATCCTGTTTTAACTAGCACAGACAAAACCTATGTGTTACTATCAAA  
ATAAAATTTAGAAAAACAATTTTCTTATAAAATTTCTGTTTGTATTTGGACTACATAAA  
CTGGCTTTAAATTTAGAAATATGCCCTAAACCATAAGGAAAAAGCCAACAGAAAGAAC  
AAAAAGATCACAGCAATTAGGCCCGTTCTATTCAATTTGCCATGAGCTAAAAATCACAT  
TCTTCACAAAGTAAATTACCGCCCTGTTTTTATTCTTAAGCACTAGGGTTAGGATTGT  
G  
ATCTGAGCTTTACTAAATCGGAAAAGAAAATCTCAATTATAGAACATTTAGTTTTATTAT  
ACCTTAATGCCCCGAGAGGTAATATTTTACTTTAAATGCATAACCCATGTGGACATGCT  
AGGTCTTCCAAA

Sequence 11

GGTGGGGCCGGGCCCGGACCCGGNCCAAGACCTACCCGCGGNGNANTTGGCCTNGGGCC  
CTGGGGTTTTCTCCNAGGGGAAGCCTTGTAAGATCCACCTNGGAAANCCTTGTTNGGGTN  
CCGCTTGCCCCGTNGNATGGNTGGNGTAGGGGAAGGGCAAAGTACGCCTTCAAGAATAGG  
NAAAAAGGGGANGGGGGGGGGNACCACTCAAGGCCTGGCAAAGGCCAAGTGGGACCAAG  
TGGCCCAAGGGGGCTTCTTGAATGGTGGNTCTCTCACAAGCTTTGTAANAAAGGTGGTG  
GAAGAACCAAGCCTTGNCCCTTTTGTGGGTCGNGNGACCTTGAATAAAGGGCCAAAAGG

Table 1

AAGTTTTGGTTTCCCTTGGCCCCNTTTTTCCCTTNTTGNTTGGAACCTTTGGGAAA  
A  
GAAAACCCCCCTTGGGACCTTTTTTGGTTTTTTCCTTTGGCNAAAAAAGGGGGGCCACCCC  
TTGGCCAAATTGGATGGTTCCTTGNATTGGTTTTTCCGGTCGCTTANGGGGCCAATT  
NA  
NAANTTGGTTTGTAAGGGGAAAG

## Sequence 12

GCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTGTATTATTTAGTAG  
AGATGGGGTTTACCCTGTTGGCCGGGCTGGTCTTGAACCTTGATTTCAAGTGATCCGT  
CCACCTCAGCCTCCCAATGTGCTGGGATTACAGGTGTGAGCCACCATGCCTGGCCTTTT  
CTTTTTTTTTTAAACGAAAAAATGTTTTAATTGACAAATAAAAATGATGTATATTTA  
TGGTGTTTTTTCTCTTTTGCATCATCAGTCTCTTCTCATCACTGAAACCTACAAATATT  
TTAAATCTTTCCATTAAAAAATTTTGCTGATCATTC AACCTCTTCAAATTATTAAGAG  
ATACTTACTTTGTATGAAAAATTTGTGAGATGTATAATCCATTTTTTCTGGGAAG

## Sequence 13

TTACTTAGGGCGAATTGCGNCCGAGGTACCAGGTGTCACTTCTGCAGCAGGATTTAACAC  
GATGCAGATCTGGCCCCAGTGTGAGCATCTGTGTTAATGGTATCAGACTTAAAGAAGGAA  
AGACCTGATTTGACTGCTGTTGGTTTGGTAGTGTCCCTGATCCGGAGCCAGTTTTGTGG  
GAGGGAGTCCCAAAGCAGGTTTGAGCTGTGGTAATGACCGAGTTGATCCTAGAAGACAAA  
ACAGTAGAATCGTACCTGCCCCG

## Sequence 14

TGGCGGCCGAGGTACGGTATTCTCTTCAACAAGAGCAAGCCCATGATGATGCCATTTGG  
TCAGTTGCTTGGGGGACAAACAAGAAGGAAAACTCTGAGACAGTGGTCACAGGCTCCCTA  
GATGACCTGGTGAAGGTCTGGAAATGGCGTGATGAGAGGCTGGACCTGCAGTGGAGTCTG  
GAGGGACATCAGCTGGGAGTGGTGTCTGTGGGACATCAGCCACACCCTGCCATTGCTGC  
ATCCAGCTCTNTTGATGCTCATATTCGTCTTTGGGACTTGGAAAATGGCAAACAGATAAA  
GTCCATAGATGCAGGACCTGTGGATGCCTGGACTTTGGCCTTTTCTCCTGATTCACAGTN  
TCTGGCCACAGGAACTCATGTGCGGAANGTGAACATTTTTTGGTGTGGAAGNNGGAAAA  
GGAA

## Sequence 15

GCCCCTGCCCCGGCTGGTTATGTAACAAACAAGTCTGTGTCTGTGTGGAGTGTTCAGGA  
CGAGTGGAATGACTGTTTCCAAGTTCATGGCAATTCAGAAGGCCCTTCAGCCAGACTGG  
TTCCAGTGCCCTCTCCGATGGAGAAGTATCTTGTAAAGGAAGCAACTCCATAAAAAGGGTC  
AGAAAGTCTGTTGACCGATCACTTCTTTTCTTGGATAACTGTCTGCGGCTGCAGGAAGAG  
TCAGAGGTCTTCAGAAGAGTGTGATCATTGGAGTGATTGAAGGTGGAGATGTGATGGAA  
GAGAGGCTGAGGTGAGCAGGAGAGACAGCCAAGCGGCCCTGTGGGTGGCTTCTTCTGGATG  
GTTTTCAAGGAAATCCAACA

## Sequence 16

CGGTGGCGGCCGCCCGGGCAGGACGCGGGAAGAGGTAATTTAATGCCATTTTCATGGGA  
CACTTGGGAGCTAGATTAGAAGAAGCCAAGACTAGAATCGGGGAGATGAGTTGCAGAGGG  
NNGTGGTGAAGGTCTGAAGGAAGGTAGGAAAAGGTGCGACACATTCCAGACATATTTAGG  
GGTGGAGGTGGTTGGATATGGGGAGTT

## Sequence 17

TTGCGGGTGGCCCCGGCCCCGGGCAGGTGACTTTAGTCCTCACTCTGTGGGCAGGGGCA  
TTACAGCATAGGGGTCCCTTTTGTGAGGGATTTATGATGGCATCACACGCAGGATTGAGA  
GAGCATNAATTGAAAAATACATATGATTGGCTGGCGTGGAGGCTTATGCCTGTAATCCC  
AGCACTTTGGGAGGCTGAGGTGGGTGGATCACCTGAGGTGCGGAGTTTCGAGACCAGTCTG  
ACCAACATGGAGAAACCCTTTCTCTACTAAAAATACAAAATTAGCCGGGCGTGGTGGCAC  
ATGCCTGTAATCCCAGCTACTAGGGAGGCTGAGGCAGGAGAATTGCTTGAACC



Table 1

## Sequence 18

TNCCGCGGTGGCGGCCGAGGTACGATTCTACTGTTTTGTCTTCTAGGATCAACTCGGTCA  
TTACCACAGCTCAAACCTGCTTTGGGACTCCCTCCCACAAACTGGCTCCGGATCAGGGA  
ACACTACCAAACCAACAGCAGTCAAATCAGGTCTTTCCTTCTTTAAGTCTGATACCATT  
A  
ACACAGATGCTCACACTGGGGCCAGATCTGCATCTGTAAATCCTGCTGCAGGAATGACA  
CCTGGTACCTGCCCCG

## Sequence 19

CCGCGGTGGCGGCCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTATTTTTTTTTT  
T  
TTTTTTTTTTTTTNNCCCCGGGAGAGGAATTGGGAAGAGCAAATTGCTGCTGAAAATT  
TC  
TACATTGATCCAGACAAACAAGTTAGAGCAGGCTGAAAAAGAACCCTTGGTGTTTTCTG  
TGTTCAACCAGATCAACTGGAAGTATAGATACCTTAATTAGCACTGTGCTCTGNNGGA  
TTCTGGTCAGCCTGGCCCAAGTGGTTTTTTTTCCCTGAACACNCCTGAAAGGGGAGCTCAT  
AATGACTGCTGTGCAGGTGGGCGGGGAGGGGGCTTCTATTTGATTTAGNGGCTGATCAA  
TGCCAGTTACCAATTNTNGGTNGCCCCATTATACATGGNGGAAAAAAGTACCT

## Sequence 20

GAGGTACCCAATTTTTTTAAGTTCTAAGGTAGCTTTCTCAAAGAAAACCATTTTCAGGGT  
G  
TCCATTAAGAGCATCTGCGAATTGTTTTGCAGGGACTCCTAATCAGTCAGGAGAAGT  
AGAATGTAAGCAAAGTCACAAACCTCCCGTAAGAATTTGGTTACCAGGACACAGCTCCT  
CTCTTATGAAGGGATGAGAAGCAGACCCCAAACCCAGTGCCACAGTCTCCCTGGAAACAG  
CAGCAGGCTTGGGGAATGCTTCCAAAAGGCTATGCCATTCAAGGTCTCAGGTTTTTGGT  
TAAAAATACAACCTTAGGCCAACTGCAAGTGGCTCATGCCTGTAATTAATCCAAC

## Sequence 21

GTGGCGGCCGAGGTACGATTCTACTGTTTTGTCTTCTAGGATCAACTCGGTCATTACCAC  
AGCTCAAACCTGCTTTGGGACTCCCTCCCACAAACTGGCTCCGGATCAGGGAACACTAC  
CAAACCAACAGCAGTCAAATCAGGTCTTTCCTTCTTTAAGTCTGATACCATTAAACACAGA  
TGCTCACACTGGGGCCAGATCTGCATCTGTAAATCCTGCTGCAGGAATGACGCCTGGTA  
CCTGCCCCG

## Sequence 22

CGCGGTGGCGGCCGAGGTACAGAGTAGAGAGAGTTCTGCAGGGATGAAGTGGGAGACGTT  
GATAGGACCAGACCAGACCAGGCCTTGAGGCCATGGAAGGACTTTGGATTTTACACCA  
GTGCAACAGGTAACCTGCTGGAGGGAATTCAGCAAGAGAGTGACAGGAGCTGATTGACAA  
TTGAACGCCCACTCTGGCTGCCATGTGGCAAATAGATTGTAGGAAGAAAAGAAGAAAGG  
AAGAGAGCAGTTTGGAAGCTACTACTGTTGTCCAGAAATATGTAATGGTGGCTTGG  
C

## Sequence 23

CGCGGTGGCGGCCGAGGTACANAGTAGAGAGAGTTCTGCAGGGATGAACGTGGGAGACGT  
TGATATGGACCAGACCAGACCAGGCCTTGAGGCCATGGAAGGACTTTGGATTTTACACC  
AAGTGCAACAGGTAACCTGCTGGAGGGAATTCAGCAAGAGAGTGACAGGAGCTGATTGACA  
ATTTGAACGCCCACTCTGGCTGCCATGTGGCAAATAGATTGTAGGAAGAAAAGAAGAAA  
GGAAGAGAGCAGTTTGGAAGCTACTACTGTTGTCCAGAAATATGTAATGGTGGCTTGGC  
CCAGGTTGGGGT

## Sequence 24

CCGCGGTGGCGGCCGAGGTACAAAAAAGCACANGCCTGGCTCTGGGTTAGAGACATGCT  
GACTGATGAGATCACCAAGGCAGCTGCAAAGGAGAGTCCGGTAGTGAAAGGCAATGCGCT  
GTTAGCTCTAAGCAGCCTTGCTGTCGTCGTATCTAGACATGAAGCCAGCCTCTCCTCAGA  
CTCTGACGGGCTCCTGGAGGTTCAACCTAATTTCTTTCAATGAAAGAGTGGGTTCCAT

Table 1

GGTACCTGCCCCG

Sequence 25

CCGCGGNGGCGGCCGCCCGGGCAGGTACGCGGGAGGCACATTCTTTTCTACGTGAAGAGT  
TTTGTAACCTGAACCTTTGTTTTAGTTCCGGCTCCAGCCATCCTGGGGTNGCTTGCCA

AT

AGATGAATCCCACTCGTTTGACCCATGACGCTCCTTCTTTTCATTTCTCCCTCTTTCCC

C

ACAGCAGTGCATGTCCACCATAACCACCTGAGAGTCTGTGGAATCTAATTTTCTGTTATAC

TTCTTTCTTACAC

Sequence 26

GCGGTGGCGGCCGAGGTACGGATACAATTCCGCTGAGTTAGATTCCAAATTCTAACCTCT  
CCATCACACGCCCCAGAAAGGACAAGTAGCCAGCTTCTCTGGATGCTTTGCCAAGCAATT  
GACTCCATCACGGTGACCATCCAGCGAAGCAAGGAATGGTTTGCAAATACTCGTTCCAG  
TTTGGTAGCATTTAAAGCTCTTATATATTCTCGTGGGACCTCAAAGGATGTAAAGCAGG  
ATCATAGTTTCTTGGAACCTCTCTGTAAGTCCAACCTGGTTTCGCGGACATAATTGTCC

GG

ATTCCGGCTCAGCATCTTCACCTTCATCTCGGTTGCTCTTC

Sequence 27

ACGCGGCGGGCGGCCGAGGTACGGATACAATTCCGCTGAGTTAGATTCCAAATTCTAACCT  
CTCCATCACACGCCCCANAAAGGACAGTAGCCAGCTTNTCTGGATGCTTTGCCAAGCAAT  
TGACTCCATCACGGTGACCATCCAGCGAAGCAAGGAATGGTTTGCAAATACTCGTTCCA  
GTTTGGTAGCATTTAAAGCTCTTATATATTCTCGTGGGACCTCAAAGGATGTAAAGCAG  
GATCATAGTTTCTTGGAACCTCTCTGTAAGNCNCAACCTGGTTATCGCCGGACATAATTGG  
ACCCGGTATTTCCGGCTCAGNCATCTTCACCTTCATCTAAGGNTTGCATNTTCCGGGCC  
CGNTCTAAGAACTAGTGGGATCCCCCGGGGCCCTGCAGGGAATCCGATAATCAAAGGCT  
TAATCTGAATACCCGGTCGGACCTTCGGAGGNGGGGGGGCCCGGNTACCCCAAGCTTT  
TTTGGTTTCCCTT

Sequence 28

CGGCGGAGGTACTCAGTTTCCTTATCTATAACATGGGGATAATATTAGTAGCTACATCGT  
TGTTATGAGGATCAATATCTGTAAAGCTCTTAGAACATGCATTTTTCTTCTACTAAATTT  
TAAGNCTGGCAGGCGCGGTGGCTCACACCTGGNATCCCAGCACTGTGGAAGGCTGAGGT  
GGGGGCAGTGGGGAGCGAGGGGNTGTTACTACTCCAATGTAAGTCTTTCTCAGAAATTA  
AGGCAAAAAGTCTTACTGACCATGTNAAGGAAATCCAACAATTATAAACAGTCTCTGCCT  
TTAAGGAGCTTATAGTCTAGTTAAGAAACCAGACTTAAACATATGAAAAGTTAAACATTG  
GCCAGGCACAGTGGCTCATGCCTATAATCCCAGCACTTTGGGAGGCCAAGGCAGGAGGAT  
CACCTGAGGTCANGAGTTCGAGACCAGCCTGACCAGCNTGGAGAAACCCCATCTN

Sequence 29

GCGGTGGCGGCCGAGGTACTCAGTTTCCTTATCTATAACATGGGGATAATATTAGTAGCT  
ACATCGTTGTTATGAGGATCAATATCTGTAAAGCTCTTAGAACATGCATTTTTCTTCTA

C

TAAATTTTAAGGTCTGGCAGGCGCGGTGGCTCACACCTGGTAATCCCAGCACTGTGGAAG  
GCTGAGGTGGGGGCAGTGGGGAGCGAGGGGTTGTTACTACTCCAATGTAAGTCTTTCTC  
AGAAATTAAGGCAAAAAGTCTTACTGACCATGTAAAGGGAAATNCAACAATTATAACAG  
TCTCT

Sequence 30

GGCGGCCGAGGTACTCAGTTTCCTTATCTATAACATGGGGATAATATTACGTAGCTACAT  
CGTTGTTATGAGGATCAATATCTGTAAAGCTCTTAGAACATGCATTTTTCTTCTACTAA

A

TTTTAAGGTCTGGCAGGCGCGGTGGCTCACACCTGGTATCCCAGCACTGTGGAAGGCTGA  
GGTGGGGGCAGTGGGGAGCGAGGGGTTGTTACTACTCCAATGTAAGTCTTTCTCAGAAA

Table 1

TTAAGGCAAAAAGTCTTACTGACCATGTAAAGGAAATCCAACAATTATAAACAGTCTCTG  
CCTTTAAGGAGCTTATAGTCTAGTTAAGAAACCAGACTTAAACATATGAAAAGTTAAACA  
TTGGCCAGGCACAGTGGCTCATGCCTATAATCCAGCACTTTGGGAGGCCAAGGCAGGAG  
GATCACCTGAGGTCAGGAGTTCGAGACCAGCCTGACCAGCATGGAGAAACCCCATCTTTA  
CTAAAAATACAAACTAGTTGGGCATGGTGGCGCATGCCTGTGATCCCAGCTACTTGAGA  
GGCTGAGGCGGAGAAATCACTTGAACCCGGGAGGTGAGCGGCCGCCCGG

## Sequence 31

CCCGCGGTGGCGGCCGAGGTACTCAGTTTCCTTATCTATAACATGGGGATAATATTAGTA  
GCTACATCGTTGTTATGAGGATCAATATCTGTAAAGCTCTTAGAACATGCATTTTTCTT  
C  
TACTAAATTTTAAGGTCTGGCAGGCGCGGTGGCTCACACCTGGTAATCCCAGCACTGTGG  
AAGGCTGAGGTGGGGCAGTGGGGAGCGAGGGTTGTTACTACTCCAATGTAAGTCTTT  
CTCAGAAATTAAGGCAAAAAGTCTTACTGACCATGTAAAGGAAATCCAACAATTATAAAC  
AGTCTCTGCCTTTAAGGAGCTTTATAGTCTAGTTAAGAAA

## Sequence 32

GCGGCCGAGGTACGTATGCACTTGCTTGCCATCTAAGCAGGGACAATGGCAGTTCATATC  
ATGATGTTACTTTGATTCTCTGACCAAACCTGGCCTGTGAGCACCTGGGCCTTCTTC  
CT  
CTGTCAAAGGCCTTAAGACAGGTTTACCCTGTAGCCAGGTCTGGAAGACAGAGCTGGGT  
AAAGCTGGGTGGGAGAAGTGAAAAAGGTCAGGTTTACATTCTACGCGGAAAAGGATGTA  
ACACGGGGCCACATCCTATGCCCAATCCCAAGGCAGGGAGGCAGGGAAGTGGCTGCCAAA  
CCTGTTGTAGGAGAGTAATAAATGACTTGAGAGTAAGCCTAAGCAAACCTCAAGTGGGAAG  
GGGAGTGGGCTGTAAATAGTTTAAGAGACTCTCTCAGGAAGTCAGCGTAATTGATGTGT  
AGAAAGGTAACAGTCAACAGTTCTCCTAACAAGACAGCTTCAAAGCAGCAGCTATAGTGG  
AGCATTCTGAGGCCTGCTGCAGATCAAAGCATGAATGTGCAGACTGGTCTCTTGCCCA  
GCGTTTCTTC

## Sequence 33

CCGCGGTGGCGGCCGAGGTACGTATGCACTTGCTTGCCATCTAAGCAGGGACAATGGCAG  
TTCATATCATGATGTTACTTTGATTCTCTGACCAAACCTGGCCTGTGAGCACCTGGGC  
CT  
TTCTTCCTCTGTCAAAGGCCTTAAGACAGGTTTACCCTGTAGCCAGGCTCTGGAAGACAG  
AGCTGGGTAAAGCTGGGTGGGAGAAGTGAAAAAGGTCAGGTTTACATTCTACGCGGAA  
AAGGATGTAACACGGGGCCACATCCTATGCCCAATCCCAAGGCAGGGAGGCAGGGAAGTG  
GCTGCCAAACCTGTTGTAGGAGAGTAATAAATGACTTGAGAGTAAGCCTAAGCAAACCTCA  
AGTGGGAAGGGGAGTGGGCTT

## Sequence 34

GCGGCCGAGGTACCAGTTAAAGTCTTCTAGCCTGTATCCCCACTCCTTTTGCCACTTGC  
AAATTCGGTAGCCCAGTTACCCAGAGGGAGGCATAGGAGGGAAAACGAAGACTGAAAAGG  
GCTAATATGAGTTTTGTCTCTTACAATTTATCTGCATCTTATCCTTCCCCCACCCTTCA  
T  
CATTAAATCATTAAACATTCTATCCAAATAGGATGCCCTTCTGTGGAAGTGCATATTTG  
G  
AAACCATACTGCCTGTTTAACTTATGCACTCCACTGGGAACCTACAGTATCTGTTTCCC  
A  
CAATACTTGCAGTCAATATCAGTTACAACCGCTGGGTGTGATTGGTTCAAAAGGACCTAC  
CTACAAGGTTATATCAATCCATTGTCCAATTTGAGAGATTTTTTCTGAATCCAGTTAAA  
A  
TAATTTTTGGCTACACCTGGGGACACTTCCCAGGACAACAATGACTTGAGTCTAGTGCC  
CAAGAAAGCCAAAAAGGCCCGGCAAC

## Sequence 35

GGTGGCGGCCGAGGTACGGATACAATTCCGCTGAGTTAGATTCCAAATTCTAACCTCTCC

Table 1

ATCACACGCCCCAGAAAGGACAGTAGCCAGCTTCTCTGGATGCTTTGCCAAGCAATTGAC  
TCCATCACGGTGACCATCCAGCGAAGCAAGGAATGGTTTTGCAAATACTCGTTCCAGTTT  
GGTAGCATTTAAAGCTCTTATATATTCTCGTGGGACCTCAAAGGATGTAAAGCAGGATC  
ATAGTTTCTTGGAACCTCTCTGTAAGTCCAACCTGGTTTCGCGGACATAATTGTCCGGA  
TT  
CCGGCTCAGCATCTTCACCTTCATCTCGGTTGCTCTTC

Sequence 36

CATNTGTGTTTTATTGTGAAGGGTCCTCAACTGTGTGGCTGATTCAGGCTGTCCCCACTG  
CAATGTAGGGAGAGGAGAGAGAAAGGGATGAAAGTGAAAGGCAGGGGGGGGGATGTTTGTTNC  
ACCGGGGTGAACTTCTGCCTGAGCAAGNTGATGTTGGCTCCGANNGTATTTGGGACACT  
TTCTTTCAATACATNTNTTATTTAAGCACTTTATTCTGTGNCCTGCTGCCCTG  
G

Sequence 37

CCGCGGTGGCGGCCGCCCGGGCAGG\*.ACGCGGGGGCAACATGGCGGCCTTAGCAAGCTAT  
AGCTGCGAGATTTGAATTACTCCACTCGTAGCTATTGCATTCTGACGATGGCCTCTGTG  
GCTTCGTGCGATTTCGCGTCCGAGCTCAGACGAGCTCCCTGGAGACCCCTCTTCACAAGAA  
GAAGATGAGGACTATGATTTTGAAGATCGGGTCAGCGACTCGGGTTCATATTCCTCAGCG  
AGTAGCGATTATGATGATCTTGAGCCTGAATGGCTGGACAGTGTGCAGAAAAATGGAGAG  
CTGTTTTATTGGAATTGAGTGAGGATGAAGAAGAAAGCCTCCTTCCTGAGACACCAACT  
GTGAACCATGTCAGGTTCAAGTGAAGATGAGATTATCATTG

Sequence 38

CCGCCGAGGTACTTAAGTTTTTCTTCAGTTACAGCTACCATGTGAAAATAATTCTCTGC  
T  
TATCAAGTTTACAACTTTAGAATTTCTGTTTTAAAGTTTTCTCATTTACTTATCACACA  
GTCATCTTCTTTTTGCCAAACGCTATAGTAGCACATTAAGGAGACTGATGTGAAATCA  
ACTCTGTGCAAAAAGTATTGGGTGCTTTGGTAGAAGTCTATACAGAAGACACTGGAGACA  
CAAAAATGAATTTTGTCCAGGTGAGTTGATGTCAGAAAAGGCTTAATAATGGAGATGAGG  
CCGGGCATGGTGGTTCACACCTGTAATCCACCTGTTTGGGAGGCTGAGGCAGGTAGATC  
ACTTGAGACCAGGAGTTTGAGACCAGCCCAGCCAACATGGAGAATCCTGTCTCCACTTTT  
NAAAANTNAAAAANATNNGTTCTGCCCCGGCGGGCGCTTAGAACTAGTGGGATCCCCC  
GGGCTGCANGAATTTGATATCA

Sequence 39

TCCCCGCGGTGGCGGCCGCCCGGGCTGGTACGCGGGAAAGCAAAACGACAAGCACGCCCT  
GAGCAGAGCCCCGGAATTCAACCTTTAAGTGGATAACTTGGCTTCTGGTTTGCCAAGGA  
ACCAGGGCATCAAACAGATGAAACAGCCTATTGTCCATTTCAACAGGATTTTTCAGGAGT  
GGGGATGATCTTTCAAATTATCCACAACCTTAATTATTTAATATTTTGATAGTCAATTACC  
TAAGACACGGCATCGTCACTGACCAATCAGAAGAGATGCCAGTAGTTGGGCGCAGTGGCA  
GCACTTTGGGAGGCTGAGTGGACAGATCACCTGGGGTCAGGAGTTGAGACCAGCCTGGC  
CTACATGGTGAAACCCCATCTCTACTAAAAATACAAAAATGAGCCAGGCATGGTGGGCAC  
CTGTAATCCAGCTACTTGACAGAGTGAGCCTCTGTCTCAAAAAAAAAAAAAAAAAA

Sequence 40

GCCTCCCCGCGGTGGCGGCCGAGGTACAGTTTAAAACTGTGGGGCTGAGTCTCGGGG  
CCGTGGGGCGCAGCGTGGCTGATCACCATCATAACGGGCCTATGGGGATACATTCTCTTA  
GACATTTTGAAGTAATTAATGCTCTCGTTAGTGATTAAGTCTGTGAAGTAGTCTTTGC  
A  
TAATCAAATCCATGCTTTTCTTTGATGCCATTGCGACAAACAGTGAATTATAGAAGCG  
A  
GAATTCTTGATTAATCCAAGCCATTCTCGCCACCCAGGGGGGATGTAGCTGCCATTATAT  
TCATTGAGGTATTTTCAAAAAAGGCTGTTCTGTAGCCAGTGTTGTTAAGATATACAGCA  
AAAGTCCGAGGCTCATGCATGGCCTGCCACGAGGGGGAAGAGCAGTTCTCGTTGTTGGTG

Table 1

TAGACATTGTGATTGTGCACATACTTNCCGGTGAGCATGGAGGACCGTGACGGGCAGCAC  
ATGGGGTGTAGTCACAAAGGCATTGATGAAGGTGGCCCCCATGTT

## Sequence 41

CCCCGCGGTGGCGGCCGCCCGGGCAGGTACACGTGCACATTGTGCAGGTTAGTTACATAT  
GTATACATGAGCCATGCTGGTGCGCTGCACCATGGCACATGCATATCTATGTAACAACT  
TGCATGTTCTGCACATGTATCACAGAACTTAAAGTGTAATAAAAAAGAAAGAAAAACAG  
CATGCAATTCAGCCACACAAAAAAGAAAGTCAAAGACAGCGAGAATTCCTAAACAGC  
AATAAAAGTATAAAGTCACTCTAAAGGAATCCCCGTTAGATTAACAACACATTTCTTA  
GAGAAATCTAACAGGCCAGGAGAGAATGGGATGACATATTCAAAGTGTTAAAGGGGGGA  
AAAACTCCACTCAAGACTACCCAGAAAAGCTATCTTTCAGAAATGGAGATAAAAA  
CTTTCCAGACAAAGAAAACTAAGAGAATTTACTACCACTCACCAGCCTTACCAAAAA  
A

## Sequence 42

NTTGAGCTCCCCGCGGTGGCGGCCGGAGAGCAACCGAGATGAAGGTGAAGATGCTGAGC  
CGGAATCCGGACAATTATGTCCGCGAAACCAAGTTGGACTTACAGAGAGTTCCAAGAAAC  
TATGATCCTGCTTTACATCCTTTTGGAGTCCCACGAGAATATATAAGAGCTTTAAATGC  
T  
ACCAAATGGAACGAGTATTTGCAAAACCATTCCTTGCTTCGCTGGATGGTCACCGTGAT  
GGAGTCAATTGCTTGGCAAAGCATCCAGAGAAGCTGGCTACTGTCTTTCTGGGGCGTGT  
GATGGAGAGGTTAGAATTTGGAATCTAACTCAGCGGAATTGTATCCGTACCT

## Sequence 43

ATTGGAGCTCCCCGCGGTGGCGGCCGGAGAGCAACCGAGATGAAGGTGAAGATGCTGAGC  
CGGAATCCGGACAATTATGTCCGCGAAACCAAGTTGGACTTACAGAGAGTTCCAAGAAAC  
TATGATCCTGCTTTACATCCTTTTGGAGTCCCACGAGAATATATAAGAGCTTTAAATGC  
T  
ACCAAATGGAACGAGTATTTGCAAAACCATTCCTTGCTTCGCTGGATGGTCACCGTGAT  
GGAGTCAATTGCTTGGCAAAGCATCCAGAGAAGCTGGCTACTGTCTTTCTGGGGCGTGT  
GATGGAGAGGTTAGAATTTGGAATCTAACTCAGCGGAATTGTATCCGTACCT

## Sequence 44

GGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTCTACTCTGGAAG  
C  
TGAGGNGGAAGGATTGCTTGAGCCCAGGAGTTTGAGGCTGCAGTGAGCTATGATCACAAC  
ACTGCACTCAAGCCTGGGCAACAGAGCAAGACCCTGACTGTAAAAAATTTTTTACATT  
AATTTTTAAAGTGAGGTTTTTACCTGATGATTGNGTAGGTTTCTCCTAGCTCCAAAGT  
A  
TCCGGCTCCTACGACTCTAAATATAACCTTCAAGGAAAGNGGAGCTGGTTTACTCTTTTC  
TGATAATATCAAGCCATTCTGGCTGGGCGTGGNGGCTCATGCCTATAATCCAGCACTT  
TGGGAGGCCCGCGGTACCT

## Sequence 45

GGGNGGCTCCACCGCGGTAGGCNNGGCCCGCCGGGCCAGGTACGCGGGNAATTCAAGGAT  
GGGATTAAAGGATTTAAACCGTTTAGGACCCTAAAAGCATAAAAACCCCTTAGAAAGGAA  
AATCTTAGGGCAATACCCATTGGAGGGACCTTAGGGCCTTGGACCAAAGGACTTTCATG  
GACTTAAAAACACCCCAAAAGGCAATTGGGCAANCCAAAANGCCCCAAATTAGGNCCA  
AATNGGGGATTCTTAACCTTAAACCTTAAAGGAGGCTTTNTTGGCCCCAGGCCAAAANG  
GAAAACTTTCCTTCNAGANGNNGGACCCNNGGCCANCCCTTTCNNGGAATNGGGGG  
GGGAAAAATTT

## Sequence 46

GGAGCTCCCCGCGGTGGCGGCCGAGGTACTCGGGAGATCGTGCCACTGCCCTCCAGCCTG  
AGAGAAAGAACTCTGTCTCTAAAAAAGAAAGAAAGATGTCAGTGCTATTTATAG  
TAATACAAAATTTAATGTAATTTTGTCAAATCTCAATGGTATATTTTGCAGATTTT

Table 1

TCAAATTATATATATGATTTATAAATTATTGTTATAGATTCCTGGAAAGTTAATCCAT  
CTCACCATTACATAATACCAATCTCTCTCGGCCGGCGCAGTGGCTCACGCCTGTAGTCT  
CAGCACTTTGGGAGTCCGAGGCGGGTGAATCATGAGGTCCAGAGATCGAGACCATCCTGG  
CCAACAAGGTGAAACCCCATCTCTACTAAAAAT

Sequence 47

CTAACCTCACATTTAATTGCGTTTGCGCTCACTGCCCCGCTTTTCCAGTCGGGGAAACCT  
TGTTCTGTCAGCAGTGAATTTAATNGAATCGGGCCCAACNGCCGCCGGGGGAGGAGGG  
CCGGGTTTTTGGCGGTATTGGGGGCGCCTTCTTCCCCTTTCCTTTCGCTCACTT  
GAA

CTTCGCCTNCCGCCTTCGGGGTCC

Sequence 48

CGCGGTGGCGGCCCGCCCGCCNAGGTACAAGNGACAATGCTGGATGCCAAGCAGNTCCCC  
CCTACCGTCTCACTGCCCCCTCAAGACTTCAAGGCCACTCTCCCATAAACATCATGACTA  
CAGATTTAGGTGGAAGAGCAGCCATGTTTGAAGGGCAGATGTGATGAGTGGGGGGCAGCA  
AGATGCCATTTCTGCATCTCCAGAAAGGATGAGTCTTGTCCCGATGCAAGCCCCCTCT  
TCGTTGGGCTCCAGCAGTGCTTNCCTNCTCCACCCTGCACTTCATTTNGTTCTTTCC  
CC

CCCNAACTTTT

Sequence 49

GCGGCCGAGGTACAATAATGGAGCTCAGAAGCTGTCAAGGATATAAGCAGTGCAACCCA  
AGACCTAAGAATCTTGATGTTGGAAATAAGATGGAGGAAGCTATGACCTACACAGAGGA  
CAGTTATGGGATGGATGGGAAGGTTAATCAGCCCCGTCTCACTGCAGACATCAACTGGCA  
AGGCCTAGAGGAGCTACACAGTGTGAATGAAAACATCTATGAGTACCTGCCGGGCGGCC  
GGCTCTAGAAGTAGTGGATCCCCGG

Sequence 50

GGCGGCCGGANGAGCAACCGAGATGAAGGTGAAGATGCTGAGCCCCGAATCCGGACAATT  
ATGTCCGCGAAACCAAGTTGGACTTACAGAGAGTTCCAAGAACTATGATCCTGCTTTAC  
ATCCTTTTGAGGTCCCACGAGAATATATAAGAGCTTTAAATGCTACCAAACCTGGAACGAG  
TATTTGCAAAACCATTCCTTGCTTCGCTGGATGGTCACCGTGATGGAGTCAATTGCTTGG  
CAAAGCATCCAGAGAAGCTGGCTACTGTCCTTTCTGGGGCGTGTGATGGAGAGGTTAGAA  
TTTGGAATCTAACTCAGCGGAATTGTATCCCGTACC

T

Sequence 51

NGGCGGCCGAGGTACCTCAGCATATATTGGAAGTGTTTTAGAGTTGGTGAGTTCCCCGTG  
CCTTCCAGAACTGAACGCTAGGAGGAGCAGNCAGNGAGGACAGACGTCTATGCAGAAACA  
TGGNGAACCTCTGGAAATGACACACTCTCCGGGCNAGGGGGCCATTCTGTCATCTTTGA  
GGTGGACTAATCATGGAGATTCTNGCAGGGCCGGCTGCTATCTCAGATTTTCTAATCGGA  
GAAGGAGAGAGATCAACTTCCATCGACTCCAGTCTGTGCGGGGGCTGATGAGTGAGGTGGC  
AGCAGGCATCCGCGTGGTTTTGTTGAAACTGGACTTTTTATTGTGCTGAAAGCTGTTT  
GT

TGTGATGATCTCATACTTTGNAGTTGNTCTATCTGCANCACTGACTTTC

Sequence 52

TCGTTNGAAGCCCCCCCCGCGGTGGCGGCCGAGGACTTTTTTTTTTTTTTTTTTTTGG  
CA

TTCTGAAAATTCATGAGGCTGTGTTTTAGGTGAGGCTATTTCTTCATTCAGTGAACNG

GG

CACCCAACAGGCTCTTAATATGAAGACTTGGGCCCTTCTGAGTTCTAGAAAAGCATTTT

TACTAGTTCCTCAGTAATTTCCCTCCCTTCACTCTGTTCTTTTCTCGGACTC

C

AATTGGATCTTGGGCCTCTAAGTATAGGCAAGATCATGTTTCTAAAAAGGTTCTTAGAGG

GAGGGAGTTCCTGGGAGTGTTATGTGGGGTGGTGCANAAGGTGCTAACAGGTGGNNTTNT

Table 1

CTTTAGGATGAGCAGGTGG

Sequence 53

GTGAAGATGCTGAGCCGGAATCCGGACAATTATGTCCGCGAAACCAAGTTGGACTTACAG  
AGAGTTCCNNGAAACTATGATCCTGCTTTACATCCTTTTGAGGTCCCACGAGAATATATA  
AGAGCTTTAAATGCTACCAAACCTGGAACGAGTATTTGCAAAACCATTCTTGCTTCGCTG  
GATGGTCACCGTGATGGAGTCAATTGCTTGGCAAAGCATCCAGAGAAGCTGGCTACTGTC  
CTTTCTGGGGCCGTGTGATGGAGAGGTTAGAAATTTGGAATCTAACTCAAGCCGGAAATT  
GTAATCACGTACCTCGGCCCGCTCTAAGAACTAGTGGGATCCCCCGNGCTGCAGGGGAAA  
TTCCGATATCAAGGCTTTATCGATACCGGTCNACCCCTNGAGGGGGGGGGCCCCCGGGTACC  
CCAANCTTTTTTG

Sequence 54

CCCCCGCGGGGCGGCCGAGGTACACTGGGAAAATGAAGAACTTAACATACATAAAAATAG  
AGGGACAGTCAAAACTTCACAGGGGGGAAATCAAGTTAAATTCAGAGCTGGATTTAGATG  
ATGCCATTCTAGAGAAGTTTGCTTTCTCCAATGCTCTATGCCTTTCTGTAAAACTGGCA  
A  
TTTGGGAAGCATCACTGGATAAAATTTATTGAATCTATTCAAGNCAATTCCTGAGGCTT  
T  
AAAAGCTGGGAAGAAAGTGAACTATCTCATGAAGAAGTTATGCAGAAAATCGGTGAAC  
CTTTGCTCTAAGGCACCGTATAAACTTTGAAGTTCAGGACCTTCCTGATTACTCCTGA  
TT  
TCTTACTGGGGACAGGAGAGAAAACCNNGGAAGGGACTTTACCGATAAAAACCGTGGTCAA  
ATTCTTTAGCCATTTGGCCCCGAAAGANGTTAAGGGTCCAATGAAATTGAAA

Sequence 55

TAGCAGGAGCCCCAGGAGTCTGAGCGGNGGGACCCTCATGTCCATGCCTGTTGTCCCTGG  
ACNTGAAGACCTGAACTCCCCCGCGTACTCTCGGCCCGNTTCTTAGGAACNTAGGTGGG  
ATTCCCCCGGGCCTGCTAGGGGAATTTCCGAATATTCAAAGGCTTAATTCGAATACCCCG  
GTCCGAACNCTTCGNAGGGGGGGGGGGGGCCCCCGNNTTACCCCAAGC

Sequence 56

GCGGCCGAAGAGCACCGAGATGAAGGTGAAGATGCTGAGCCGGAATCCGGACAATTATGT  
CCGCGAAACCAAGTTGGACTTACAGAGAGTTCCAAGAACTATGATCCTGCTTTACATCC  
TTTTGAGGTCCCACGAGAAATATATAAGAGCTTTAAATGCTACCAAACCTGGAACGAGTATT  
TGCAAAACCATTCCTTGCTTCGCTGGATGGTCACCGTGATGGAGTCAATTGCTTGGCAAA  
GCATCCAGAGAAGCTGGCTACTGTCTTTCTGGGGCGTGTGATGGAGAGGTTAGAATTTG  
GAATCTAACTCAGCGGAATTGTATCCGTACCT

Sequence 57

CAGGGAATGGGNGGNGGCTNCACCTGGGGANNCTGAGGCCCGTGTTTGTGGAAGATGTA  
GATTCCTTCATGAAACAGNCTGGNAATGACGACTGCNGATACAGTATTAAAGAAGACTGG  
ATGAACAGTACCT

Sequence 58

CGGCCCGCGGGCAGGTACGCGGGCTATTGTGATTCCCAGTGACCCATAGAACAGGATTTT  
ACTAGTCCTATGACATGTGACTGGGCTTGGGAAGTTCNCGTGTGAGNTCCAAAAATCCTA  
AGGTGGGATCTTCGCTTTGTGAAGCAAATTAATTACACAACCAAATATTGCCACATTCT  
T  
GAGGTCTATTGACACAATGGGAACCTCAACCCCTACTTAGCTTAGCATTTTTTTTTTCA  
A  
GAGTGAAGAGTGGTCCACGTAGAGCACAAATATAATTTAAGTAAAGGAAGATTAAACATA  
TTTTTATCCATTTCTTATGGTGGNNNNATTACATGTTTTAGATTTGAGGTCCCCCTCTC  
A  
GAAAAACCTTTCAACTTCGTATTATTCACTCCTGAGTAGTATGGGGGTAGAAAAATGAG  
TGGGAATCAGTTTGGTCCACTATTTTCCCGAGTCTTTCTTGCACTTGCAAACTTTTC  
A

Table I

TCAAATATTTTACCAAAAATTCTCANGCNCCTGTTTACCAGGATGGTGGTATCACNATC  
A  
GGGCTCAAACCAAAGNTTACAGGAAATTCTNTTGGNNGGTTTTTATCCTGGGACNATTC  
TAAATTTTAAAAAACCTAAAAAAGGTTATTTATTTCTTCNCNAATTTATTCANNTGNTTT  
TTTAA  
Sequence 59  
CACGCGGAAAGATCAGTTGNTTTACCTTGGCATTCAAAGACTTTTCTTTGACTCCCATG  
GTTCTCAAAGCGTGATCCTGGTCCACCACCATCAGCATGGNNGGNGGGAACGTGTTAGCA  
CTGCAAATTCTCATTCCCTCCCTAATTTTCTGAATCANAAATTACGGAGGTGGAGCCCAGC  
AATCTGTTTTAACCAAACTTCCACATAATTCTAATTAATTTATGCTTTGGAGAACNCGC  
T  
GATCTAGTTTGTCCCTCTCATTTTGCAGGCAAAGAATTGAATTCTAGAGAGGTTAATTG  
A  
CCTTGTCCAGTCATACAGCTAGGGTCTGTTTTCTATTATTTATTTATTTATTTATTTT  
TTTTATTCACTTTACCCCCAGGTATTCATAGNTTTCTTTCTAAATACTCCATATTTGGA  
CTTGACTTTTTACAAGTTTGTAATTACCAAATAAAGTCTAAAGATGGGGAAAGGTTGTGG  
GAAAACTTTATAGAGAACATGAGATTTTGACTGAACCAGTNAACATTAAGTAGAGAGNAA  
AAAGAAAGGGGTGTTCTAAAGCAGTAGGGACCACAGTGAATAAAGGGAGAAGATAGGGAA  
GNTTTAAAAAAA  
Sequence 60  
ACATCCTTTTGAGGTCCCACGAGAATATATAAGAGCTTTAAATGCTACCAAACCTGGAACG  
AGTATTTGCAAAACCATTCCTTGCTTCGCTGGATGGTCACCGNGATGGAGTCAATTGCTT  
GGCAAAGCATCCAGAGAAGCTGGCTACTGTCTTTCTGGGGCGTGTGATGGAGAGGTTAG  
AATTTGGAATCTAACTCAGCGGAATTGTATCCGTACCT  
Sequence 61  
TCCACTCCCGCGGTGGCGGCCGAGGTACACGTTACTGTTCCGTCGTATTTGTAGTCTCT  
GTTCTGCCCTTTGGAACATCTNTTCGGTGTTCTGTGGGATCTCTCTACTGCATTNTA  
CT  
TTATGTAATAATCTGTTCAATAAATAATTTTAAAAGGAGACAACAACGCCGCAGGTGAT  
CTGGAGGCTCCTGGAGGACCTCAGCGACTCAGGTCCAGTCCAAGGAGGGCCGCAGATCAG  
GCTGAAGGATGGATCCACATGTTTAGAGGAGATCGAGAAATGCAGAAGAGAGATGCAGCA  
GAGAAATGCCACAGAAAGGGGAGCTGGAGAGAATCAAAGCATGAGAGGAATTCAACCTGC  
TGTCAGTGAAGGGGTCCAGATGGAACGCTTGAGAAGAAACGTGTGTAGCATCTAGGAGT  
AAAGACTCGCCCTGGCTGACAGCTAGTAAGGAAATGGGAACCTCANTGCTGCAGCCTCAA  
AGAATTGACTTTAA  
Sequence 62  
TGGCGGCCCGCCCGGGCAGGTACAATGATGGCTGTCAACTTCGTTTGTTTAAAAAAGACA  
ATTGAGCAGGACGACCCTCTCCAATCTGGGTAGCATGGTTAGCCTGTGCAGTAACAACG  
TAGGCTCGGAGGATGGGTACCT  
Sequence 63  
TGAGTGAGCCTAACTCACATTTAATTTGCGTTTGGCGCCTCACTGCCCCGCTTTTCCAG  
TT  
CNGGGGAAACNCTGTTTCGTTGCCAGNCTGCATTTAATGGAAATCCGGCCAACGCCGCCG  
GNNGNAGGAGGGCGGGTTTTGCCGTATTTGGGGCGGCTCTTTCCCGCCTTCCTTCGGCCT  
TCAACTTGACTTCGGCTTGCNCCTTCGGGGTCNGTTTTCTGGCTTGCCGGGTGAGNCCG  
GGNTATTCAANCCTTCAACTTCNAAAGGGGCCGGGNAATTACCGGGTTAATTCCCAAC  
CAGGAAATTNAAGGGGGGGAATAAACCGCCNAGGGAAAAAGGAAAACANTTGTGGAAGC  
CAAAAA  
Sequence 64  
GGGCGNTGGGCTGGAGGAGNGGAGCGGCNNCAGNAGGGGGGCGCCGGCCNCCCCAGCAGA



Table 1

NGNCTCCAGCAGCAGNNGNANCTCTGAGGCTCCANCNCCCACAGCACCGAACAGNGGGNN  
CCAGCINNCCACCAGGGGACCCNGGANCCCGGGCGACGGCNGANCCAACNCNGAAGGAGNC  
NNAACCTNNNCNNTTGAGCGGNGGNNCNCNCCCGCGACCCCGAGCAAAAGGAAGCCCAG  
CNGGAGGGGCGGNGGANNGACGCCNCNCGGGGGCACAAACAACCNNCNAAGGAAGAANN  
NGCCACCCACCAANCCNNANCAANACAACAAANGAANCAANACAACANAAACCCAAAAAC  
GAGNAAAAAAAAA

## Sequence 65

ACCTTTTTTTTTTTTTTTTTTGGAGGAGATGGACAGTGTCTCCTGATANGGNGG  
T  
GATGGGTAGGTAATTTAAAGCTTCTATTATAAAATCTAGTCTCTCTGACACTGCCCTG  
T  
CCACTGCAGTCACATCTCCAATACTGAAGGATCCTGAGAATACCGAGCNGGTCATGACA  
CTTACTCACGTCATTACCANTTTTTTGNACCTGCCCG

## Sequence 66

GCGGTGGCGGTNTCCCGGGCAGGCCACGCGGAAATCCCCTAACTTCCTTGCTATCTTCCC  
ATCCCATATTTAGGTTAGATAGAGAAGTGTGTATGTGTGTGTGTGTGTGTGCTCGCA  
CAGTGATGAACGTGTAACATAAATGAAGATATGGAAAAATACATCAATTAGGACAACATG  
ACAATTTCACTAGACTCCTATCAAAGAGTATCAGTTCACAGTTNNTNTAGATACTAGTA  
T  
AAAATTCAGATCTTGACTGTTTTCTGGGGATAAAGCANGGCTTTACAATTTAGCAGTNTG  
NAGCTAGCTTGAAACAGTAAACAACAACAGCAGAGCCTTAAGTGTATTTTTGTGACCTA  
AAACATGAACTCAGGGTTTCAAATTCCTAACAA

## Sequence 67

AGGTACTTGAAGGATAAGAAATTACTGTGTCAAATTACCCACAAGTTAAATGCCCATGTT  
CCAGACCTGTGGCTCTTAGTATCAGGCTTGTGATAGAGAAAAGGCTGCTATGAATTCTAC  
TCAGTGTGCTTAGACCAAAGGAAACCACCACAGGGATTTCACAGGC

## Sequence 68

GGATAAGAAATTACTGTGTCAAATTACCCACAAGTTNNTTGGCCATGTTCCAGACCTGTG  
GCTCTTAGTATCAGGCTTGNGATAGAGAAAAGGCTGCTATGAATTCTACTCAGTGTGCTT  
AGACCAAAGGAAACCACCACAGGGATTTCACAGGC

## Sequence 69

GCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCCATTTTCATCTTGCACCCGCAATAC  
CAGGGATTGTTGCGAAGAATCAGTTGTGTTATATTGTCCAAATCATCAAAGATACCCTGA  
GGTAAATTACTTAGGTTATTATTGGACATATCCAGTCGATAGAGCTGCCTTAGATAAGAA  
AAAGCATTTGGGGGCACCCGATTGATGTGGTTATCTTGAAGATAAAGCTTCCTCAGGTTT  
GTGCCTGGAAGGTTTACTGGTGCAGCAGTCAGGGAATTCGCACCAGGGACAGCTCTGTC  
AAATTAACCTAGGTTGAAGAAAACCTTGTACCTAAACCATGATTGTTCAACAGGTTTCCA  
TCTAGAACCAGGCGTTTTAGACTAGTGAGACCTTGAAGAGATGGTGATGAAATAGTGGAT  
ATGCGATTATCATCCAAGCGTAGTTCTTCTATAGTCCTGGGCAAACCCAGGGAATTGTG  
CTAAGGTGATTACGGGACAGGAAAAGCAGTCGGAGATAGTTGCTGTCTCGGAATGCTCCC  
TCTTNTATGCTAACTGCAGAGACAGAGTTGNCATCTAAATGTAATTCCTCCAGATAGG

## Sequence 70

NATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTGAATAAAAGGCTTTGGTTTCTCTG  
ATGTCTTCCAATCAATCACACAGAGCTTGCCCTGATACTCAGCCACACAGTCCAGCAGAC  
CTATATAGTTTAAAGTTTCATGTTGAACAGCACTTTCAAGAGCTCGCACTCCACTGAC  
AT  
CTTTCAGAATATGCTGGACACTTTCAATGTAACCAGACTTGAGGAGATTTTCATCTCTC  
T  
CTTTAAGGTTTCTGGGGTGAAAGTATGCTTTCCAAGGCTTCGTGGAACCGTTTCCC  
TT

Table 1

GTAAAAAGACGTTTGAAGTGTATTCTTTAAAGCCATCTTCTCCCAGTTCAGAATCATC  
C  
CGCTGTTTCCACCTCTCCAACAAAGAAAACCTGTTGTTTTGGTCATGGTCTGCTGAAGGA  
CTCGGGTCACACTTGGTATCACATTCTTTGCAAGGGGATTTTCAA  
Sequence 71  
AGGTACTTGAAGGATAAGAAATTACTGTGTCAAATTACCCACAAGTTAAATGCCCATGTT  
CCAGACCTGTGGCTCTTAGTATCAGGCTTGTGATAGAGAAAAGGCTGCTATGAATTCTAC  
TCAGTGTGCTTAGACCAAAGGAAACCACCACAGGGATTTACAGGC  
Sequence 72  
GCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATATATCATTTATTCAAGAGGCAGA  
TTTTAAACGTTTTTGTAAAAAGCTAAATAACACCCAGAGTGACTCAAAAAATTTCTCAA  
C  
TTTGCCCAAGTGAATAGTAAGTCTAGAGTTTTTTGGGTTTTTTTTTTGTGACAGAGTTT  
C  
TCTCTGCCGCCAGGCTGGAGTGCAGTGGCGATCTTGGCTCACTGCAACCCCTGCCCG  
Sequence 73  
GGCGGTTNTGGGGGGCAACACCGANCCGCAGAGNCACACTNGCAACAAAAGNACTTNTT  
TGGGGGGGGGAAAAACCCCGGCCCNCCNGNCCAGCNGGACCATCNATTTNNTCCNCCNC  
CNCGGAGCNGCNCNCCNAAAAAGCNCANAAACAGNAGAGANCAGNNGNCNCNCGNNGCAAAN  
CNAACANANANNCANGCAANGGAGGNGNANCNCATGCTTTTTNNGNNGGGGGGGGNGCG  
CNACGCNCCCNNGAAGAAAAAACGCCNCAGNAACGGGGGGGGGAGGACCCAGCCNNG  
GCGGNCGCNCNAGAACCAAGNGGAACCCCGGCCNCGCAGGAAANCCGAAANCAAGNCN  
NANNGAAACCCGNNNAACCNAGANGGGGGGGGNCC  
Sequence 74  
CCGCGGTGGCGGCCCGCGGCCGAGGTACCTTGTGAGAAGAGGAAGAAGGTGATAAGAACTA  
AGATCAGAGCATAGTAGAGAAAGTAGCCCTGTAAACAGAGGAGAAGCAGAAAGAGAGAGG  
GGAGGACAGAGCTTTTATTTTGTCTCCAGGTAAAAAGAAAAAAAAGCACATTCAACTCT  
ATGTAGTGTCTGTCCCAGGTCTTAGAACTGGAATAGACCAACCAAGCCCAACCTTCTTA  
AAAGTAAGACTNNGTGCTTCTGATTATATATTCAACTGCCTGGAAGCATGCAAGTAAAA  
TTTCCTTGATGGCATTCTAAGTTTCAAACATATTCTTNCTAACAAATGCATTTCAAAA  
AAATATTAGGGATTGNGGTTTTTTGGTTNGGACTTTAAAAAAAATTGTTTTNAAANC  
C  
ATAATTGGGGGCCCTACCCCAAAATGGATTCTTCTCCCCTACAGGTGGAGGGTTTCATTT  
TTTC  
Sequence 75  
GCGGCCGAGGTACGCGGGGAGGCGTTGTGGGAGGAGGTGCGGGGAGAGAGGAAGGGGCCCT  
GTGCACTGAGCNGGCATCAAACCTATTAGTGGATGGCCTTGCCTCTCAATCTGCAGTAAAN  
AGGAAACTAATCTGAAAGGGAANGANAGGACTGTGTGNCTTTTTATTTTTTAAATACGG  
AGTGTGCANTTTTACTGAATCTTGAATCATGCC  
Sequence 76  
CTTGCCCTTGGNTCGGGGGCCNTTTNCCCCCAAGGGATGGGGNCCCNCTGGNGTANGT  
GTTNNGGGGCCCAAATANGAGCGGANAGGTTAAANCAAGTAACNAACGACCGTAATCG  
TTGTAGTTCCAAATGGGGAAATTGGGNTTTTTCGGGNGGAACCTTAAGAAAGNCGCCTT  
CCAAATTGGNGGTTNNGGGGGAAAGGAAAGGAATTCCCCCTTGGCCAANAAAAACNC  
CCACNCCAAACCCCAAGGAAAACCGGTTGGGNTTTTTTGGGCCCCNTNGGAAAGGGGC  
NTNGTTCATACCTTGGGNANGGAAGGNAAAAATGGAATTTCTTGGGGGGGGGGCTTTG  
GTTCTTTTAATTGNAAAAAANATTNAATTAACGGACCCATTTTNCCTTCNAACNAAAT  
AAAAGGCCCCCCACGTTNNTTCAATTCATCCCCCAATTTTTNTCCCTNCCCCCTTT  
T  
TTANCCCCTTTTTTTTCTAAAGNATTGGGCCAAAGNNTTNTCTCCNTTTNTTTTNCCA

Table 1

A

CCNATTTTNAANGGGGGCCTTGGGGTTTTNGNGTTNTTCAANAANAACNTTTTTTTTT  
GN  
GGGGTAAGTCCCNACCCGNGNTANCNTTGGGTNCAAGNTTTCNNTTTCTTTGGGGGGGGA  
AAAGGCTTGGNGGTTTCCAANGTCCNTCCAATTNTCCTTGGGCCAAANGGGGGGCCTTTT  
NCCTTCCCCTTCCCCTTNCCTTGGTNNCCTTTT

Sequence 77

AAAAAGNGAATTCCANCNTGGGGGNGCTTGGNGAAAAAGCCTTCTTAAACCANGGGCCAA  
TTTGGCNCAGGCCCTTAAAGCCTTACCCTGGCCAAGTTTTTGAAGAGCCAAAGGGGGGC  
CAAGNGGGTTCAACCTTTTAACCCCTTGTCTGGTCTTGGAAATTGGTCNTCCCCTTGG  
GGGGAACCAAAACAAGGGNAGGGGGCCTTGGCCACCTTCAACTTGGGCCTTGGAGGTTC  
AGAACCAGGAAAAGGAAGGGGGAATCCATTCCGGGGACCTTGGGAAAAGNCCTCCTTGGG  
CCAAGGGGGTAATTGGGGCTTAGGCCCCNTGGGGTTNACCCCGGTTAAGTTGGAAGAA  
AAATTNGGGAAGNAAGGGGGGCCCAACCTTGGCCCCCAAGCCNTTAACCACCAAGGAA  
ATGGTTTTTTTCCCCAAGGGGAACAAACCAAGGGGAAGGGCTTGGTTGTTTCCCC  
ACCTTTGGNACCAAGGTTTTTCAAGNACCAAGGGAAAAGGTTGGGGGAAAACCCCAACCT  
TGGGGGNACCCCGGGGAAAAGNCCTTNCNTANNCCAAAGGNTGGGTTTTGGCCCCCAA  
CCCCTTGGGGGCCTTAANCTTTANAANTTGGGAAGGCCCTTTTGGAAANAACCCCCAG  
GCCCGGAAAAAAACCCAAAATTTAAAAATTTCAAAAAGGGGAAAGGCCAAGNTTTTCNTT  
GGTNCCCNAAANAAGGN

Sequence 78

TCCCTTTAAGTGAGGGGTTAATTGCGCCGCTTGGGCCGTAATCATGGTCATTAGCCTGGN  
TTCCTGTGTGGAAATTGTTANTCNCGCTCACAAATTTNCAACACCAACCATTACGGAAG  
GCCCCGGAAAGNCATTAAAAGTTGGTAAAAAGCCCTNGGGGGGTGCCTAAATGGAAGNTG  
GAGCCTAANCTTCAACATTTTAAATTTNGCGGTTTCCGCGCTTACCTGGNACCCGGCTT  
TTTTCCAANTTCCGGGGGAAAACCCCTTGTTCGGGTNGCCANCCTTGNCCATTTTAAAT  
GGAAATCGGGCTCCAAACGNCCCCGGGGNGNAGAAGGGCCNCGTTTTTGGCCGGTTATT  
TTGGGGGCCNCGCNTTCTTTNCCGGCNTT

Sequence 79

GAGGTACTTTGGGCCTCTCTGGGATAGAATGTTATTACGCAGGCACACCAAAACAAGAAG  
GGCAAGTTTCCAAGGATTTCAACCTGCTTCAATCAAGAATGGGGCGGGGGGGAAGAATG  
AAAGAACCAGGAATGGGTGGCCAAGGCCACCAGTTTCGTTTTTNGANTCCTCCCACCC  
TTTGGGGTTCCCCTTCCCGGCCCGAAAAGGTGGAACCCCGNATGGTCCCCTTTCCATA  
ATTGGTTTTAACAGGGTAAAAATAACAACCTNGCAAGAAAATNCTTTCAAAGGGCCTCCC  
AAGNCCCTTGCNTTGAATTGGGTGGAAGAAGGTGGAAAAGGTTCTTGGTTCCCCCAAG  
NACCCCACTTGGCCCACTTGAACCCCTTGGTCTTGGCCGAATTGNTCCAAGGTN  
GGGGCCCCNTTGGTTTTGGGGAATTGGTAATTCCAAGNAAGGAATTGNAAGNNGGGAAGC  
CCCTTTGGGGGGNAANGCCCTTGGGGCCCCAAGGGGTTTTTCTTGGGCNTTGGGGTT  
AACCTTGGCCCCCGGGGGCCCGGGGCCCCGGNCTTCTTAAGAAAACCTAAGGTNG  
GGGGAATTCCCCCCCCCGGGGGCCTTTNGCNAAGGGGNAANTTTTCNCAATTANTTCCAAA  
AGNCCTTTAATTNGAATTNCCCCCGGTTTNGAACCCCTTTTGNANNGGGGGGGGGGGG  
CCCCGGGGTTNACCCCAAGNCNTTTTTTGGGGNTNCCCCNTTTAAANTNGGAAGGG  
GGGTTTAA

Sequence 80

TGGCGGCGATTACTGTGCGAGAGGTAAAGGATATATGTGGCTACGATTACGGCCTCTCT

Sequence 81

GCGGTGGCGGCCGAGGTACAGCCAACCCCTAGGTGTGGACCAGCTGAGGCACGGTGGGC  
ATGATATGCAGAGGGACTTGGGGCTTGCCAAAGGTAAGCACAAAGAAGGAGTCACGGG  
TTCTGTTGAGGCACTGTTGGGATTAGGAGCCGGAGGGGACCTACTTTTGCAGGAACCTA

Table 1

GCATAACTTTGTGTGACGAGACTGCACAAGACAAAGCTCANGCAAGTGGCTCAGTAGTTG  
GCCAGCCCAGCAGGGTCCTCTGTATGAGTGTGCACCCAGCTGAAGAGAAGAAATGGAGAG  
CAGCAATTGGAGCTTNAGGACCGGCTTGCAGTGTGGCTCCAGGTTATACCCACTGCCC  
AAAGCAAAAGCTAGAGAAGCAAGTGGAGAAATGCTGGGAGAAAGCTG

Sequence 82

TGGCGGCCGAGGTACGCGGGGGAGTCAGTCTCAGTCAGGACACAGCATGGG

Sequence 83

CGAGGACCTTGTTCAGCTCTTTATTTCTTAAGTCCCCTCCCCGAGGTAACACATTT  
CT  
GCTTTTTTAGCTGTTTCCTCTAGTGTAGGTTACCTNGCTAATTTTTGATTCAATCACT  
T  
AACCACCGTTACATACTACAAAATATCACTATATTATGACCATGATTATATTTTTNTTTTC  
TTTTTCCCTTCATCAAGGAAGTTCATCAAAGATTTTCATCAAAGTTCAATGATGACCTC  
T  
TTTTAAATTTTCTTAGTATTCTATGTAACATCACCGATCTTTTCCCCACACACTTCAA  
GAGGCTTTTTTAAANATAATNTTTTACATAGGCCNTTGAGGCACANGATTAACCAATCC  
CTNTTTT

Sequence 84

GTGGCGGCCGANGNACTNNGGCCTATNTGNGANANAAGGTATTNACCNNGNNCACAACAA  
ANGCATNNTCCATATTNNAACNGCTCATCATATGGNGNNAANATNNGACAGANGGTGCA  
ANCACNNTNCACTNGATATACNCCTTGGTNCCTCCGGCCGCTCTAGAANCTNANTGGGAT  
CCCCCCGGGGCCTGCAAGGGAAANTTTTGAATAATCAAAGCCTTTATTCGGAATAAC  
CCCGNTGCNGACCCCTTNCGAAGTGGGGGGGGGCGNCCCCGGGTAAACCCCCCAAGACCT  
NTTTATGGTTTTCCNCCCTTTTTTAAAGATTGNAAGNGGGGTTNTAAATNTAGGCCNG  
CC  
CGCCTTTTGGGNCNGNTTAAATTNCAATNNGNGTTACAATTAAAGNCCTTGGGTTTT  
TT  
CCCCTTGGTTGGTTAGGAAAAAATNTTNGATTTTAATTACCCNGGCCTTTNCNAACNAA  
AAATTTTTCTTCCACCAACCCAAAACCAATNAAACCTNAANTCCCCGNGGGGNAAGNC  
CNAATTAATAAANGATTTGGTTAAATAAGGCCNCTTGGGGGGGGGGT

Sequence 85

CCGCGGTGGCGGCCGAGGTACTTATATTACATTATGCTCAAATGCAAACACTTATGCTAA  
ATGTTATATTTGGGAACAAATTGTGTAATACTGATGACGTCAATGGATCATTACAA  
T  
TAATGTAGGTGCCGTGGGCAGGAAAGCTAACTTTANCTGAAAGCATCTNNAACGTGCTTA  
TTTTTCATGGGCCCTCAAAGGAAAGGGATGAGGCCAGCCATAAGGAANGGCTTGGCCAAA  
TATAGTTCTTGTGTGCAAGAACAACAAATCCCATTTCAACAGAACTAACGCTGGCAT  
GCCATTCTNTCCTNAGGTTCTTGGCGTGCAGTGAGCGAGGCCNGGATGGCAGTCAAGGAT  
TCATTCCTTTG

Sequence 86

CCCCGCGGTGGCGGCCGAGGTACATCCCTGTTTATCCCATTCCATCCACCGAGGCCCAAC  
AGCATGGATGATCTGTTTGCAGGGAAGCCTCCCTGCTCCCGTGACAGCTATCTCACCAGC  
TGACACTTTACCATATCTGGCAACAACTGTTTGCTCTCTTCTTGGATTTCAAATCCAC  
C  
AGCTTTTACCAGGGCCAGGGCCAGGCCTCCCCATGCAGAAGATCTTCATTGGCTGCATT  
CACCACAGCATCAACAGCATGTGTGGTGAGGTCATCTTTCCACACTGATACTCTATCCT  
AGGAGTCAGCATTTTTCTGAACACTTGCAGAGATTTGCTGTTGCCTTCCTGAACTGGAGA  
GACCAGGGTAGAGATACAGCCAACTTATTCTGGAGGACTTCACACAGCTGACGCTCATT  
ATTTTTTAAATTTTGAAGTCATTGGTGGTTAATGG

Sequence 87

CGGTGGCGGCCGAGGTACTCTTCAAATTTGTCAAGGTCATGAAAGACAGCAAAAAGTGAA

Table 1

GAATTCCTTACAACTAGAGGAGACAAAGATTGGAGAAGAAACAATGACTGGCTGGGCACG  
GTGGCTCATGCCTGTAATCCACTTTGGGAGCACTTTGGGAAGGCCNGAAGAGGGACAGAT  
TCATCTTAGNGTTTGGGAAGTTGNGAGAACGAAGCNNTGACTCAACGTTGGTAGAAAAACN  
CNNCATCCCNATACCTATAATAAATACCAGGAAATTACGCCTTGGGGTCGTNGGTTGGNTG  
ACATTGCCCTTATTAAATNCCCCAGCCTTACCTTTGTGAAAGGGCNCTTCCGGNCAGGGA  
AGAAATTNNACCTTTNTATACNCNCGGGGAGGGGCATGAAGTGTTTTGTTNGTTTTGAA  
GCNCCAAAAAAATTTGGCCGCCCATTTTGGNCAACNTCCCANGCNCCTNGGGGCCAANC  
AAAGAAGCCGAA

## Sequence 88

GCCCANAAAAACCGTAAAAAAGGCCGCCGTTGCTTGGCGTTTTTTCATTAGGGCTCCGCC  
CCCCTTGACCGAGCCATCACCACAAAAAATTCGACGCTCAAGGTCAAGAAGGGTTGGGCGG  
AAAACCCCCGACCAGGGAACNTATTAANAGAATACCAAGGGCCGTTTTTCCCCCCTGG  
GAAAGGCTTCCCTCCGTGGCGCCTCTTCCTTGTTTTCCCGAACCNCNTGGCCGCCTT  
NACCCGGGNATTAACCCTTGTTCCCGCCCCTTTTTTCTTCCCCCNTNCCGGGGGA  
AA

## Sequence 89

CGGGCAGGTACCGCTCAGCCTGCTTGGTTGCATCCTCCGCATGGCGAGTCAGCTCTGAGA  
TCTGAAGGTCAGCATGCTTACGCTCGGCCTCACATGTGTCAAAGTGATTCTGGATCTCCT  
TAAGTCGATCCAACATCTGCAGNTGCTGGTTTTCCCATTCCTCAGTTCACGTGTAA  
AT  
TCTCTACTTGTGATGCCAAATGTGCTTCTNCTTGTCTTTCTTTCATGCACCGTTN  
A

## CTTCCTTTAACT

## Sequence 90

GCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGATCACAAAGCAGACAAACAG  
GAAAGACTGAACCATCTATTTGAAAAAAGTGACTTCATTCAATTGGTTCAGCCACCCGTA  
TCTGTAATCTCTCCATTCTGCCCTCTTGATTTAATGCAGCTATAAAGGAGAGTATTTT  
A  
AAAGTGCTCCAGTAGGAAGAACAGTCACAAGGCACTGTTATATCAATTCAGTGTGACA  
CAAGCCCTGATTATTTAATAGTATAACAGCAGTGAATCAGAGTCTTTCATCTGACTTT  
G  
CTGACATTNCCAGCAGCTGNATATTTAATTCACAGTTAGGGGCTGGACAACTACAGCCN  
TTGATCAGAATGGAAGCAGGCATCCTTGAGCTTCTTCTAGGAACAAATACAGATGTGCAC  
AAAATTTTCATTTATTCAGT

## Sequence 91

GATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGATCACAAAGCAGACAAACAGGA  
AAGACTGAACCATCTATTTGAAAAAAGTGACTTCATTCAATTGGTTCAGCCACCCGTATC  
TGTAATCTCTCCATTCTGCCCTCTTGATTTAATGCAGCTATAAAGGAGAGTATTTAA  
A  
AGTGCCTCCAGTAGGAAGAACAGTCACAAGGCACTGTTATATCAATTCAGTGTGACACA  
AGCCCTGATTATTTAATAGTATAACAGCAGTGAATCAGAGTCTTTCATCTGACTTTGC  
T  
GACATTTCCAGCAGCTGTATATTTAATTCACAGTTAGGGGCTGAACAACTACAGCCATT  
GATCAGAATGTAAGCAGGCATCCTTGAGCTTCTTCTAGGAACAAATACAGATGTG

## Sequence 92

CCCCANGAGGNCACCAAGCATCCCANACCCTTNNTCCGGGNGGTGNAAANCCANGGCC  
GCCAGGCAANGGCACANCAAAANCCGGGCTGCGNCNNGAGCACNGGGCANCCCGAGAAAA  
CAAGGNCNCAACNACNGACNGGCNAAGAAGGGGCCNCCCCNGGCCAACNNACCANACA  
GNNNAGAGCAATCTTTTTTNGGGGNGGAGCACCGGGACCACCACCCNGACAACAAAGGA  
CCCCGGCCGGGGN

## Sequence 93

Table 1

CCCGCGNGGCGGANATTGGGGGNGAAACCTNANANCANGGAANCTTTGCTTTNNGNCCA  
GATTANATTGGGGGNGCTTAAANCCCCAGCGGCNNNGACAGNTAATACACCTCACGTTT  
TTNGNAACTGGGGGGGGCAGNACCN

## Sequence 94

TTTCCCGGGCAGGNACAGCTCCATGAGGTCACCAAGCATCCCATCACCCNTTNCCGGCAG  
TTGCATGGCAATGGCTGCCAGGCAATGGCACATCAAAATCCGGGCAGCGTCTTGAGCACT  
GTGCAATTGAGTCAACAAGGTCTCAACTACTGACTGGCTAAGATGGGGCCTGCCCTTGGC  
CAACTTCACCATAAGTTAGAGCAATCTTTAAAGTGGNCTGAGCACCTGGACTATCATC  
TTGACTACAAAGTACCT

## Sequence 95

ATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTGTATGATAACATTGCAGTCAAACATA  
TCTTGTGACAGGACAGTTTTTTGTGGGGAGGAGAATTAGACCAAGTTCGGAGATATATTT  
TAGGAACTAAAAGGAACGTAAGATCTGGGGTAGGGGATGAGCAGCTCCACACCCGTCTC  
CTGTGTGAGCTGTGCGCTCCCGACTGGGAAATGTCTAACTCCATCGAAAACATGAGATGA  
GGGGCAGGGAAGGGGCTACTTCCAAGCCTTTCATTATAATACTGTGTGTAACCTTTTGCA  
TATTTTCAGAAAAGAAACCAGTAAGGTGGGTTCAGTTGTGGGCTCATCCTGACTTAGAAA  
ATTTTAAATAATTTAGCCCATTGAAATGTTGATAATATAAGGCATGCATGAATAATAATT  
TTTGCTTCTT

## Sequence 96

AGAAATGTCGCCAAACTGCCGTCTTCCCTCCTCGGCCGCTGCGACAAACACCCACAAAA  
TGGCGGCAGCGCGCTCGCCCTAGAATCCCCGAGTCGCCTCTCCCCGCGTACCT

## Sequence 97

AGCTCCCCGCGGTGGCGGCCGAGGTACCTTCCCTGAGGAGCCCCCTTCAGAGGGGCGAA  
GAGCAGTATCTTCAGAGGCCATCCAAGTTTAGCATAACAAGGAGGGAAAGAGAATGCAG  
AGAAGAGGCTGGTGATAGACAAGTTTCATGTTACAACTTGAATTGCAGAGGTCAAGAGT  
TTAAAGAGTTTGGGATGGAAGAAATCGAGAATTGGGCT

## Sequence 98

GCTCCCCGCGGTGGCGGCCGAGGTACCAGCAGAGATGGCTTCAAGATGATTTAGGACTTG  
GGTCAGTAGCACTTACTGATGTAGTGGTTTGATACACACTGATTACCTTCTTCTTTTT  
T  
ATTCTCTGGCATTCTCCTATATACTAGCCACTTTTAAACAATATTTGTGGGCTCTTTT  
CTTCTGCTTGCTGTAAATATTAGGGTTCCTGAGTCCTTACCTAGATTTTCTTCTCTTC  
T  
TACTCCTGGCCTTTCTTGGGAGAGTTCATAATTCACCTACTCCATCTAGATATTTGTG  
A  
TGTCCAAACACATCTCCACGTTAGGCTTCTATTTGTAGCATCAGACCCACACTTTCAA  
CT

GTCCACTAGATAGCCTCACTTGGATGCTCTGCAGGCCTAAATAACCTTTGCGGACAGATT  
AACAGGGAAAAAATATTAATAGGAAAAAATATAGATTTTATCTGATGGTAAT

## Sequence 99

TGCGTTGCGCTCACTTGCCCGCTTTCCAGTCGGGGAAACCTNGTCGTGGCCCAGCCTGCA  
TTANATTGAAATCGGCCAAACCGCCGCGGNGGAAGAGGGCCGGTTTTGCGGTAATTGGG  
GCGCCTCTTTCCGCTTTCCTTCGCTTCACTGGACTCCGCCTTGCGGCTTCGGGTNCNGTT  
TCCGGNCTTGCCNNGGCCGAAGGCCGGGTANTTCAGGCCTCCACNTCAAAAAGGGCGGG  
GTAAATNAACCGGGTTAATCCACCANGAATTCAGGGGGGGAATNAACCGCCAGGGAAA  
AANGAACCATTTGTTTGAAGCCAAAAAAGNCCCANCCAAAAA

## Sequence 100

GAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTAA  
ATATGTTTTAATATGCATATCATCCAGGCAGCATAATGTTATTTCAAAGACAGATTTA  
TCCATTGAATTATTGTTTTAAAGTTGGGATTCTCTACATAGAACATATTTTCTGAAAT

Table 1

TTCAAGAATATTTTCAGGTAAATTAAGAATTAATTTCTTCTAAGACTATCCAATGNGTCT  
CAATCTATTCCATAATATAATCAATGATAAAGATTACATGTATCACCAAATTCGAGGC  
A  
GCTTAGTTGAAAAAATTTGAAACAGCTTACTGAATTCATTGCTGATTCTGNGGGGGCT  
TCCCCAATGGCATGNGTGCTCCTTTGGATGCCTGCAGGGGTGGTCACTGCAAAGTCGTCA  
TNTGTGCCACTGGGAGTTGGGGAGGCGGCCTGCTGGGGTTCCTGGGT  
Sequence 101  
GGCCGAGCCCAATTCTTGATTTCTTCCATCCCAAACCTTTAAACTCTTGACCTNTGC  
A  
ATTCAAGTTGTGAACATGAAACTTGTCTATCACCAGCCTCTTCTCTGCATTCTCTTCC  
C  
TCCTTGNGTACTGCTAAAACCTGNATGGNCTNTGAAGATACTGCTCTTNACNCCTCTGAA  
GGGGGCTTCCTNAGGGGAAGGTACCTCGGCNCGCTCTAGAAGTAGTGAATCCCCGNGC  
TGCAGGAAAT  
Sequence 102  
CGGGTCCATAATAATGCAATTAACAAAATCCAGGATTTAAGGATTTNTATAAGATTAAAA  
AAAAATGAGGTGGTGTGCGAGTGGGGAGAGAAAAAGCAGGAAACAAAACCTGGTGAGAGG  
AAATGACCCCTGATGAAAGATCTTAACACCAGGCTGAAGATTTTAGATTTCTACCTAT  
TAGAAATGAATATTCAGTGAAGTTTGTGAAGAGTCACTGAAGTGTACAAAGAAAACAA  
GATTTGAGAAAGATTCTTGAGAACTCGTGCATAGGAATGAAGTGAATAAGGGCAGATTA  
GAGAAGAACTAGGCCATGAGGGCCTAGTATCCAGAATGAGGCAGAGGGAGGGACGCTGGA  
TGTGAGCAG  
Sequence 103  
ATTGAGCTCCCCGCGGTGGCGGCCGAGGTACTCCTTTCTTGTTTAAACGCCTCACCCTG  
ACCACGGAACGTCTTGATAGAGCCATCTAGTAATTCTTAAGTCCTACCTCATCCAACCTT  
GTTTTGACTCCTGCAGTGAGCACAGCTGCCCTCACCCTCCCCTCTCTATGCCCTCACCTT  
TGCAGGAGACTCTCAATTTCTCAGTCCACATCAGCTCTNAGACCACCAAANGCAAGGGTT  
N  
Sequence 104  
TGGATTGAGCTCCCCGCGGTGGCGGCCGAGGTACACGTCAACACGGGTGGTTGCATGCAT  
TCCTCAAGTCTGTATGACTCTACCAAGATACTGTGAAGTTGTCTTCTGATTGCACAT  
GG  
GGAGAAAATGCTGAAACTAGTGGCCACAGATGTCTTTAATTCCAAAAACC  
Sequence 105  
AGCTNCCGCGGTGGCGGCCGCGGGCAGGTACTTTCTAGGTATATCATGTGCCCTAATG  
TGCTCCTAATATCATAAATGTTTACTTTCCGAAAAGTATTTCTGAAAGGGAGCATATTT  
T  
GGAAAGTGCATAGGCTTGTAATCATACTTGTTTTCAAGTTTCACTTTGCTATTCAACT  
A  
GAATAATCTTGTGCAAAACCTGAGCTGATTTTCTCATCTATAAAATGGAAACAATACTT  
T  
CTGTGATAATGGGTGCAAAACACAAGGTATACTGGTTTCTTGCTCTGGATTCAAGTT  
TT  
CTTCTAGTTTCAAATTTTAAAGGGAAACCAAAATGTTTCATGGNCCNNNCTNGCNGG  
NANGGGANTTTCCNCNAAAAAAAAAANTCAACGGGGGGGGTTTTNCCNNTGGGGANN  
CCCAAAAAGCCGNNTNTNGGCCANGTTTTNNGNNNCTTTTGTNAGGGGNTTNGGGCC  
NCCCTGCTTTACCCCNTTTTTANATAACNNCCCCCTTTTGGNNTNGGGGNGGGGNNT  
TATATATNTTNTGGGGGGGG  
Sequence 106  
GTAGTGGGCAGCGATNAGGGCTGGGGCTCTTCTGAGTTGTGTCAAGGTGAGAGATTGT  
GAAGAACTTGGCTTGCAGGGTTTGGGCATCAGCTGCCATTGAGGGGCCGTTTATTGTCT

Table 1

CAAAGTGAATGTGGGGTGGTTTGATCTGCATGTGTCATTTGTATCCACACAAGTTAATTA  
TTCTGCTTTTGTGTAGTACCTTGGTTGTGAAGCAGAAGCTACCAGGCGTNTATGTGCAA  
GCCATCTTATCGCTCTGCATTAAGTAAGATGAGGATTCACCTCTTAATTTATGGGCACAT  
T  
TTAGTTCCCTCCACACAAATTTAAGGCCTTAACCTCTTNATTTTTCTACANTGGNGGG  
T  
TTTGAAGTAATATTCATACGGGCATGGGACCT

## Sequence 107

CAGAGAAAGCTTGCCAACGGTGATAAGTAGGTTTGTCTAGCAGCACTGATGCGTCGTGGA  
AGTTGATGGTCATGAACATACAGTGTGATAACCTATCTGCCCTCTTGACCTTTTCTAGT  
A  
GTGCTATGTCAATTTGGTACTAAGGTAGGTGAATTTTCCAAGTGTCTTGAAATAAG  
GA  
AACATCAAGAATAATGTAAAAGCCTCATATACAATAATGAATAATAAAGAATAATGTGAA  
GGCTTCATTCAAGGTTGGGGTTTGCCAGATACATTGCAACAAAATGACAGAGCAGCCAAG  
GTATTTAGGGATAGTGGCCAAAGTATTGTAATGATGGCTTATGGGAGTGTCAAGCTGGAT  
AAAAGAGTGAAAAATGAAATAAAAACTAATGGGATTGGTTCNANTCCGAAATAGGCAG  
CNCNGCCCCAATGGCNCCCATNGCCCCGGTTTNAATTAAGGGG

## Sequence 108

NCCGGAATGGAATTCTACATCAAGTGTCTGTGCCTCGCTGCTGAAGGATAACCCAGAGTG  
CAAGGTCATCTTTGTTGCTGAACAGGGCTGGACCTGTGCACTTAAGCACACTTAAAGGA  
TTCTATTCTTCATTCAAGTCCCCCAGAGAAATTGGCTCCTTATTTTCTTTACCTATTC  
C  
TAGACTTCCTTTTGTCTAGAGCCAGTTTTGCAAAGGGCACTTTTATCCATCTCAGTTAT  
T  
CCCAGAGGTGACAGAATGAGTAAACCATATGGGGCAAATAGCATATATGAGCTAAACCAG  
NTAACTGTTAACCAAGGCACATGGTCAATGCCCTTAGTATTTTTTTTTTTTAAATCTTCC  
TAAACGGTTATTTTCTAGCTGTACATTCCCAAAA

## Sequence 109

GCGTCCGAGACACTTCTCTGACTAACCATAGACTATGTGGAAAATGGTAGCTGGATTGCC  
TTTGGGTGGAGTCCTTGCCCTGTGGCATAGGAAACAAAGGAAAGGAGAGAGATGCCCTTT  
GAGATTAATGAAAATGCTCTCAGCCAAATAAAATCTAAAAATAGCCTCCTTGATACGA  
ACGCGTGGCCCCCTAAGGGTCCTAAAGAGAGAGCTAGGGGAGGTTTCACTGGCCACAGAGA  
TGCTAAAGGTCAGGAGCAGACTTTTAGGGTTTGCTGTTTTATAGGTTTAAAGACCAGGTC  
TGTGTTTTGATAACTGAACTTGCTAATAGCTGGCCACTTGAGTTGCTTCTCCAGCTCT  
T  
TGTTTGTTTTAAATAAAGAGATTTCAGCCAGTAATAATGGGAAGAGCTGCAATGACTTCC  
CCAG

## Sequence 110

GTGCTGCCTGCACTGTGACTAAGACTTTCTGGACTATCATCATGTTTAGGAGTTGATGAG  
ATTATAGTTTCATGTAAGTGTATCATTAGATGACAACTCTACATCTTTAGGCATGGAAA  
C  
AAAAATTTTCTGGAAGAAAAAAGTGAACATCCAACCTCCATTTAAACAAATTNGAT  
TGTTTCTTTGCTATTAAGAACTCGGTGCTCTTTCTCCCACTCTATTATATTGTCAAAT  
ACATCTGGAGACACTTTATAAACTTTTCTCCTTTAAATTACCTGGTTTATATATTATCT  
CCTGTAGCCTGCATAAACGATAAAGGGTTAAACATA

## Sequence 111

GCNCGCGGGATTGGCCGACGCAGCCATGGTAGGTCCAGATCCCGTAGAAGGGAGCGGGGT  
CCCATAGGTTACGGCCGATTCTTGAGCTTCTGGACTGAGGGCCGCGGTAAGCAGTGGTC  
TGGGCTCCCGC

## Sequence 112



Table 1

CGTGGCCGAGCGGTTTGCATCGCCGCTCGCGCAAGGCCATGAGGTTGGTCTGGGTGAAGA  
ACGCATCGATGGCGGCACGGGCTGTTCCGGCACGTAGACCTTGCCGTCACGCAGACGCT  
CCAGCAATTCGCGCGATGGCAGGTCGATCAGCAGCAGCTCATCGGCTTCTGCAAGACCC  
AGTCAGGCAAGGTCTCGCGCACTTGACGCGCGGTGATGCCGCGCACCTGGTCGTTGAGGC  
TTTCAGATGCTGGACGTTGACTGTGGTGAATACGTTGATGCCGGCAGAGAGCAATTCCT  
GAATGTNTTGCCAGCGCTTTTCGTGGCGGATTGCCGGGGCGTTGCTGTGGGCCAGTTCG  
TTCACCAGCACCAGTTTTGGGCTTG

Sequence 113

GCGGCCAGCCAGACTGGACCCCTTAGCCTCGAGGCTTTGCTGAAGCTCATGTGAGGGGG  
CGACTGCCCCTGACATGGTGTGGATTCCAGCTGCTGTGGCCCTGAAGGTGGGTGGTGGG  
AAGAACGGGAGAATGAAGCCAGCCTTGGGAGAGGTAGGACGCCAGCCCGGCCAGCTGCT  
TCCAGCATCTGGATCCAGCCTCACCTGAAGCCAGCCACCTNCTGGACTGCAAAGTCATTT  
GTNAACACCGAAACACAGGGTTTCTGACCATTGCAACCCAGGGTCCCGGCGTGTCTGTGGC  
T

Sequence 114

TTGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGAAGCAACTGTCAGCTAGTGAGATTA  
CTGTGTATGGCCAATCCAGATAAATAAGACGATCAAGTCTTTATGAAAAGGAAAGAAAAA  
TTTGAATGCACATCTCTGTCCAGCTCAATTCCTCACTCCTTTTTTAAGATGGAGAGCT  
G  
TTAGGTTTGTCTACACAGTAGGAAACACCTGATTAATAACAGCATGGAGCCAATCTTGA  
CAAAGAAATTGGCTGCATCCAATAGAATCCAGGGCCGGTCTGTGGTGGCTCATGCCTGTA  
ATCCCAACACTTTG

Sequence 115

GGCCGGAATCGTTGCACCAGACNAGGCCCCAGGGGCCAGCTACTCGAAGAACAAGCCAA  
TGGATTGGAACGTCCTAGGACAGATGCCACGGCTTTGACCCAGGCTGGGGGTGCACGGAT  
CTCACTGGGGTTAGTTGGTCTGGAGGGGGAAGCCCCATGGGTCCACCAGGATGAGGTGTT  
AACTCTATCAGGGTACCT

Sequence 116

GGGGCTCGTCCGGTGGCGGCCAGCGAATTGGTGACGACGCTGATCTTCACGTTGCGCCCCG  
GGATCTCGCGCATCACCTCCAGCCCCGTGGCACCCGGAATCAGGTAGGGCGAGACGATGG  
TCACTTCGGAACGCGCGCGGCGCATCTGCTCGACCACGTTGTAGCGCACGCTGTCTGACAT  
CCAGCAGCGGCACGCGCCGTACGACGCGGTCTTGCCCGATCACGCGGTGAGGCGAATCG  
GCATACGCCTCGGCGGTGGTCCAGATCAGGCCGAGCTTGCCGGCGTTTGAAGGTCTTCGA  
CCATCGGGCTGTAGCCGAGCAGGGTTCTGTTGGGGCGCCGGGCTTCGGCGGGGGCCGGGC  
GTTTGGTGTCTGGGGGNCCCCGTGGGCCGGCGT

Sequence 117

GATGATGAGCTCCCCGCGGTGGCGGCCGAGGTACTCTAATGGAGCCCTCAGGACTGTCTT  
AAAAAGACAAAAATACCTCCTACAGTTGTTATCATCAACGTCAGTTGCTGGCTTTTCCT

A

AATTTGTCTTCTACCTCAGATCTAAACCATTGATAACATTAGGGCAATATCATGGCAA

T

CGTGGCCAGTAAACCATAGCAAATGTTTTCTCCCTAGGACACTATCTGTTTTACAGG  
AAAATTTTTCTCATAGAAAACTGTAGGAAAAGCCATGGGATGAGCTGAGAAGACCAAAC  
CTATCTCTTGAAAACAACAGTAGGGAGCGTNGGATTAGGAATGTCCTTGGTGCCTGAAA  
CAGGCAGACCAATCCTGAAACATCTTTCTCTGGGGACCGTAAGGCATGGAAAAATTTCT  
ATTACACTTANGGAGGGCTTCTAGGGAAACAGGAAACCGACAAAAATGGGAATGGGGCC  
TTAATTCATTTTTTT

T

Sequence 118

CTCCCGCGGTGGCGGCCGAGGTACGCGGGGAACCGAGGCAGCAGCGGACGTGAGCGATAA

Table 1

TGGCGGATATGGAGGATCTCTTCGGGAGCGACGCCGACAGCGAAGCTGAGCGTAAAGATT  
CTGATTCTGGATCTGACTCAGATTCTGATCAAGAGAATGCTGCCTCTGGCAGTAATGCCT  
CTGGAAGTGAAAGTGATCAGGATGAAAGAGGTGATTGAGGACAACCAAGTAATAAGGAAC  
TGTTTGGAGATGACAGTGAGGACGAGGGAGCTTCACATCATAGTGGTAGTGATAATCACT  
CTGAAAGATCAGACAATAGATCAGAAGCTTTGGAGCGTTCTGACCATGAGGGACAATGAC  
CCCTCAAGATGTTAGATCAGCACAGGTGGGATCAGAAAGCCCCTAATG

Sequence 119

GGTGGCGGCCGAGGTACCTGAACACCAGGCTCTTTACGGTCCCCTGGCCAGTGAAAGGGT  
CTAATATAAAACACACCGAGGCTGAAATAGCCCGCTGCTTGTGAGACCTTCCTCAAGCTC  
AATGACTACCTGCAGATAGAAACCATCCAGGCTTTGGAAGAACTTGCTGCAAAGAGAAGG  
CTAATGAGNTGCTGTGCCATTGTGTATGTCTGCAGATTTCCCCAGGGTTGGGATGGGTTT  
ATCCTACAACGGACAAGATGAAGTGGACATTAAGAGCAGAGCAGCATAACAACGTAACCTT  
GCTGAATTTTATGGATCCTCAGAAAATGCCATACCTGAAAGAGGAACCTTATTTTGGCAT  
GGGGA

Sequence 120

GTGGCGGCCGAGGTACCCGAGCTACCAGGCTGTGGAATGAGACCGTGGAGCTTTTTCTGT  
CTAAGATGCCCGTTACGGAAACATCGCTGTCTGTTTCAAGAGCTATGGGCATTGTTTCACA

Sequence 121

GCTCCCCGCGGTGGCGGCCGAGGTACAAGTTTATGTTTTCTTGGTGAAGGCTTTAACA  
GTTCCACCTTTTCTGCTGCTGGGCTGATTGCTCACCTACCACTATGACTAGATATGA  
TTCCATGTGCTTTTACTAGATTCTTTGTCTTGTGTATGGAAAGTGAGACTTTAAGT

A

ATAGTTACTGCTGAGAGAAATAGAAGACGTGACAACGTTTGCTTTCCCATTCAGTAGTCA  
GCGGTTGAATGGAATTATCTTCGTTTTTGGACTGACAGATTGTTTTACAATTCAGCTA

T

TCCCAAGCCTTACTATTCAAAGCAGAACCCTTCTGTCTTCTTCTGTAGTTGCTCTCTC

T

CCCTATATTCTGTTGTATTTTTTTCAAATAACTTATTACTATCTCAAGTAAATGTTTT  
ATGTTTTGTTTTATCTACCTCTTAATCAGGGCAGGGATATGTCTGTTGTATATTTA

C

TTTTCCCAATCATAAAGGTTTTGGG

Sequence 122

CCCGCGGTGGCGGCCGAGGTACACACTGGGATCTCCTTCACTCATTTTTTAACCCTGAC  
TGGGACACCAGAGACATGCTGCATCTTGTATTAGGTGTTTCATCTTGCAGAATGGCTGTG  
CTCCTGAAATATTTCTGTGAAGAAAATTGTTACAATCCCATTACATCACTGGCTTTTA

T

TATTAAATTGGAATGTTGGCTGGAAACAATTTTAACCC

Sequence 123

GCGGTGGCGGCCGCCGAGGTACGCGGGTGTGCAACTGCAAACCAAGTAACCTGCTAT  
GGCCAATTGTGAAGAGATGGGAGTCTCCCCGTATTGCCAGGCCGGTCTCAAACCTCTGG  
GCTCAAGCAATCTTCCCGCCCCACTTCCCGAAGCCCTAGGATTACGGGAGTGAGCCACCG  
CACCCAGCCAGAAAAACGTTTCAAATATTGAAAACCTTACTTTTTTCAATGAGCATTT

T

TGCATCAAGGGGTAACAGGGACATTAGGCTTTTTTCTCTTAGACTCCAAACAGTAAGGT  
CAGAAATTTATCAAGACATTACATAGGAGTAAGGGCACAGCCAGGGGGTGGTGGGGGGGAG  
GGACATTTTCCAGCA

Sequence 124

GCTCACCGCGGTGGCGGCCCGAGAAATGTCGCCAACTGCCGTCTTCCCTCCTCGGCCGC  
TGCGACAAACACCCACAAAATGGCGGCAGCGCGTGCCTAGAAATCCCCGAGTCGCC  
TCTCCCCGCGTACCT

Table 1

## Sequence 125

ATTCAACAAATATTTATGCATCAGCTACATGCCAGGATCTGTAATAGATTCTGGGTGTGC  
AGTAGTGATTACTGCAGAATGCAGACATGGTCCCTGCATTCTTGAGAGGGGAGACAGCAAC  
CAAAATAACAATTACAAAAAGTATGTAACATAAACAAGTGGGAGAAAGGGAGTGGGAT  
TACACAGCAGAAGTGGAAGGAAGGGCCCACTTAGAGTGGTCAAAGGCTTCTTGAAGGTAA  
CATGTAAGCTGAGACCTGAAGAAGGATGCAAAAGGGCCAGCATGTAAGGAACAGAGAATA  
AACATCCCAGAAATAGAAAATAACACACAAAAACCTAAAGTCATTAAGAACATGATCAT  
CTTTCAAGAACTAACCTTGAGATCAGAGTAGTTTGATTATAGAGGAAAAGGGTGAGTGC  
AATGGAAACGTTAAAAATAGCCAGATCACGTAGAGCTCTTAGCCTTTTGGTAGAAAAA

## Sequence 126

GCTCCCCGCGGCCGGAAGAGCAACCGAGATGAAGGTGAAGATGCTGAGCCGGAATCCGGA  
CAATTATGTCCGCGAAACCAAGTTGGACTTACAGAGAGTTCCAAGAACTATGATCCTGC  
TTTACATCCTTTTGAGGTCCCACGAGAATATAAGAGCTTTAAATGCTACCAAAGTGA  
ACGAGTATTTGCAAAACCATTCCTTGCTTCGCTGGATGGTCACCGTGATGGAGTCAATTG  
CTTGGCAAAGCATNCAGAGAAGCTGCTACTGTCTTTCTGGGGCCGTGTGATGGAGANGT  
TAAAAATTTGGAATCTAACTCAAGNGGNAATGNATTCCGNACCCTNCGGNCGNNTNTANA  
ACTAGGGGGATCCCCGGGGCTGNAGGGAATTCGANTAAAGCTTNNTTANTCCCCGCCAC  
CNCNNGGGGGGGNCCCCCNCCCATTNTNTNTNTANGGGGGGNTAATNGCCCCC  
GGGGGAAAAAANNNAAAAAATTTNTNGNGGAAAAATTTCCCCCAAANTNTNCA  
NNAAAAAAAGGGG

## Sequence 127

GTGAAAAACAAGAAAGCTGAGAGAAATCAACATGTTCCCAAGTGCTGTATGTGAACAAT  
AAATCTGAGACATACCTCTAAGGCTTTTCCAGAGACAAGAAGCTCTCAACCTGTAAAGAA  
TTCCTGGGACATGACTGAGAGCAATGAGAACTCCAGTGNCAGAAGGTTAGCAGATATAGT  
GTAGAGCATACAGATATACTATAGTTCATAACACTGGTGGCTTAGCTGTAAATCACAA  
AATAGCACTGGAATTATCTAGTGATCATAGCACATAGTCCAAGAAGAAAAATTTTGATC  
TTGTCTTAACTTTGTGGAGCCAGTGGTGAAATGAGTCACACAAAGATGCAACAATGATT  
GAACCCAGNCCTCTTAGACTAACATATTCTTGCCATCACCNCCTAATTACAATAAAA  
ATCAAGACCCATGAAGGAGCATACCTTTTTCTGNAAGNAAATATTGNTTACCTCAGCTCT  
ATTGGTATTTGATGCAAAACACCCACATGCAATTTGGATCAATAAGACATGGGAAGGGGC  
CAAAATGNNACTTCATGCTTAAGGAAAAAAGGAGNGGGAAGGAGGNCACCAAAGCNGG  
TNCNGNAATGGGTNAACTTGGGGCATTATANGGGGGNGCTTTAAATACCATTTT

## Sequence 128

GCGATTGGAGCTCCCCGCGGTGGCGGCCGCTGTGAAACAATGCTCATAGCTCTTGAAACG  
ACAGCGATGTTTCCGTAACGGCATCTTAGCACGAAAAAGCTCCACGGTCTCATTCCACAG  
CCTGGTAGCTCGGTACCT

## Sequence 129

CGCGGTGGCGGCCGCCCGGGCAGGTACAGTCAACGGCCGAAAACCACTGAGCTTTTCCCT  
CTGCCTGGCACATATCCAAGTCCCTGCCTTCTCAGCTGATGAAGTCTTCATATGCCTC  
CTTTTGGGTGTCAGTGGAATGTCACCTCTTCTAGAAAGCTTCTCTGGCTCTCCAGC  
CT  
GGCCCAGGGCTCCAGCTATGAGCTTCCATAACACCCCTAGTTTTCTCACATTGCCCTCA  
TAGTATATGGAATTTGTTCAATTCAATTGCCTGGCTTCCAACAGATGCCAGCTCCAAGAAG  
GCAGGAGCTGCTTCTGGGTATTGCTTGCCATCAAGGCCCTCACACCCAACCTAATGCCTG  
GGCCAGAGGTAGGTGCTTAATAAAAAATTGTTGAGGCCGGGGCGTGGTGGCTCACGGCT  
ATAATCCCAGCACT

T

## Sequence 130

GCCCAAGGGGGGGCCAACCCACATTATTTGNNTGGGGCANNCTGCCNTTTTTNAAANNA

Table 1

GAAAANCCTTNNCCCCCTTTTTATNAAATAAACCCCCCENNNGGGGNGNGGGGGGGGG  
GGNGGTNATANNNGNANNNGTCTCNTNTTTTNTCCTTTAATCCNANAAATAAACTT  
GA  
CNTTCGCTTGNGCTTNGGNNGGTTTCGGGCTGCGGCGAAGCCGGTATTCAANCTCACTCA  
AAGGGCGGNTAATACCN

## Sequence 131

CCGCGGTGGCGGCCGCCCGGGCAGGTACCTATCTGCAGAACGGTCATTAGCAGTTTTTCC  
AAACAAGCGACTTTTAGCAAATTAACCGTTAATTTAATGAGATTCAAAAGTTAATAGC  
C  
ATTCTTAACGTTTTATAATTAGAAGCTGTTATATAATTAGAGCTGGACACCCACATGGA  
G  
AAACTAATTTGACTGTGCTGCATTTGACTTCACTTTGGTAACAGGAAGCACTTTTTAGT  
C  
TGTAGACCCTTGGGAGTTGTAGGGAGTTAAAGCTGATCATTATATACTATTATATACTT  
A  
GGGATACAACCCAAGGGCAACCCCTGGCCTTTATGAAAACCTGGAGTGAGTTATTATTTCT  
CTGGTAATACAATTCTCTGCCAGCCAGTTGCTGCATCAAAACAGTTCTGATACACACACC  
TAAAGTCACCACTTCCTCATTCTGGTCCCCAATAACCCTATAAGCCTCTCCCTTGGAGGT  
GACCTCTGCCCTGTGAAGGGTTGGGCTC

## Sequence 132

CGCGGTGGCGGCCGAACCGTGGTGGCCGTGATCGTGCCGTTGGCGGACGGAACCTTGAAG  
ATGTTCTGGGCGGCCAGCACAAATCGCCGCCTTGCCGACGATGACATTGTTGGCCTTCAGC  
CCGTCAATATCGCCCTTGATGTCGATGTTCTGGCTCTCCTCATCATGGCTCAGCGCAATG  
GCGGCGTTGCGCTTGCCGGTGCCTCCACGAGGAACAGGGCTGCGGCCGTGACACATCG  
CTGGACGCGAGGGTCAGGTTGCCCTGAAGCAGCCCCCTTCTTGCTCTGGGTGACATCACCG  
CGCAGCCGCGTGCCGCGCGCAATGAACTGGATATTGCTCAGGCGTTTTTCGTCTTGTGC  
AGGGCAAGTTCGCTGGCAAGATCGGCCCGCACGCCGTGAGGAACGCCAGACCG

## Sequence 133

CGGTGGCGGCCGAGGTACGATAATTCATGCCAATTTCTTTGGGAATACCTGTTTCTGATA  
TAATAGGTTACAAAGCAAAATTGAGATGATTTTAAAATGCCATGCAGTTATTTTTTCT  
G  
AATAACATAAATTTTAAACAGAGACCTGAAAAAACCCCAAAAGTATTAACCTTTAAATA  
CATAAACTCAATAGAAATAATTTAACTGCCCTTCTCTTCAACAAGAGGCAATCAGAAGGCAG  
GACTATAGTTTTCTGTGTTTCTTTCCACAGGAGAGATAATTACATTTCTAGAGACCCA  
T  
AGAAACAATTCCATAGTTTTAATTC

## Sequence 134

TNGACTCCCGCGGTGGCGGCCGCCAAGTGTGGGATTACAGGCATGAGCCACCACGACCG  
GCCCTGGGATTCTATTGGATGCAGCCAATTTCTTTGTCAAGATTGGCTCCATGCTGTT  
AT  
TTAATCAGGTGTTTCTACTGTGTAGACAAACCTAACAGCTCTCCATCTTAAAAAGGAG  
TGAGGAATTGAGCTGGACAGAGATGTGCATTCCAAATTTTCTTTCCCTTTCATAAAGA  
C  
TTGATCGTCTTATTTATCTGGATTGGCCATACACAGTAATCTCACTAGCTGACAGTTGC  
T  
TCCCGCGTACCT

## Sequence 135

TTGAGCTCCCGCGGTGGCGGCCGAGGTACCTCTCCTGCAGGGCCCTCCATTAGGGTCT  
TCCTGGAAAACCCCTGGAGGAAGCGCTCCTGTTGCAGTCGGAGTGAACACCCGCTTGT  
TTAACCACAGCAGGGGGATTCTTTCTGGAGAGTCCATGTAGTCATCATCTCTTTGACC  
TCTGCATTTTCCCCAGAAAGGCGAGCATGTTACTTGTATCTTGGGATCCGAATGACAA

Table 1

ACTCCACCAGATGTAAAATCACTTTCTAAACAACATTTTGACAGACTGCTCCACAAGTCA  
TCATTCTTAGCATTTCTATAGCTGAACTTCTTTAAGTACCTGCC  
CG  
Sequence 136  
AGCTNCCGCGGTGGCGGCCGAGGTACTTAAAAGTATATCANGGGCAGTTTCATGCCACGG  
GAGCCAGGGAAGGCACCCAAGGAAGTGATGGAAGAGTAGAAGTTCACCAGGTGCAGCTCA  
GGAAAGGGCTCAGCAAATTTCTCTGTAACAGGATGCAGACCCCGCGTCCTGCCCG  
Sequence 137  
GCCGAGGTACTAAATTTAGCAACTTTATTCATGAGGAACACCAGTCCAATGGTGGTGCTC  
TTGTCCCTTCATGCTTACATGGATGAACTCTCATTTTTGTCTCCAATGGAGATGGAGAG  
AT  
TTTCTGAGGAGTTTCTTGCTTTGACATTCAGTGAAAATGAGAAAAATGCTGCTTACTAT  
G  
CTTTAGCAATAGTGCATGGAGCGGCTGCTTATCTCCCAGACTTCTTGGACTACTTTGC  
TT  
TAATTTCCCCAACACTCCAGTGAAAAATGGGAAATTCCTGGGCAAGAAAGATTTTTGAACC  
ACCCCCCATTTTAAATTTTTNACCTCAGGGGAANNAGGGACNATCCTGGNTNGGGGNCC  
CNCACCGNGGGGGNTCCNTTTTGGGGGAAAAAANATNTTTNTTGTGGNNCNAANAAA  
AAAAAAAAANNGGGGGNTTTNTTTTCCCNCCNTTTTTTTNTNTANAAAAAAA  
C  
CCNCTTTTTTTNAAAAATTTT  
Sequence 138  
TNCCGCGGTGGCGGCCGAGGTACTCGGGAGGCTGAGACAGGACAATTGCTTGAACCTAGG  
AGGTAGAGGTTGCAGTAAGCCAAGATCGTGCTACTACACTCCAGCCTGGGTGACAGAGTA  
AGACTCCATCTCAAAAAAAAAAAGAAAAAATTGACTTTGGAACCTCAGATTACATATCAG  
TTTGATACATGCTAAACAGAGAAATGTCCTCAAATTCAGTTACTAAAAATTACTGAT  
A  
TCTCCATGATTAGAACCACACTGTGGTTGTGTGTGTAGTCAAAGGAGGAGAATTTTAAT  
GCTATATAAGCATAACTGATAACTGCTATTACAAATAAATATTCCACAAATTTGGAAAG  
T  
TATTAGAGGAAGAATTTTTTTTCCCTTGTAATTTCCAGGTGTTTATATTAGTTGGGCCAT  
A  
GTGAAAATTACATGGAGGAAAGAAAAATAGGGAAAAATAAGTCACAGAAAAAGAAAA  
Sequence 139  
TTGGAGCTCCCCGCGGTGGCGGCCGAGCCCAATTCTTGATTTCTTTCCATCCCAAACCT  
TTAAACTCTTGACCTCTGCAATTCAAGTTGTGAACATGAAACTTGTCTATCACCAGCCT  
C  
TTCTCTGCATTCTCTTTCCCTCCTTGTTATGCTAAACTTGGATGGCCTCTGAAGATAC  
T  
GCTCTTCACCCCTCTGAAGGGGGCTCCTCANGGGAAGGTACC  
T  
Sequence 140  
TCCCCGCGGTGGCGGCCGCTGTGAAACAATGCTCATAGCTCTTGAAACGACAGCGATGTT  
TCCGTAACGGCATCTTAGCACGAAAAAGCTCCACGGTCTCATTCCACAGCCTGGTAGCTC  
GTACC  
T  
Sequence 141  
TNCCGCGGTGGCGGCCGAGCCCATTTCTTGATTTCTTTCNTCCCAAACCTTTTAAACTC  
TT  
GACCTCTGCAATTCAAGTTGTGAACATGAAACTTGTCTATCACCAGCCCCCTTCTCTGCAT  
TCTCTTTCCCCCTTGTATGCTAAACTTGGATGGCCTCTGAAGATACTGCTCTTCA  
CC

Table 1

CCTCTGAAGGGGGCTCCTCAGGGGAAGGTACCT

Sequence 142

NGGTTGCGCTCACTGCCGNTTTTTCCAAGTCAGGGAAAACCTTNGCNGGCCCNNTTTNG  
TTTTAANANAANNTGNGCCNCCCCNCGGGGGGGGGGGNNGNNTTTGNATNTNTTGGGG  
CCNNTTTTTCCCTTTTCCNNNAAAAAAAAAAANCNCNNGGCCCCCNGGNNTTTTGGGG  
GGGNGGGGGGGG

Sequence 143

NNGACCTAACCTNACATTTAAATNGCGGTGGCGGCTTAAGTGGCCCGCTTTTCCAAGTCC  
GGGAAAAACCTNTTCCNNGCCCAANCTTTGTANTAAANGAAATCCGGCCCAACCNCNCC  
GGGGNGAAGGGNGGGTTTTTNGCNATTATTGGGGCNCCTTTTCCCGTTTNTTTGNTTNNN  
NNNANACCCCTTNNGCCNCNNGGGGGGATTGGGGGGGGGGGGGGGG

Sequence 144

GAGTCCCCGCGGTGGCGGCCGTTGCCCTTACATCTCTCATTGGAACGTGACACGGTAT  
TAAATAACGGCATATGAAAGCTTAAAGTCATCAATACAATCACTGGGTACTTTGATT  
ACCCAAACCAGGCACTTTCCTAAACTCCCACTTCTTTACTTCTGCGGTCTCCTTTCT  
T

TATCCCCCGGTACCTGCCC

G

Sequence 145

ACTCCCCGCGGTGGCGGCCGAGGTACCGAGCTCCNGGCTGTGGAATGAGACCGTGGAGCT  
TTTCGTGCTAAGATGCCGTTACGGAAACATCGCTGTCGTTCAAGAGCTATGAGCATTG  
TTTACA

Sequence 146

CTCCCCGCGGTGGCGGCCGTTATGCTTAGCCNGTTTATTCTTTATTTTTTACTGGAG

TC

ATTGCCAGTGATGGAAACGGTGTTTGCTTCTCTTTCAGTCAAGATCTGCACAAAGTATAG  
CATTAGGTGGTATTTATTGTTTATATTATGAGTTCTACATTCATCTTCCAGCACTCTGA  
AGTTATCAGCAAGTTCTCAGTCAGTTCAAGGCATTGGATTCTGCTTGATTTCTTTTTAA

T

TCATTGTTTTTGACCCCTTTGAGAGTTTTAATAGAGAGGAGTCTGGAAGGCAGAGATCTC  
CACCACCTAACCGTGAGAAATTTGGAACCTAAGGACTTGCAGTGGTCCCCAAGTTAACAGG  
GGATATACTTCTGCAATTTCTCTGNTCTTTCTTGCC

Sequence 147

TGAGTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCCAAGGTGGGCATTTTTTAAAAA  
ACCCATGGAAATAAATGCTACTTCTTGTTAGTGTTGTTGAAAATAAACAAAGAAAATGC  
AAACAAAACAAAACCATGGTCCATTCAAGCTCAAGAGTATTTAACCAATGCTCTGTTGC  
CTCTTAAAGGATTGGTAGCTATTTCCCATCTACAAATACATGACAATTAAGCCCA  
ATTCTTTAAACTATCTGGAATTAGGTCAAAATTATCTAATTTTTTCTGATTTAATTAT  
GGATTACCGTAATCCAATAGTTGGCAACATTATAAAACCCTAACTTTACCTCATTGGTT

T

GGCTATACCAAGGTCTCATGGACTCTTGGACATAACCACCATTCTTTCCTNCCAACACCC  
CGNGTACTTCAGAGTAAAACCCGGGAGCCTTCATGATAACCATGAAGGCCCGGAAGCTT  
CTGGCTTCCAAGGCTTCTNTNGGCCTNACCTTCCGGTGGTTCCTTTCT

Sequence 148

GGGTGGCGGCCGAGGTACCTNTGTGCGCGGTGGNCGAAAAGCACCTGGGTGGGTGCAG  
ACTGCGGAGCNGGGCCCTACCGTGTGCGCAGAAAGAGGAGGCGCTGGACTTATCCTACCT  
TAAGTTGAAGCAGACCAGCAATTGTTGTGACCTACAATCTCCACACCCATCTTACTCTG  
AGCCAAGGAAGTGTCTGTTCTTGTGCTGAGTTTNNAGGGGCCCTTCAGCTNNGGGAAATCC  
CNAAGA

Sequence 149

Table 1

AGCTCCCCGCGGTGGCGGCCGAGGTACCTTCCCCTGAGGAGCCCCCTTCAGAGGGGTGAA  
GAGCAGTATCTTCAGAGGCCATCCAAGTTTTAGCATAACAAGGAGGGAAGAGAATGCAG  
AGAAGAGGCTGGTGATAGACAAGTTTCATGTTCACAACTTGAATTGCAGAGGTCAAGAGT  
TTAAAGAGTTTGGGATGGAAAGAAATCAAGAATTGGGCT

Sequence 150

CNCCGCGGTGGCGGCCGCTGTGAAACAATGCTCATTGCTCTTGAAACGACAGCGATGTTT  
CCGTAACGGCATCTTAGCACGAAAAAGCTCCACGGTCTCATTCCACAGCCTGGTAGCTCG  
GTACCTCGGCCGCTCTAGAACTAGT

Sequence 151

CCGCGGTGGCGGCCGCCGCGGCAGGTACTTTTTTTTTTTTTTTTTTTGTTTTGTTT  
T

TTTCTGTCCCCTCTGAGCCATGGAAGATACTGGAGTTAACAAAAATTTATAAACTAAAG  
AAAGCAACTTTATAATCTAAAAGAAAGCAACTTTCCCTCCTGTCTTTGAATTCTTATTC  
CTGAAAGAAATGGATAATGAATCAGGAGATGAGCAAAAACGTATCTTTACAAAGCTCTAG  
CTTCCAAAAGCCTCTAAACTCAAACGAAACCTTTTTAAAGTAGTTTTGTAAAGCTCA

A

GGTATGCCATTTCCAGAAAGTTGCAGATGAGCACCATTGGGCATTACCCAAATTCTGTCA  
CACATTGAGCAATGAAATTCAGGGAATTGGGACAATGACCTCTTGGGCATATGAAAGAAT  
TAAAAGAGGGCTAGGGCTTAGGGAGGGGGGATCTAATCGGGAGGGGATGTTCTGTCCNA  
GCCCTTCCTTCCTTTCT

Sequence 152

TNCCGCGGTGGCGGCCGAGGTACNCCTAAAAAGTACTGCAGCAGAGAAGAAAACATTGG  
ACAAAGAAGAAAGGCGACAGAAGGCTAGAGAGAGGCAGCAGAAATTGCTTGCGGAGTTTG  
CTTCACGACAGAAAGGCTTTATGGAACTGCAATGGATGTTGATTCTCCTGAGAATGATA  
TTCCTATGGAGATCACACGGCAGAACACAGGTTTCCGAGGCAGTATATGACTGTGTTA  
TTTGTGGACAGAGTGGCCCCTCCTCTGAAGATCGACCTACTGGATTAGTTGTACCTGCCC  
G

Sequence 153

GCGGTGGCGGCCGAGGTACACCTGCAACTGTGCGAATGGTCCTGTTGCCTCCTGCATTTT  
GGCCTCTGTTCTATAAAGGAAGAGTAAAGATGGAGCTCCTCCTGCCTCCATCACGAAAGC  
ACATATCATCTGTCCCTTTGGATTTTACTTCCAGGACGCGTGTCTGCCCCAGCGTGTG  
TT  
GCCTTATGGTGGCGGCAGAGCCTCAGCTATCTGCCTGGGAAGTCGGATGTCCTTGGAGAG  
AATTTGGAATGCAGATAATTTTTCTTATTTCTTGAGAGCTTACTTTAATCAGCATGACA

C

TACCTAAACACTGAAGATGGCCTTATATTAGTAAGATTTGCACAAAATTAAGTATACCT  
A

TGCAAACTATTACTTTGGTTTTTAGGAGTTTGATCAGATGAAGAAGTNATGGTATCACA

T

ATATATGTAAGAAGGCCAACCCATCATTATTTTTGNAAGTGNTTTTTATTAAAAACC

Sequence 154

CNCCGCGGTGGCGTNCGGCCCCCGCCTTTCTGCGGCTTTCAGCTGCGCGTTTCAGGTGCG  
TCAATGAGGTGCTCGGCATCTTCGAGACCGATGGACAGGCGGATCGTGCCCTGGCTGATG  
CCTGCGCCCCGCCAGCGCTTCGTCGCTCATGCGGAAATGCTGTGGTGCTGGCCGGGTGGAT  
CACCAGGCTGCGGCAATCGCCACGTTGGCCAGGTGGCTGAAGACCTTGAGGGTTTCAAT  
GAACCTCTTGCCCTGCTCGCGGTTGCCCTTGAGGTCAAAGCT

Sequence 155

CGCGGTGGCGGCCGCCGCGGCGGTTATAAAAAACGAACATGTATAAACGCTTACGCAAACC  
CTTTTTAATGTTCTGAAGTCAGTCTTTGTAAGTGAAATCGCTGGAGACTAGAAAGTATG

A

AATGGCAGTCTACCTGGGCAACCTACAAAAAATTTAGCTTGAAAAGACTTCAGTCTCCGC

Table 1

TCCCCTGTTGATCTCATGGAGTGGGGAATGGGAATTGAACCAGAACTGGAAAATTATTTA  
GGAAAGTTTGTTAACTACTCTTTGTTGATCTCATGGAGTGGGGAATGGGAATTGAACCAG  
AACTGGAAAATTATTTGGGAAAGTTTATTAAC

Sequence 156

CTGGCGGCCGCCGNNCTGGTNCTTNCATCTNNGGCTNCCTATANGCTNTCTTTTTTACAG  
ACGGCCATGAAATGCAATCCAGCTGAAGTATTATCATCTTGTAGCATTTCAAAAGGAACC  
GTCGAAGTCATCCAAAGGATGGGAACCACAATGTTCTTGTGTTCTTGGGTTTCTTA  
AT

GATTTCTGAATCATCATTATTAATTATGGAATTCTCTGGTCGAAAAGTCACATTTGGTT  
T

TCTCCTCAGTTTTCTCACATCTTTTTCTTGCAGCTCTTCTCAGCTCTTCTTCTTGCCT  
TTTTTACTGGCCTTTCCTTGTCTTACTTCAGGTGGTCTATTTTGACCTTTAAGAAGG  
T

TGAAGGGTGGTNCAAGCATCACCTTGGTTCNAATAAAATTAATGGTGTAGGTTTCTGGT  
GGCCTTNGTTTAAACGCAAATGGGGGTTTTNANGGGGGGANAAGGTTGGGGT

Sequence 157

CCGCGGTGGCGGCCGAGAAATGTCGCCAACTGCCGTCTTCCCTCCTCGGCCGCTGCGAC  
AAACACCCCAAAAATGGCGGCATGCGCCGTGCCCTAGAATCCCCCGAGTCGCCTCTCC  
CCGCGTACCT

Sequence 158

CCCAGGGCCAGCTACTCGAAGAACAGCCAATGGATTGGAACGTCCTAGGACAGATGCCA  
CGGCTTTGACCCAGGCTGGGGGTGCACAGGATCTCACTGGNGNTAGTTGGTCGGATGGGA  
AAGCCCATGGGTCCACCAGGATGAGGTGTTAACTNTATCAGGGNACCTTGCCCCGTCT  
AGAA

Sequence 159

CCCCGCGGTGGCGGCCGCCCGGGCAGGTACACAGGACCAATGCTGCCCATCCCATGGAAT  
TTACAAACATTCTACAGCGCAAAAGGCTCCAGACTTTGATGTCAGTGGATGATTCTGTGG  
AGAGGCTGTATAACATGCTCGTGGAGACGGGGGAGCTGGAGAATACTTACATCATTTACA  
CCGCCGACCATGGTTACCATATTGGGCAGTTTGGACTGGTCAAGGGGAAATCCATGCCAT  
ATGACTTTGATATTCGTGTGCCTTTTTTTATTCTGGTCCAAGTGTAAGAACAGGATCA  
A

TAGTCCACAGATCGTTCTCAACATTGACTTGGCCCCCACGATCCTGGATATTGCTGGGC  
TCGACACACCTCCTGATGTGGACGGCAAGTCTGTCTCAAACCTTCTGGACCCAGAAAAGC  
CAGGTAACAGGTTTCGAACAAACAAGAAGGCC

Sequence 160

TGGCGGCCGCCCGGGCAGGTACACAGGACCAATGCTGCCCATCCACATGGAATTTACAAA  
CATTCTACAGCGCAAAAGGCTCCAGACTTTGATGTCAGTGGATGATTCTGTGGAGAGGCT  
GTATAACATGCTCGTGGAGACGGGGGAGCTGGAGAATACTTACATCATTTACACCGCCGA  
CCATGGTTACCATATTGGGCAGTTTGGACTGGTCAAGGGGAAATCCATGCCATATGACTT  
TGATATTCTGTGTGCCTTTTTTTATTCTGGTCCAAGTGTAAGAACAGGATCAATAGTC  
CC

ACAGATCGTTCTCAACATTGACTTGGCCCCCACGATCCTGGATATTGCTGGGCTCGACAC  
ACCTCCTGATGTGGACGGCAAGTCTGTCTCAAACCTTCTGGACCCAGAAAAGCCAGGTAA  
CAGGTTTCGAACAAACAAGAAGGCCAAAA

Sequence 161

CGAGGTACCATCCTATTAATACTAACTTCTGCTTCTACATACTGTAGACCTTTCTGGAT  
G

ATAGAAATCAATGCAGCGGGTGGGACGAGGGCACCATTATATTGGACTGACTGATATGG  
CTTTCTATACCAAAGGTAAATGCTGAATGAGAAAATCCTGACTCTTGCAAGTATCTATA  
T

ACCAAGAAGTTGACCTCATCACTGCTTATACTCATCTTTATTCCCACTTAAACCATGAG



Table 1

G  
TCCCAACACAGGATATAACCCATTGGGCAGTGCATTGATGTGGGGGATGTGCAACTGANT  
ATNCCGGTCACCCGCCAATCACAAGTTTGCTGGTGTGATGCTGGAAACGGTGGCCTCCA  
ACGCCGCTCCCCCTCCCGGAA  
Sequence 162  
GGCGGCCGAGGTACCTGGCCTGCTGGCATAGTTCTTTGACCCGTTTCATATTTGGGCAAGT  
GATTTGACTGTTGGATATTCTTGCTGGATTCTCTCTTACGTAGAAATTTGCCTCTT  
T  
CCACTAGGAATGTATCACGCCAAATTTTGGCCTTCTTGTTTGTTCGAAACCTGTTACCT  
G  
GCTTTTCTGGGTCCAGAAGTTTGAGGACAGACTTGCCGTCCACATCAGGAGGTGTGTCGA  
GCCCAGCAATATCCAGGATCGTGGGGGCCAAGTCAATGTTGAGAACGATCTGTGGGACTA  
TTGATCCTGGTTCTACACTTGGACCACGAATAAAAAAGGCACACGAATATCAAAGTCAT  
ATGGCATGGATTTCCCCTTGACCAGTCCAAACTGCCCAATATGGTAACCATGGTCGGCGG  
TGTA  
Sequence 163  
GGGGCCNCGCGTCCGGGTGGCTCTATGTAGTTCTAATTTGCATTTCTCTAATGACTAACG  
ATGTTAAACATATTTTTATGTACTTGTTCATGTACTTGTGATATGTCTATTCAATTCC  
TTTACCATTATTTATGGAGCTGTTTTTTATTATTGAGTTGTAGGATTTCTTTATATATG  
CTGCATACCAGGCCTTGTATATACATGCTTTCGAATGTACATTGTCTTAAATCTGT  
G  
GCTTGCCTGTTCAATTCATTAGTGGTGTGTTTGTAAAGCAGTTTTTAATTTTGATGAAGT  
G  
TAACTTATTCATTTTTTATTATGGTTATTGCTTTATGTTTCAGGTCCCAAATTTTGCCTT  
CTCACAAATCACAAACATTATCCTATGTTTTCTTCAAAATTATATGGTTTTATGTATT  
TTCAATCTCAAAATATTCTCTAATTTTTTGTCTGATTTATTTCTAAAGAAATTTGAGGGA  
TTTGCTATAATGG  
Sequence 164  
CCCCGCGTGGCGGCCGCCGGGGCAGGTTATTTAATTTCTTAGTGTCTCAATTTCTCTCC  
TCTATAAAACAGAGATAATAGTATTTAGCCCAGAGGGTTGTGGTGAAGTGTGAATCATT  
CTCCATGTAAACACATAGGACAGGCTGGGCATGGTGGTGGGCACCTGTAATCCCAGTTA  
CTTGAGAGGCTGAGACAGGAGAATCGCTTGAACCCGGGAGACGGAGGTTGCAGTGAGCCG  
AGATAGTGCCACTGCACTCCAGCCTGAGTGACAAGAGTGAGAGTCCATCTCAAAAAAAAAA  
AAAAAAAAAAAAAAAAAGTACCT  
Sequence 165  
NCCTGGCATCAGCNATTAGNAATCAACCTGTTAATCCAAGGTCTTTAGAAAACTTGAAA  
TTATTCCTGCAAGCCAATTTTGTCCACGTGTTGAGATCATTGCTACAATGAAAAAGAAGG  
GTGAGGAAAGAAGATGTCTGAATCCAAGAATCCGAAGGGCCGTCAAGAAATTTTACCTGA  
AAGGCAGGTTAGGCAAGGGAAGGGGTCTAAAAAGATCTCCCTTAAAAACCAGGAGGGG  
GGAAGCCAAAAATCCGATGCCAAGTGCTTTCCCAAAGGGGATTGGGGACCACCACCAAGA  
GGGCCTGGCCCTTCTTCCCATCACTTTCCCTTACCATTGGGGAGGTAATTATTGTCAA  
GGCCATTAAATTTGGTTTCTTTAAGTTTTTGGCAGGTTTACCGCCTTAAAAAGGGTG  
GA  
CCCAATGGATTGGGTCCACCCAAATCNAGGCTTGCTTACTTACTTCCCTGGTAAGGGA  
A  
Sequence 166  
GTGGCGNCCGTNCGGNCAGGTACTTGCTCAGCCTTTCCAGGCCCTNTGATGAGCTCTCT  
AATCAGCAGGACCAAGGTGTGAAGTGGGAATGAACATGGATCCATCCCATTTGGATGGAGA  
AGAAAGGTGGACAGCCTGTTCTCTCTCATGTCAGCCTAGGGCTGGGAACAGTTTGTGAG  
GACTTATCTGTTGTACCT

Table 1

## Sequence 167

GCNNGCCGCCCCGGGCAGGTACGCGGGAATGGGCACNNTGNAGCGCAAGTAGGTCTACAAG  
ACGCTACTTCCCCTATCATAGAAGAGCTTATCACCTTTCATGATCACGCCCTNNGGNATC  
ATTNTCCTTATCTGCTTCCTAGTCCTGGTATGCCCTTTTCTNAACCACTCACAAACCA  
A  
AAACTTAACTAAATAACTTAACAATCCTNAGAACGCCTCAAGGNAAANTAAGAAAACCCG  
TCNTGAAACTTATTCCTGCCCGCCCATCATCCCTTAGNTCCCTCAATTCTGGNCCCT  
CN  
CCAANCCCCCTACCGCCAATCCCTTTTTACAATAAAACAGGACCGAAGGGTCCAAACNGAA  
TCCCCTCCCNTTACCCATTCAAAAAATCAAATTNNGGCCACCCAAATTGGANNACCTT  
GAAACCCCTAACCGAAGTTACCCCTTCGGGCCCGCTTCTTAAGAACTAAGGNGGGAATCC  
CCCCNNGGGCCTGGNAANGGAAATTCGGATAATCAAAGCCTTAATTCCGAATANCCCG  
GTCCGAACCCCTCGGAGGGGGGGGGGGCCCCCGGGGTACCCCCANGCTTTTGGGTTTC  
CTTTTA

A

## Sequence 168

ATNTTCAGGAGACGCTCNGTAGCCCTCGCGCTNTATCCTNCGGNACAGTTCTGCGGAAGA  
AGTGGCTCACGCCTTCCAGAGCCACATCATCGCGGNCGAAAGNGAAGCCCAGAGAGAGGT  
AGGTGTAGGAGGCCTGCAGGTACCTCGGCCGCTCTAAGAACAANGNGGATCCCCCGGGC  
TGCAAGGGAATTCCTTANCAAAGCANTANTNAAACCCGTCCGNCCNNNCAGGGGGGGGG  
CCCCGNTACCCNAANCTTTTGNNNCCCNATAGAGAAGGGNGAAAAAATNANGCCCNCC  
TNGGGGCAGNAAAAAATGGGGACAATAAAGCTNTTNNNCNNGGGGNTNAAAAANTGT  
TAAATCCCCCNACCANNAATTTTNCNCAAACAAAAAATAAAAAANCNCCGNGGANNGAN  
AAAAAANNGGNATAAAACACCCCNNGGGGNGGGTCCCNCAAAGNGGGGGGGGGGACCN  
CCNCCNAAACAATTAATGTGGGGNGGGNGGANANANAATNGCCCTNNTTTTNTANNGNG  
ANNAAAAANNCTTGNGCNGNCCCNACTTCTANNTAAAAAANACCCCCCNCCCN  
CCCGGGGNNAGNGNGGNNNGNTTNACTTTANNGGGCNANNTTTTCCNCCTTATNNA  
AAAAAATAACNNGGCACNNGGAAATTTNNGGGGGGGGGG

## Sequence 169

TTTTGAAGCCCNCTTNCGCGGNGGCGGCCGCCCGGGCAGGTACTTCCACTATTATTGAA  
TGTATTCTGTATTATAATTGTATTTGATTGCCTATCTCCCCTCAACTGCATTATACAT  
TTTCATGGGTGAGCCAATGTCTTTTCACTCTATTTCAAGTGCCCTGCACATTTTCTGGC

A

CATAGTAAGCATCCCATGAGTATCTGATGAATAAATGTATTTCCAAATTCAGGTTCACT

A

TCCTTAATCTGAAAATACAAAATCCGAAATGCCATAAAATTCAAAGCTTTTTGAGGACTG  
ACCTCGTGCTCAAAGGAAATGCTCATTGGAGCATTTTGGACTTCAGATTTTCAAGATTAGG  
GATATTCAACCCGTAAGAATAGTGCCAATATTCAAAATTCAAAAAGTCTGAAATCCAA  
AACACTTCTGGTCCCAGGTATTTTGGATAAGGGATACTCAACCTGTACCGTAAAATACAT  
GCATACTTTCGATAGCACATGTGAAGGTATCTCTCTAAAATTGACCTCATTGGTTTCGT

T

CTCAAGCAAACCTGACCTGGGGCCACTCAACATGGCTTTTATCGNGCCTGATGTTAATGCA  
TGTCTCTTTTACAATA

## Sequence 170

AAGTCTACATTTTATGTAGTGGTTAATGTTTGCTGTTTCATTAGGATGGTTTCACAGTTA

C

CATACAAATGTAGAAGCAACAGGTCCAAAAAGTAGGGCATGATTTTCTCCATGTAATCCA  
GGGAGAAAAACAAGCCATGACCATTGTTGGTTGGGAGACTGAAGGTGATTGAAGGTTCCAC  
ATCATCCTCACCAACTTTTGGGCCATAATTCACCCAACCTTTGGTGGAGCCTGAAAAAA  
ATCTGGGCAGAAATGTAGGACTTCTTTATTTGTTTAAAGGGGTAACACAGAGTGCCCTTA  
TGAAGGAGTTGGAGATCCTGCAAGGAAGAGAAGGAGTGAAGGAGAGATCAAGAGAGAGAA

Table 1

ACAATGAGGAACATTTTCATTTGACCCAACATCCTTTAGGAGCATAAATGTTGACACTAAG  
TTATCCCTTTTGTGCTAAATGGACAGTATTGGCAAAATGATCCACAACCTTCTTATTCT

C

TGGCTCTATATTGCTTTGAAACACTT

Sequence 171

GGCGGCCGCCGGAGCGGCGCGGAGCATGATGGAAGTCGTAGTAGGAAATGGCGTCGTGGC  
ATTGAGGGGGGCATCCCTCCTAGAACCTCCAGGAAAAGCTCGCGGAAGACGAGGTTCTGCG  
GAGAGAGAGGCTCCAAGCAGTCTGGGAAGTGTAGTCCAGTTGGCTTAGCAGTAGTTTCGT  
TGGGGGGGAGCCCGAGGTTCCGGGAAGGGGCTAGGCCGGCTTGAAAAGAGATTATGACTG  
TACCTCGGCCGTCGAGCGGCCGCCCGGGCAGGTACAACCTTTATACAACCTCAGGAGATTA  
AAAAAAATCTCCACAAGAAGAAGCAACTCANCAGGCCCTGGCATTAAACATTTCCAG  
AATAAACAGATATGCATTGCATTAAAGGTAATTTTCAAATATTTAAGTTACACCAAGATT  
TCCCTCCAATATGTGCCTTTCTCAAACCAATGCAACTAATTCATTGCTAATACTGGGG  
CA

TGAATTTTTTGGCAAATGTTTATGGTTTTACTTTCTTCATTAATCAAAAAANT

Sequence 172

CGGGTACANATTTAAGGTAGATGGACTCAGGGTAAGGATAGCTACAGCTGTGTGGGGCTG  
AAGGTCTGTGGCACTGAGCTACTGGGGAAGGAGGGCTCTGTTTTCATNGTGACACACTGA  
GTTAATAAAGCACTTACTGAGGGAGCCAGAGCCCAAACCTCTAAATGTGCTGTAGAAAAAG  
GGCCAAGTCATTGACTGCACCACTCCTTCAGCCAGAGGTAGAAAGGATTTACTCTTCAGC  
CATCTGGTAGAGCCCCAAGAACAAGTTACATGTGGACAAAGGGAGGGAGAGGTATCATGG  
TGATTAATAAATNCAAACAAGCTGAATGATAAGNACCCAGGATGGAATACAGTCTGAG  
AAAGGCCTGGGCAAAG

Sequence 173

GGGGCCGGGCCCGCTAGGGGTTACCCNCCGNGGGTTATTAAGGGGTTGGNAAAAA  
AAACCACCTGGCNCANTTTCCAACCCAAANGGTNCAAANGGGGAAACCCCCCAANGGGGG  
CCCAGGCCTTGGGGAAAAGTTGTTTGGGGNAAGCCCACCAAACCAATTGGNCTTGGTNGG  
GGAGGCCAACCCACCAATGGNCCTTGTGNGTAAGAAATNTGGGCNAGGGNGGTTGGTTC  
CTTGNAAGGGTATTTGGGTGGTTNCGTTAANTTTGGGGAAAAGGAAATTTTTTAAGG  
GTTATTTGTTAAGAAAGCCAAAGGGTTTTGGAAAAAATGGGGAAATTTGGGAAGAACCTG  
GCCAATTGGGGTTGGGGCCCATTAANAATTTGGGGAAAGGNAAAAAATTTGGCCCCTTG  
GGTNAAGNCCANTCCTTAAGGTTCTTAACCTTTTGAAAANGGGGAAAAGGTTGGGGGA  
AGGNAACCCANTTAAAAGGGGGNANGGGANGGACCCAAAAAAGGGGGGGTNT  
TTTGGTTNGNCCCCCAATTAAAAAAGGGTTAATTTTTTTTTTTTCCAAAAAAG  
G

GAACCCANCCCCCAAAAAGGGAAATTGGGTTGGGGGGTTNAAAAAATTTGGGGAAAAA  
AAAAAATTTTTAANTTTTTAAGGGTTTTTCCAACCTTTTTTCCCCCTTGGCCTTGGG

C

CCCAANTTGGGAAAAAANCCTTTTTTTGGGCCCNTTTTTAAAAAGGNAAAAAGGGGGG  
TNGGGCCCTTGGGGGNAANTTTTTNCCCCAAAAAGGGGGGTTTTTTTTGGGTTNAAAAA  
AAGGGGGGNCCAANTTTCNTTCCGGGGGTTAAAAAAGGGAACCCCTTGGGCTTTTTT  
TT

Sequence 174

GGCGAGCGGCCCGCGGGCAGGTACCCTAGGGTGTTGTTTAAAGGACTTGATAACCAGCTT  
GAAGAGGTTCTACTGACCAGAAATGGAATGAAATTTAAGCATCAATAAGGGTAATAACT  
GCAAGAGACTGACATCCACTATGGTTTAAATCCATGAGGTCACAATGATACTTAATTTT  
T  
CATTATTCTGAAAACAGTAAATAAAGGCTAAGATTCAACAAGCATTTATCCAGCCTTTT  
CTCAATGAAATATATCNTAAGAGAACCGAATAGTTAACATAGAGACATGGCCGGGCAAGG  
TGGCTCTCGCCTGTAATCCCAACACTTTGGGAGGCCCGAGGTGGGAAGATTGCTTGAGCC

Table 1

CAAGAGTTCTAGACCAGNCTGGACAACATGGTGAAACCCTGTGCCTACAAAAAAAAAAAA  
AACAAAAAAAAAGGTCCCC

Sequence 175

CAGGACCAAAACCTGGGGATTAAGCTAAGAAGTCTGGTGGAGAGACTCTGTGGACGTAAA  
GAAGGGAATGAACACAGAGAACTTTACGCCAGATTCCTGATNGTCACCTGAACAAGAAA  
AGTCAAACTGGAGTGAAACCATGCAATGCAGCGTGTGTGGGAAAGTCTTCCTCCCGTCA  
TTCATTCTGGACAGGCACATGAGAGCTTCATGCTGGACACAAACCATCTGAGTGTGGT  
GGGGAATGGANAGAGGACNCCCCCGNAAACAGAAACCAACCATGGGGAAAAGCCTTCAT  
TTCCCCCAGTAGTNGGTGCACCGGCTCACCAGTTAACNACCAACTTNGAAAGGAGACCTT  
TATGAATTGCAAGGGTGGTGCAGGGGAAAGCCCTTTAAATTCTCCCA

Sequence 176

NCNGGNCAGGACGCGGGGGCCGNGAAGAGCTTTCATTGTGGGAAGTCTTTCCTTTCTCG  
TTCCCCGGCCATCTTAGCGGCTGCTGTTTGGTTGGGGGCGTCCAGCTCCTAAGGCAGGA  
AGATGGCGGCGGANAGAAGACNAAAAAGTCNCTCGGAGTCGATCAACTCTAGGCTCCAA  
CTCGNNATGAAAAGTGGGAAGTNCCT

Sequence 177

CCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTATGAATNATTNATTTTCT  
T  
TNTCAGAAAAGGATGCGCCTCCACTTAGCAAGGCTGGGCAGGATGTGGTCTCTGCATCTC  
CCCACAGACAGGGGTGGTTCTAGA

Sequence 178

GGTGGCGGCCGCCGGGCAGGTACCAACCATTTTCACTAGTTCAGGATAGGAATATTCA  
TCAGATTGTCTCTGTAAAAGTGAATCACAAAAATCCACCTGTGTAGGTGTGGGACTGGA  
CAGCTGAGTGACAGGGCCCTGGGAAGAACAGAAACCACTTTTCCTCTTCTCTGAAATA  
TCAGAAGTAAAAATCTACTCTGAGTTATATGTGCATCAATTTTAGACATATTGCTGAT  
T  
TTATTATGAAAATGAAGTGCTAAAGACAAAGGATATTTCCATTCTCTGGACAGGCAGCC  
ACAGACCAGCACTGCTTGACCCATGTGTATACACATGTGTGCTTTGTACCT

Sequence 179

GGTACTCACAGTCACGCAAATTCACAGTCTGCGTGCACGGCTCTCCATTCTTCTTCTGG  
CTTTACAGGTTCCCAGGTCAAGAGCTTCACCCATAATTAAGACCTTCTGAGGATGATCGA  
TAGATAAACACACCTCCTCTGAACCATCCTTGGGCTTCATGGGGTTGGCATTGAGGATCC  
CTACGACAGTCCCCTGCTCCGTCTTCAGAGCGCTTTGTGAAGTCTCTCAAATAAGAACA  
AGGACACACATTGTGTCAGGTACGAAGATCATTAGTTTCCATATGCTGAAGGTTTTTC  
CACTATTACACTCTGTGGCGTAACCTTCTTCAATATAACCCCAAATGTCACCCAATCT  
A  
TTTCTTCCAGCTTCTCTCTGGCCATCTTTTCTTGATCTGAGACAGTCTGATCAGTTTTC  
G  
GCCGCTCTAGAACTAG

Sequence 180

GGCGGCCGAAAACCTGATCAGACTGTCTCAGATCAAGGAAAAGATGGCCAGAGAGAAGCTG  
GAAGAAATACGATTGGGTGACATTTGGGGTTATATTGAAGAAGGTTACGCCACAGAGTGT  
GAATAGTGGA AAAACCTTCAGCATATGGAACTGAATGATCTTCGTGACCTGACACAATG  
TGTGTCCTTGTTCTTATTTGGAGAAGTTCACAAAGCGCTCTGGAAGACGGAGCAGGGGAC  
TGTCGTAGGGATCCTCAATGCCAACCCCATGAAGCCCAAGGATGGTTTCAGAGGAGGTGTG  
TTTATCTATCGATCATCTCAGAAGGTCTTAATTATGGGTGAAGCTCTTGACCTGGGAAC  
CTGTAAAGCCAAGAAGAAGAAT

Sequence 181

GTGGCGGCCGAGGTACTACAGTCACGCTCCTCTGAACCATCCTTGGGCTTCATGGGGTTG  
GCATTGAGGATCCCTACGACAGTCCCCTGCTCCGTCTTCAGAGCGCTTTGTGAAGTCTT

Table 1

CCAAATAAGAACAAGGACACACATTGTGTCAGGTCACGAAGATCATTAGTTTCCATATG  
CTGAAGGTTTTTCCACTATTCACACTCTGTGGCGTAACCTTCTTCAATATAACCCCAA  
T

GTCACCCAATCTATTTCTTCCAGCTTCTCTCTGGCCATCTTTT

Sequence 182

GCGGCCGAGGTACATGGATACGTTCTTCTTCTGGGGGCGGTCTCCAGTCCTTTCTCATGAG  
GGAGCACACTCCTCTGCCTCATTGCAGTGGCCTCAGGGATATGGAATTAAGATCCACCTG  
GTGTGATGAATAAACCCAGACTCTCAGCAACGCAGGAAAAAACAACAACTGGCTGGCG  
ATCTGGAGTAAAGGATCCTCACATCCACGTGAACCAGGAACTCTGTGCCCAAATCGACG  
AAAAAACAACACTGGGAGAGCCGAACATAAAGTCTTTTAGCACGGGTACCTGCCCCG

Sequence 183

TCCCGCGGTGGCGGCCCGAGGTACGCGGGGAGCGGAAAGGGAGACTGTGGGGAAGTAGGA  
GCAACAGCAGGCATGGACCAAGCAGTGAAGGATGTATGAAAAAGATTAGCAGTGTGAAT  
CTTGACAACTTATAAATGACTTCTCACAGATAGAAAAGAAAATGGTAGAAACCAATGGA  
AAGAACAATATACTGGATATTCAGTTGGAAAAAGTAATTGCCTATTAAGAGTAATGCAA  
GCAAAGGAGGTCTCCATTAAAGAAGAATGTGCTACTCTTCATAATATAATAAAGGGCTA  
CAACAGACCATTGAATATCAACAGAATTTGAAAGGTGAAAATGAACAATAAAAAATAAGT  
GCTGATCTTATAAAGAGAAGTTAAAGTCTCATGAACAGGAATATAAGAATAATATTGCC  
AAACTTGTAAAGTGAATGAAAAATCAAAGAGGAGGGATATAAGAAAAGAAATAAGCCAACTT  
TATCAGGGACATGCAGAGAAAAGTTGAATTAAATGAAGAAAAGCCCAAAGAACTTATANA  
GAAAAAGNGATGGGAANTTCANAGGTTAATGCCAAGCTTAGAAGTCAAAAAAAAAAAAA  
AAT

Sequence 184

CCGCGGTGGCGGCCGAGGTACATGGATACGTTCTTCTTCTGGGGGCGGTCTCCAGTCCTTT  
CTCATGAGGGAGCACACTCCTCTGCCTCATTGCAGTGGCCTCAGGGATATGGAATTAAGA  
TCCACCTGGTGTGATGAATAAACCCAGACTCTCAGCAACGCAGGAAAAAACAACAACT  
GGCTGGCGATCTGGAGTAAAGGATCCTCACATCCACGTGAACCAGGAACTCTGTGCCCA  
AATCGACGAAAAAACAACACTGGGAGAGCCGAACATAAAGTCTTTTAGCACGGGTACCTG  
CCCG

Sequence 185

CCGNGCGCCCGGCAGGTACGCGGGGGTGTCCGGCGATGGGCACGGGCATTTCTTCGTTTA  
TAGCTGTCTGTTTGCAATCTGATTGGGAACACTGGGATCATTTTCATCATGCCGACAGTG  
GTGGTAATGGATGTATCCCTTTCCATGACCCGACCTGTGTCTATTGAGGGTCCGAGGAA  
TACCAGCGAAGCACTAAGTAATATGGATGATTATGACAAAACCTGCTTGGAGTCTGCATT  
AGTTGGTGTTTGCAATATCGTTCAGCAAGAATGGGGTGGTGCAATTCTTGCCAGGTTGTC  
CTGGTGACAGACGGNTGTCTGGCATTGNNAGAGGGCCACTGGGACATTCNNTANCCANTC  
AAAATTAACNAAAGTNGAGCACNNGGTTTCCCTACCTTTTCNTTCCCATCAANTNT  
AT

ATACCANGNNGGGCGAATTTGNGGGCCCCNCGCCCCCTNTTCTTGGGACTTTTAAAA  
CNGTTTGTCTTTCCNCTTTGGGGNNGNGCCATTTTATNTTGGGGGNCCCCCTTGGGGA  
ANAANAACCCCCCNCCCCCTTANAAAANNGNCCCCCCCCCGNNGGGGGGNAATTAA  
AAAAAATTTTNNCCCCCCCCCCCCCGGG

Sequence 186

TCCCGCGGTGGCGGCCGAGGTACTCACACGTACCGCAAATTCACAGTCTGCGTGCACGG  
CTCTCCATTCTTCTTCTTGGCTTTACAGGTTCCCAGGTCAAGAGCTTCACCCATAATTA  
A

GACCTTCTGAGGATGATCGATAGATAAACACACCTCCTCTGAACCATCCTTGGGCTTCAT  
GGGGTTGGCATTGAGGATCCCTACGACAGTCCCTGCTCCGTCTTCCAGAGCGCTTTGTG  
AACTTCTCAAATAAGAACAAGGACACACATTGTGTCAGGTCACGAAGATCATTAGTTT  
CCATATGCTGAAGGTTTTTCCACTATTCACACTCTGTGGCGTAACCTTCTTCAATATA

Table I

C  
CCCAAATGTCACCCAATCTATTTCTTCCAGCTTCTCTCTGGCCATCTTTTCTTGATCTG  
A  
GACAGTCTGATCAGTTTTTCGGCCGCTCTAGAAGTAGGTGGATCCCCC  
Sequence 187  
GGCGGGCCGCGGGCAGGTACCAGAGATTCCAGAGAGTGGTCTTTGGAATTTCCCAACTC  
CTTTGCTTCAGTGCCCTGATCTCTGAACTAACAAACCAGAAAGAAGTGGCAGCATGGACT  
TATCATTACAGCACAAAAGCATACTCATGGAATATTTCCCGTAAATCTGCAGAATCGCTA  
CACAGACTTAGTGGCCATCCAGAATAAAAAATGAAATTGATTACCTCAATAAGGTCTTACC  
CTACTACAGCTCCTACTACTGGATTGGGATCCGAAAGAACAATAAGACATGGACATGGGT  
GGGAACCAAAAAGGCTCTCACCAACGAGGCTGAGAAGTGGGCTGATAATGAACCTAAC  
Sequence 188  
TTTGAANCCCACTTNCCGCGGTGGCGGGCCGCGGGCAGGTACTTTTTTTTTTTTTTTT  
TT  
TTTTGTAAGTACAGGTGTCAGATGCATCACAAAAGCAGAAGTGCCCTTTTCTGCTCTTCTC  
TGTGCCATTCTTGTCAATTTTCATGCTGCCTACAGCAACAGCATAATACTGCAAACAGCC  
ATGATGTCAGTCTGAAGTCTCTGTGATTGACAGAGAGGGACAGTCGTAGTCAGAGGTGGC  
TCCTCAGAGAATTCAGAACTCACTCGCTGTCTCCAGGGGCTCATCCCTTGATTGAGGG  
AGGGATGAAATATTCTCTGCATGAGAGAGCAGGGATGGGAAGTGATATAGGTATGTAAGG  
ATGGTCAAGTTACTCTAAATGTAGTTAGACAGGACAGCCAGAATACCCGAGGTCTTGTT  
AGGTCTCTGTAAACAAGCCGTAGAGGGCCAGAAATGTGGTGACAGCGAGACACATTTCTT  
AACTCTTACACTTGTGAAATGAGTAGAAGNGACATTTGGTTTGGAATCCCTCCCC  
A  
Sequence 189  
CCGCGGTGGCGGGCCCGCGGGCAGGTACGCGGGGAAGGAAAGCAGCTGCAAACCTCCCA  
TCTGCAGTGTGTTGTTGTCTCGGCTCCGGCCATCACTGCCACGATTACCCCTGGATGAAT  
TCCTCAGTGGAAATATCAACAAGACTCAGCCCACCTGCACCCAGGTGATTAAGGCTTT  
ATTGCTCACACAAAGCCTGTTTGGTGGTCTCTTACATGGACGCGCGGACATTTGGTGC  
CCTGACTTGGATCAGGGGACCTCCCTTGGGAGATCAATCCCCTGTCTCTCTGCTCTTTC  
TCCGTGAGAAAGATCCACCTACGACCTCTGGTCTCAGACCAACCAGCCCAAGGAACATC  
TCACCAATTTTAATCAGGAATATTCTGTGAAAAAGACTAAGATATCAAGAGAAATTAT  
T  
AGTGACACATTATTAGAAGAGAGCTTCAGATGAAAATAAAGATCAAGAAAAAGACTCTTGC  
TTTGAGAAAGACACAAAGAAATCACATCATTCTTATTGGGATTACTGGGCTAGCCATATG  
CCAGAAAAATGAAACTGGTCCCTTCTTACACCATATACCAAAAGCNGCCCANGATGGNTT  
ACTTNAATGTNAAANCCAAAAC  
Sequence 190  
CGGCCGCGGGCAGGTACCATCGCCGTCCCATTTGCTCACAGGGACTGGGAAGGCGATGCC  
TGGCGGGAGCTGCTGGTGGAGAGACTCGGGATGACTCCTGCTCAGATTCAGGCCTTGCTC  
AGGAAAGGGGAAAAGTTTGGTCGAGGAGTGATAGCGGGACTCGTTGACATTGGGGAAACT  
TTGCAATGCCCCGAAGACTTAACTCCCGATGAGGTTGTGGAAGTAGAAAATCAAGCTGTA  
CCCTGATGCTACAGACGAGGACATCACCTCACACATGGAAAGCGAGGAGTTGAATGGTGC  
ATACAAGGCCATCCCCGTTGCCAGGACCTGAACGCGCCTTCTGATTGGGACAGCCGTGG  
GAAGGACAGTTATGAAACGAGTCAGCTGGATGACCAGAGTGCTGAAACCCACAGCCACAA  
GCAGTCCAGATTATATAAGCGGAAAGCCATGATGAGAGCAATGAGCATTCCCCATGTGAT  
TGATAGTCAGGAACCTTCC  
Sequence 191  
CGCCGGGCAGGTACTCCCTGGAAAGTCCAGCTGAGAAAGCGATCCTGCCCTCTGCTCCTC  
CCAGGGTTACCCCTCCTGTAAGTCTTCTGCTTAGTGTTTCAGAAATTGGGGGATGCTGGGACT  
GGGCAAGGACTTGTAGGCAACACCCCATAGCCTGCTCATGCCTGTTGGGTTGCCTATGGA

Table 1

TCATTCCCTGCTGGGCTCACTACCGGCTTCGTATAAGGTCCTTTTTGAGGTTTATTA  
TT  
TCCTTGTCATATACTTGATGCTCTTCATTGGCTTGCTGGGACCTGCCTTAGGTTCT  
CC  
GAGGCATAAAAGGGCCGGACAGCCCCGAGTTGGGGAACTCTGAAGCTTCTTGGTGGCT  
GGAACCTTGGTCATCTTAAAAATCCTTCAGGTTTTAGCCTGTGCCCCCAAGACAAGGATT  
TTCCAGAATCTTCTACTTCAAGTAGTTACTGGTATGAAGAAGTTTCGGCA  
Sequence 192  
CTCCCGCGGTGGCGGCCGCCGGCAGGACTTTTTTTTTTTTTTTTTTTTTTTC  
T  
GGCTTGAAATACAGCTGAAATAACTGAATTTTCTACTTGAAACGTGTGTGCCTCTCCACT  
GNGGGGCCAAGGCCCTGGAATGTAAAGGGCCAATCTTGTACAGAGGGGTTCAATTGCA  
GTGAAGGGCGGGTTCTGCAAGACAAACAGGTCTCACAGATAGTTGCCCCCGCGTACCT  
Sequence 193  
NGGCGGCCGAGGTACGCGGGGGGCTGNAGTAGGCTTCGTCTTCGGNTTTTCTCTCCTTC  
GCTAACGCCTCCCGGCTCTCGTCAGCCTCCCGCCGGC  
Sequence 194  
CGGCCGCAGCGGCAGCTACAACAACCGCGTCGCTCTCCGCTCAATTTCCAAGAGCCAGCT  
TTGAAGCCAAGTGCCCCCGCGTACCT  
Sequence 195  
CTTCCCGCGGTGGCGGCCGGTGTGCTGTGCTCAGCTGCCTTCCAAAGGAGGAACAGATCG  
GCAAGTGCTCGACGCGTGGCCCGAAAATGCTGCCGAAGAAAGAAATAAAAACCCTGAAAC  
ATGACGAGAGTGTTGTAAAGTGTGGAAATGCCTTCTTAAAGTTTATAAAGTAAATCAA  
ATACATTTTTTTTTCAAAAAAAAAAAAAAAAAAAAAAGTACCT  
Sequence 196  
CGGTGGCGGCCGAGGTACTTTGAGCTCATAAGCTGGTATAAAATATCAAACATTTTGACT  
GTTTAAACAACTCAAGATATGTTTTGCAAAATTACAAAACATTATACAGGTGACTTAATT  
AATATCTACTCCAATTATACACAACACATCATGCTGAAGATTTAGATTTATTTGAAAACA  
CTTAGTCTAATTTATATTAGTGCAGAAAAATCACATTCAATAAACCACAATTGTAGAAG  
A  
GACAGATAAGTGTTTGTACATTTTACACAAATATAATTTGATATTTAATTAAGGG  
A  
TGATGAATCACAATCACCATGGTCGCCGCCTGAGCGCCAACCCCTACCCCGTCGCCTCAT  
CGGATCCCCCGCGTACCTCGGCCGCTCTAGAACTAGTG  
Sequence 197  
NCGAGGTACCTGCCTNACAGNGCAGGGCGGTATGCCGCCAAACGCTTCCGCAAAGCTCAG  
TGTCCCATTGTGGAGCGCCTCACTAACTCCATGATGATGCA  
Sequence 198  
TTGCTCAGCCTTTCCAGGCCCTCTGATGAGCTCTCTAATCAGCAGGACCAAGGTGTGAA  
TGTGGGAATGAACATGGATCCATCCATTGGATGGAGAAGAAAGGTGGACAGCCTGTTG  
TCTCTCATGTCAGCCTAGGGCTGGGAACAGTTTGTGAGGACTTATCTGTTGTACCT  
Sequence 199  
GGAATTGCTCAGCCTTTCCAGGCCCTCTGATGAGCTCTCTAATCAGCAGGACCAAGGTG  
TGAAGTGGGAATGAACATGGATCCATCCATTGGATGGAGAAGAAAGGTGGACAGCCTGT  
TCGTCTCTCATGTCAGCCTAGGGCTGGGAACAGTTTGTGAGGACTTATCTGTTGTACC  
T  
Sequence 200  
GANGAGAAAGCTGGAAGAAATAGATTGGGTGACATTTGGGGTTATATTGAAGAAGGTTAC  
GCCACAGAGTGTGAATAGTGGAAAAACCTTCAGCATATGGAACTGAATGATCTTCGTGA  
CCTGACACAATGTGTGTCCTTGTCTTATTTGGAGAAGTTCACAAAGCGCTCTGGAAGAC

Table 1

GGAGCAGGGGACTGTCGTAGGGATCCTCAATGCCAACCCCATGAAGCCCAAGGATGGTTC  
AGAGGAGCGTGACTGTGAGTACCT

## Sequence 201

GCCGAGGTACTCGGGCAAAGAGGGTGACANGTTCAAGCTCAACAAGTCAGAACTAAAGGA  
GCTGCTGACCCGGGAGCTGCCAGCTTCTTGGGGAAAAGGACAGATGAAGCTGCTTTCCA  
NAANCTGATGAGCAACTTGGACAGCAACAGGGACAACGAAGGTGGACTTTCCAAGAAGTA  
CCTGCCCCGGGCGGCCGCTCTAGAACTAGT

## Sequence 202

TGGGGCACAGAGAGGGTTTCAGAGGATCCTTGNGAAACACTAGTTAAAAGATGACCGAGT  
GGGGAGAAGTGCGAGGAAAGAAGGAAATTAGTCTGACTGGCTTTCTGTCCTGCACCATTG  
ATTCAATGGAGACTGGGCGGGAGGAAATGGAAGACTAGGGTTGGAGATGGGATGGGTGGG  
GCAAGGGATGGAAAGGAAAAGGCAGACAATAATGCGTTCCATTTATAACAAGTAATATA  
TATCAAAGCACTTTAAAGGAGATTANAAGGACCCAATCAGGAATANATTTGGGCCAACCT  
TTANATTCTTTAGGGAAGGATTCAAAGTTCCCTCCAAAACCTAATTTTTGGATGGTT  
T  
TATTNACTAAAAAGCCAAAAGACCAAGTTNTGGGTACCCTGCCCGGGGCGGCCCGCC  
TCTTAAGAACCTAGGTNGGGATCCCCCGGGGGCCTGCAAGGGAATTTCCGATATTCAAA  
GCCTTTATCGGNTACCCGGTCCGACCCTNCGAGGGGGGGGGGGCCCCGGGTACCCC  
C

## Sequence 203

GCGGCCGCCCCGGGCAGGTACGCGGGGAAGTCTNTCCTTTCTCGTTCCCCGGCCATCTTAG  
CGGCTGCTGTTGGTTGGGGGCGTCCCGCTCCTAAGGCAGGAAGATGGTGGCCGCAAAGA  
AGACGAAAAAGTCGCTGGAGTCGATCAACTCTAGGCTCCAACCTCGTTATGAAAAGTGGGA  
AGTACC

T

## Sequence 204

CTCCCCGCGGTGGCGGCCGAAAACCTGATCAGACTGTCTCAGATCAAGGAAAAGATGGCCA  
GAGAGAAGCTGGAAGAAATAGATTGGGTGACATTTGGGGTTATATTGAAGAAGGTTACGC  
CACAGAGTGTGAATAGTGGA AAAACCTTCAGCATATGGAACTGAATGATCTTCGTGACC  
TGACACAATGTGTGTCCTTGTTCTTATTTGGAGAAGTTCACAAAGCGCTCTGGAAGACGG  
AGCAGGGGACTGTCTGAGGGATCCTCAATGCCAACCCCATGAAGCCCAAGGATGGTTGAG  
AGGAGGTGTGTTTATCTATCGATCATCCTCAGAAGGTCTTAATTATGGGTGAAGCTCTTG  
ACCTGGGAACCTGTAAAGCCAAGAAGAAGAATGGAGAGCCGTGCACGCAGACTGTGAA

## Sequence 205

CNCCGCGGTGGCGGCCGAAAACCTGATCAGACTGTCTCAGATCAAGGAAAAGATGGCCAGA  
GAGAAGCTGGAAGAAATAGATTGGGTGACATTTGGGGTTATATTGAAGAAGGTTACGCCA  
CAGAGTGTGAATAGTGGA AAAACCTTCAGCATATGGAACTGAATGATCTTCGTGACCTG  
ACACAATGTGTGTCCTTGTTCTTATTTGGAGAAGTTCACAAAGCGCTCTGGAAGACGGAG  
CAGGGGACTGTCTGAGGGATCCTCAATGCCAACCCCATGAAGCCCAAGGATGGTTGAGAG  
GAGGTGTGTTTATCTATCGATCATCCTCAGAAGGTCTTAATTATGGGTGAAGCTCTTGAC  
CTGGGAACCTGTAAAGCCAAGAAGAAGAATGGAGAGCCGTGCACGCAGACTGTGAATTTG  
CGTACTGTGAGTACCT

## Sequence 206

TCNCCGCGGTGGCGGCCGAGGTACTCACAGTCACGCTCCTCTGAACCATCCTTGGGCTTC  
ATGGGGTTGGCATTGAGGATCCCTACGACAGTCCCCTGCTCCGTCTTCAGAGCGCTTTG  
TGAATCTTCCAAATAAGAACAAGGACACACATTGTGTGTCAGGTCACGAAGATCATTCACT  
TTCCATATGCTGAAGGTTTTTCCACTATTACACTCTGTGGCGTAACCTTCTTCAATAT  
A  
ACCCCAATGTCACCCAATCTATTTCTTCCAGCTTCTCTG GCCATCTTTTCTTGAT  
C



Table 1

TGAGACAGTCTGATCAGTTTT

Sequence 207

TCCCGCGGTGGCGGCCGCCGGGCAGGTACATGGTTCTTCCTCAGAAAGTGGTTCTTCCT  
TAATGTGTTTCTTTTACCCCTTTTCTTCTTCTTCTTACAGATGNGGCTTCNTCTTCTG  
CCACTTTTCTTCTTCTTCTTCAACTGAATAGGGTAAGTGTAAGGCACAACAAAT  
T  
AACACTGTATCAGATCTCATTCTTCCAAAAACGTTTGAGTCCTAGTTTTTTTCTGTCA  
T  
TCTCATCAACTACCCAATGTTTGTTTTGTTTATTTATAATTGGGAAGGTTCTCCAAGG  
C  
CTACCACTAACTTTAACGAATGATATAGATAGAGCTCAGAGCAATCTTCTCAGCATCATG  
AAGTCATGTATAAAATCAGGATTAACAAAGGTCATCTGATCTCCAATCATTATTGGG  
AAGGAAAGTCAATTATATTANGAAATGGTTAAGAGCTTGCACTCTGAAGTCAGACGGCCT  
GGGTTTAATCTACCTGCTGCACCTGAAAAATTGGTATTTACCTT

Sequence 208

CGCGGTGGCGGCCGCCGGGCGGTACATGGTTCTTCCTCAGAAAGTGGTTCTTCCTTAA  
TGTGTTTCTTTTACCCCTTTTCTTCTTCTTCTTACAGATGTTTCTTCTTCTTCTGCCA  
CTTTTCTTCTTCTTCTTCAACTGAATAGGGTNAGTGTAAGGCACAACAAATTAA  
C  
ACTGTATCAGATCTCATTCTTCCAAAAACGTTTGAGTCCTAGTTTTTTTCTGTCACTCT  
CATCAACTACCCAATGTTTGTTTTGTTTATTTATAATTGGGAAGGTTCTCCAAGGCCT  
A  
CCACTAACTTTAACGAATGATATAGATAGAGCTCAGAGCAATCTTCTCAGCATCATGAAG  
TCATGTATAAAATCAGGATTAACAAAGGTCATCTGATCTCCAATCATTATTGGGAAG  
AAAGTCAATTATATTAGAAATGGTTAAGAGCTTGCACTCTGAAGTCAGACGGCCTGGGT  
TAATCTACCTGCTGCAACCCTGAAAAATTGATTTACCTTGGTGAAGCTCCTATCTAT  
A  
AAACTTAAGAATGTCTTATCTTACTGGACTGGTACTGGATTAAAAAGA

Sequence 209

CACCGCGGCGGCGGNCGAGGTACACGACATAGGCACATGTGCAAACACAAAGAAGGTGGG  
CATGCTGCTTCTTTCTNTCTGCCCTAGNCCAGGCTCCTTTGCTTCACGNAAGATNNACA  
CTTTCCCATTCCTCTGAAGTTGCTGGAAGGACATTTCCAGGAAGAAACAATTCCTCACT  
GCCTATAAACTGTAGTCCCAATGTNNGGATAGTCAANNGAACATGAGAATCANAACCAAT  
CTGGGCAAATGGGGNATGGCAAGTAATGGGNGAACACGCACTAACAGGNACAGTATGCC  
AACCT

Sequence 210

GGTGGCGGCCCCGAGGTACTCACAGTCACGCTCCTCTGAACCATCCTTGGGCTTCATGGGG  
TTGGCATTGAGGATCCCTACGACAGTCCCCTGCTCCGTCTTCCAGAGCGCNNTGTGAAC  
TCTCCAAATAAGAACAAGGACACACATTGTGTGAGGTCACGAAGATCATTCAAGTTCCAT  
ATGCTGAAGGTTTTTCCACTATTCACACTCTGTGGCGTAACCTTCTTCAATATAACCCC  
A  
AATGTCACCCAATCTATTTCTTCCAGCTTCTCTCTGGCCATCTTTTNCCTTGATCTGAG  
A  
CAAGTCTGATCAAGTTTTCGG  
C

Sequence 211

GCGGTGGCGGCCCGAGGTACTCACAGTCACGCTCCTCTGAACCATCCTTGGGCTTCATGG  
GGTTGGCATTGAGGATCCCTACGACAGTCCCCTGCTCCGTCTTCCAGAGCGCTTTGTGAA  
CTTCTCCAAATAAGAACAAGGACACACATTGTGTGAGGTCACGAAGATCATTCAAGTTCC  
ATATGCTGAAGGTTTTTCCACTATTCACACTCTGTGGCGTAACCTTCTTCAATATAACC  
C

Table 1

CAAATGTCACCCAATCTATTTCTTCCAGCTTCTCTCTGGCCATCTTTTCCTTGATCTGA  
G  
ACAAGTCTGATCAGTTTT  
Sequence 212  
GGNGGCGGCCGCCGGGCAGGTACTTTTNAATTTTTTTTTTCTGNAGAGACGAGGTCT  
TTCTATGCTGTTTCAAGCTGAACTTCATGGGTTTATTGGGGATGGCTAANGGATGACATTG  
GCTGGTGGTCTTGATACCAGATAAGCCCTCAGTGTGAAGCAGCTCTATTTTTCTT  
GT  
CTTGAGATTGCTCTTGAATGGAAATTAGGCTTTTTTGAAGGTGTCGACCCTTTTTGG  
TT  
CATTTCTTCAGCAGTTACTTTTTATTTTTTTTAAATGTTTTGACACACAAGTCTTNTGG  
ATAAATGAATCANTTACCCAANCAACCCCGGATTACTTCTCCTTTGCTCTGGNTAA  
GT  
NGNTGAACACNTGTCCCCTTTTGAAGAAATCTGGGNCGACAGCTTATGTATCCCCATTCA  
CCCACAACACCCCCAAAAAAAAAAAAATTTATTGTCTTGGGGTCCCCAGGGGAGNTT  
ACCCTTTTTAATGGAAGAAAGGTNCCATTCTTGNGGAAAGAACCCCTNGGGAATGNTTTC  
AANAAGGAAACCTTTCCCTGGGGGAAAAACAACCTTGNAAGGAAAAAATTTAAAGGAAG  
GGCCCGGGGCC  
Sequence 213  
GCGGNGGCGGCCGTTTGAGAAGCCAGCGCTCACCCACCCGGGGTCTCTGTGCATTGACCT  
TTGGGTGCTGACTTGAGAAAAGCACAAACACGACCAGTCCCCCGCGTACCTCGGNG  
Sequence 214  
TCCCCGCGGTGGCGGCCGAGGTACATGCCTACAGATAGTCCCAGCTACTCGGGAGGCTGA  
GGCAGGAGAATCGCTTGAACCCAAGAGGCGTAAGTTGCAGTGAGCCGAGATCATGGCACT  
GCACTCCAGCCTGGGTGACAGAGAGAGACTCCATAAGAAAAAAGAAAAAAGGGGGGC  
AAAAAGAAACAGATGAAACCAATGTGAATAATTTATTTTAACACAATATACCTAACATAT  
TTTTATTCAATATCTAACCAGTATAAAAATTTACTTGTTTTGCCCTCTAGAGATAGTAA  
GCTCCTTAAGTAAACAGAAGTAATACCTGATTAATTAGAATCCCAACCCTCATCAAGTG  
TGTGCTTATATAGAAGAAACCCAGTAAATGTTTGTTGATTGAAAGATATTAATACTCTT  
G  
CTTGATGAGAGTGAGGAAAAAGGTATTAAGTATTGGCTTT  
Sequence 215  
GNGGCGGCCGAGGTACTTTGGAGTCCCCTGGTTTCTCAAGAATTGCCGTTGACTCTTTCT  
TTGGCTTCTGCTGGCACGGTAACCAGACTCCCTACAACCTGCACTCTTTGTCTTTGTCA  
TG  
GAAGCCGCGAGCGTAGAGGTTCCGCGTGCTCTGCCGGACTTGAGCAGGTCACTGGGTCTT  
TTACACTTGTGAATTCGAAGCTTGCCAGATGTATCCTCAATGCATTGCCACTTCTGCC  
CC  
GGTTGTTACAGGCTGTCTGGTACGAGATCTCCGACCACTCTGGGGGCGCTGGCGGCCTG  
CGCAGCCACCTCAAGATCACAGATTCTGCTGGCCATATTCTCTACTCCAAAGAGGATGCA  
ACCAAGGGGAAATTTGCCTTTACCCTGAAGATTATGACATGTTTGAAGTGTGTTTTGAG  
AGCAAGGGAAACAGGGCGGATACCTGACCAACTCGTGATCCTAGACATGAAGCATGGAGTG  
GAGGCGAAAAATTACGAAGAGATTGCAAAAGTTGAGAAAGC  
Sequence 216  
CCGCGGNGGCGGCCGAGGTACTTTGGAGTCCCCTGGTTTCTCAAGAATTGCCGTTGACTC  
TTTCTTTGGCTTCTGCTGGCACGGTAACCAGACTCCCTACAACCTGCACTCTTTGTCTT  
TG  
TCATGGAAGCCGCGAGCGTAGAGGTTCCGCGTGCTCTGCCGGACTGTGAGCAGGTCACTG  
GGTCTTTACACTTGTGAATTCGAAGCTTGCCAGATGTATCCTCAATGCATTGCCACT  
TC  
TGCCCCGGTTGTTACAGGCTGTCTGGTACCGAGATCTCCGACCACTCTGGGGGCGCTGG

Table 1

CGGCCTGCGCAGCCACCTCAAGATCACAGATTCTGCTGGCCATATTCTCTACTCCAAAGA  
GGATGCAACCAAGGGGAAATTTGCCTTTACCACTGAAGATTATGACATGTTTGAAGTGTG  
TTTTGAGAGCAAGGGAACAGGGCGGATACCTGACCAACTCGTGATCCTAGACATGAAGCA  
TGGAGTGGAGGCGAAAAATTACGA

Sequence 217

CCCGCGGTGGCGGCCGAGGTACTATCAAACAACATGATACAATTTAAATGTGTGTCATAGCA  
ACTACTAGTGGTCACCTGAAATCCATTTTCCCCTCCTTCACAGTAAGAGTTTTAGNTG  
AA  
TGAGTGGCCACTCATAGAGAGATTGCATTTCTGGCTTCCCTTGCAGCCATAGGTAGCCAT  
GGGACAAAGTTCTAACCCAGGGGGGGTCCAATCTTTTGGCTTCCCTGGGACACACTGGAA  
GAAGAAGAATTGTCTTGGGCCACACATAAAATACACTGGCATCAAGGATAGCTGATGAGC  
AAAAAAAAAAAAAAAAAAAAAGTACCTGCC

Sequence 218

CCCGCGGTGGCGGCCGAGGTACCATCCTGTTNACAGAGCCATTGCCTATTCCTAAATTG  
AATCCGACTGGGCGTGCCCCCTCCTCGGAACACAACAGTAGACCTTAATAGTGGAAACATC  
GATGTGCCTCCCAACATGACAAGCTGGGCCAGCTTTTATAATGGTGTGGCTGCTGGCCTG  
AAGATAGCTCCTGCCTCCCAGATCGACTCAGCTTGGATTGTTTACAATAAGCCCAAGCAT  
GCTGAGTTGGCCAAATGAGTATGCTGGCTTTCTCATGGCTCTGGGTTTGAATGGGCACCTT  
ACCAAGCTGGCGACTCTCAATATCCATGACTACTTGACCAAGGGCCATGAAATGACAAGC  
ATTGGACTGCTACTTGGTGTCTCTGCTGCAAACTAGGCACCATGGATATGTCTATTA  
CT

CGGCTTCTTAGCATTACATTCCTGCTCTCTTACCCCCAACGTCCACAGAGCTG

Sequence 219

GTTATTGGTGGTGAAGACCCGNAGCAACAGTGGGCATGTCTTCTCGCGGTGATCGGNTT  
CTCTGGCTCCTTNTTAATTTCTCCTGGGNAACGCGGACTCCACCGCCATCTTCTCCT  
ACGGCCTGCGAGAGCTCCCCCGCGTACCTCGGCCGCTCTAGAACTAAGTGGGATCCCCC  
GGGCT

Sequence 220

GGCGGCCGAGGTACCATGATATCATGTATCCTGCTTGGACATTTTGGGAAGGGGGACCTG  
CTGTTTGGCCAATTTATCCTACAGGTCTTGGACGGTGGGACCTCTTCAGAGAAGATCTGG  
TAAGGTCAGCAGCACAGTGGCCATGGAAAAAGAAAACTCTACAGCATATTTCCGAGGAT  
CAAGGACAAGTCCAGAACGAGATCCTCTATTCTTCTGTCTCGGAAAAACCCAAAACCTTG  
TTGATGCAGAATACACCAAAAACAGGCCTGGAAATCTATGAAAGATACCTTAGGAAAGC  
CAGCTGCTAAGGATGTCCATCTTGTGGATCACTGCAATACAAGTATCTGTTTAATTTT  
C

GAGGCGTAGCTGCAAGTTTCCGGTTTAAACACCTCTTCCTGTGTGGCTCACTTGTTTT

CC

ATGTTGGTGATGAGTGGCTAGAATTCTTCTATCCACAGCTGAAGCCATGGGTTCACTATA  
TCCCAGTCAAAACAGATCTCTCCAATGTCCAAGAGCTGNTACAATTTGTAA

Sequence 221

GCNGGTACAGCAACAAGAATCAGATGCTCTTTAGAGATCCTCCATTTCACTACTCTAACA  
TTCTTCAATGTGGTTCCAGCCACGCATAGTCATATAGATACTACATATNCAAAGATAAC  
T

TACTGAAGCTTGTTACAGAACCAAGCTTTCTCCTGGATAAGCTCTTCTNTCCCCTAC

CC

CGCACTTCTTGGGNAAGGTATTACCCCAAAATGCTCTTCAGNNGGATTTAAAATAAACAAT  
TTTTTAAAAANANGGACACTTAACACTCACAAAAAATGGGGGAAATTTTGCTCGGGCCA  
TTGGACNGCGGAAACCAAATTACCGGGTTTAACTTCCAAGNATGGCTTGTCATTTCAAAA  
ACCTGGTATTGGGGGTCCCGTTTCGGAAAAAANANATAGGATATTAACCCATNTTTTTCT  
CATAAGGACCAAGCTATTCTTACNTTTAATCAACCCAAATTTCTGGGGGAAAGGNCC

Table 1

TTTCTTCTTATTTTAGGTCTTCGGGGATAGGTCTTNTANTCCCAATAAATAATTGGGGT  
 T  
 AGGTATTCAATCCATAATCCTCCCAGGACCCTGGGTTTTCCCTNGGAAGAAACAAGGGAA  
 GAGGTCNTTGCCTGGTATCCTCNAAAAGGTTGGAAACCAAGCTTGGCNACTTTATCTTCT  
 TAACTTTTCTTTTGGGAAGGAACCCAGGTTTCAAGATATTTTTTTTTTGGGGAA  
 Sequence 222  
 ATGGCCGGCCTGCGGAACGAAAGTGAACAGGAGCCGCTCTTAGGCGACACACCTGGAAGC  
 AGAGAATGGGACATTTTAGAGACTGAAGAGCATTATAAGAGCCGATGGAGATCTATTAGG  
 ATTTTATATCTTACTATGTTTCTCANCAGATGTAGGGTTTTCTGTAGATGATGATGTCC  
 A  
 TATGGCCATATCTCCAAAAGANATGAATCCGACAGCNGATACAAAGTTTTTTGGGCTGGG  
 TTTATTGCNTCATATAGNNCTTTGGCCCAAATGGNANGCTTACCCTATATNTTGGGT  
 TT  
 ATGGNCTAAATTATTANGACCCANAGGA' :AAGGAGCCTCNTTAATTGGTCTCCCATCTT  
 GATTTTTCCCGTGGNAAGCACAACCTGCCCTCTATGCATATCTTCCACCATCCCCAAGCT  
 TTCTCATAAANTAAAAATAACCTACCAATGGCCTGGGTTGCNTCCGTNGGGAATTTGNNT  
 GGGGAAATTTGGGAAGCCANGTTTTTTTCAAGACCTTNGGNNTTTACAATTCCTTTGGG  
 AGAAA  
 Sequence 223  
 GGGCGGCCGGAGTGATGCCATCTGCAGTTTTGTGATCTGCAATGATTCTTCCCTTCGAGG  
 TCAGCCCATATCTTTAATCCTGACTTTTTTGTGGAGAACTCCGACATGAGAAACCT  
 GA  
 GATTTTCACTGAGTTGGTGGTCAGCAATATCACAAGGCTCATCGATTTACCTGGAAGTGA  
 GTTGGCTCANCTGATGGGGGAAGTGGACCTTAAGTTGCCTGGCGGGGCTGGCCCAGCATC  
 AGGATCTTCCGGTCTCTCATGTCTCTCAAGCGAAAGGAAAAAGGAGTGATATTTGGGTC  
 CCCACTGACGGAGGAAGGCATTGCCAGATATACCAACTGATTGAGTATCTACACAAAAA  
 CTTGCGAGTAGAGGGTTTGTTTAGAGTACCT  
 Sequence 224  
 CCGCCCCGGGCAGGTA CTCCCTGATAAAGGGGAATTTCCATGCCGTCTACAGGGATGACCT  
 GAAGAAATTGCTAGAGACCGAGTGTCTCAGTATATCAGGAAAAAGGGTGCAGACGTCTG  
 GTTCAAAGAGTTGGATATCAACACTGATGGTGCAGTTAACTTCCAGGAGTTTCTCATTCT  
 GGTGATAAAGATGGGCGTGGCAGCCACAAAAAAGCCATGAAGAAAGCCACAAAGAGTA  
 GCTGAGTTACTGGGCCCAGAGGCTGGGCCCCTGGACATGTACAGACTCTCATTTTATGAT  
 GTATCCTACTGCATCAGGACATTTGTGTCAATGTCAGGTGACGAGGGGAAATGAAAGTGA  
 TGAGACGATGAGAGGAGTGAAATACCAAGGACGCCATACTAGGAAACCCAGGTCTATTTG  
 TTATCAGAGTAAGGATCAAGCCAGATAGCCTGTTATGTAATTTCTCCGATAAAAGATT  
 T  
 GAAAGCAGGTGCTGTGGGCATCTGTATGGGGGAATCGCACTCATAGAATTATTTTCATT  
 GTAAATATTTGGTATCAGGCCAGCAAGGGAAA  
 Sequence 225  
 CTCCCCGCGGTGGCGGCCGAGGTA CTACAGTCACGCAAATTCACAGTCTGCGTGCACGG  
 CTCTCCATTCTTCTTGGCTTTACAGGTTCCCAGGTCAAGAGCTTACCCATAATTA  
 A  
 GACCTTCTGAGGATGATCGATAGATAAACACACCTCCTCTGAACCATCCTTGGGCTTCAT  
 GGGGTTGGCATTGAGGATCCCTACGACAGTCCCCTGCTCCGTCTTCCAGAGCGCTTTGTG  
 AACTTCTCCAAATAAGAACAAGGACACACATTGTGTGTCAGGTACGAAGATCATTGAGTTT  
 CCATATGCTGAAGGTTTTTCCACTATTCACTCTGTGGCGTAACCTTCTTCAATATAA  
 C  
 CCCAAATGTCACCCAATCTATTTCTTCCAGCTTCTCTGTGGCCATCTTTTCTTGATCT  
 G  
 AGACAGTCTGATCAGTTTT

Table 1

## Sequence 226

TTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGGGATGGATAGCCGCTTGCA  
GGAGATCCGGGAGCGGCAGAAAGTTACGGCGACAGCTCCTCGCGCAGCAGTTGGGAGCTGA  
AAGTGCCGACAGCATTGGTGCCGTGTTAAATAGCAAAGATGAGCAGAGAGAAATTGCTGA  
AACAAAGAGAAACTTGCAGGGCTTCCTATGATACCTCTGCTCCAAATGCAAAACGTAAGTA  
TCTGGATGAAGGAGAGACAGATGAGGACAAAATGGAAGAATATAAGGATGAAGTAGAAAT  
GCAACAGGATGAAGCTTATCATCAATTCATTGTATAAAAATAAGAGATTTTCTGAGAG  
AACTGATTTCAAATGCTTCTGATGCTTAGATAAGATAAGGCTAATATCACTGACTGAT  
G  
AAAAT

## Sequence 227

CNCCGCGGTGGCGGCCGCCCGGGCAGGTACGCAAAGTGATTGAGAGAACGCTGGGGCTCA  
CAGGCGCTGTAGCAAACGTGCAACTCTTGAGGAACACTTAAGACGCCACCATTCAGAACA  
CAAAAAGCTACAGAAGGTCCAGGCTACTGAAAAGCATCAAGACCAAGCTGTTACTAGCTC  
TGCGCATCACAGAGGGGGGCATGGTGTTCCACATGGGAAATTGTTAAACAGAAATCAGA  
GGAGCCATCGGTGTCAATACCCCTTCTACAAACTGCATTATTAAGAAGTTCAGGGAGTCT  
TGGGCACAGACCAAGCCAGGAGATGGATAAAATGTTAAAAATCAAGCAACTTCTGCTAC  
TTCTGAAAAGGATAATGATGATGACCAAAGTGACAAGGGTACCTCGGCCGCTCTAGAACT  
AGTG

## Sequence 228

GAGCTCCCTCCTACCCCCTAGCTGAGTAGGCCAGGTTTTGGTGCAAATCTCCACATTG  
GCAAAGTTCCTGCATATGCTGCGCAGTATGNGCCTTGAATAAAAATCCTGAAGATTAGAT  
GGTTCAGGCTGCATCATCCCAAAGCAAAGAGCACCTCTTGAAGCTCACCTGCCCGGGCG  
GCCGAGGTACTTTTTTTTTTTTTTTTTTTCAGTANGNAGCTTTAAACAGTTACATAT

## Sequence 229

TGGCGGCCGAGGTACTACAGGATGATGGCTTTCTCTTCTCTGGGTACAGGCANGGGCC  
ATGGAGTTGGGGAGAGAATGTCTAAACCTCTGGGGGTATGAACGGGTAGATGAAATTATT  
TGGGTGAAGACAAATCAACTGCAACGCATCATTCGGACAGGCCGTACCTGCCCCGGGCGGT  
CGAGCGGCCGCCCGGGCAGGTACTTNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TTTTTTTTTTTTTTTTTTTTTGGGAACNGNTACATTGNTCAGTTTTTACTTGNAAAAAGT  
NTTATAGANAGTTTTATTGGAATGTTATTTTATTAAGCCNTTTTCATGGGTATTTTTT  
TTTAAAGTTTAAAAAGTTTTTACAACANGCTGGGNGGGGGGNTTNCACCTGGCATCCCA  
GCACTTTTGGAGGNCCCCGGCGGGCANAAACCTGANGGCGGGGAGGTTTAAAAAANCNACC  
CTGNCCANATTGGNAAACCCNTNTTTTTTCTTAAATTCCTCAAATTAATTC  
C

## Sequence 230

GGCGGCCGCCGGCAGGTACGCGGGGGAGTCAGACCCAGTCAGGACACAGCATGG

## Sequence 231

CCACCGCGGTGGCGGNCGAGGTACGACGTTTCCATCAGCTTGCTGTTTCATTCCCTGAT  
GTTACGAGCAATATGACCATCTTCTGTATTCTGGAACTGACAAGACGCGGCTTTTATCT  
TCACCTTTCTCTATAGAGCTTGAGGACCCTCAGCCTCCCCCAGACCACATTCTTGATT  
ACAGCTGTACCTGCCCCGGCGGCCGCTCTAGAAGTAGGTGGATCCCCCGGGCTTGAGGT  
AATNTCGGATATCAAGCCTTATNCGATACCCGTCGACCCTTCGGAGGGGGNGGGCCCCCG  
GGTACCCAGCCTTNTTGTTCCTTTTGGTGGAGGGGGTTAAATTTGCCGCCGCNT  
TGNGCGGTAAATTCAATGGGTTCATTAGGCTTGCTTCCCTGTGGTGNAAAATTNGTTA  
ATCNCGGCTACCAANTTTCCACCACAAACCAATANCNAGNCCCCGGGGAGGCCATTA  
AAAAGGTNGTAAAAAGCCCTTGGGGGGTTGGCCCTAATGAAGTGGAGCCTAACTTCACA  
ATTAAATTTGCCGTTTGGCGCTTCACTTGCCCCGCTTTTTCCAAGTCCGGGGA

Table 1

## Sequence 232

CGGTGGCGGCCCGCCGGGCAGGTACTTTATTTTTTTTTTTTTTTTTTTTTTTNCTTTNA  
A  
AAAAAAAAAANGATATTTTAATATATTCAGATCCNCAAATATGAAATAAACTAAGNNGA  
GCTGGTATTCATTTACACATAATTATCTTATACCGTTNGGAATAAGAATTTGGGGCNC  
GT  
TAGCAAACCAAAAGGCTCAAAAAGACGTCGNGATATTTAGTTCCTGTCTCCCTCTACAAA  
NGGGAAGCACTNTTTTATCCGGCATTCCTAGGGGNGTTCTATTTTCAA

## Sequence 233

CGGTGGCGGCCGNCCGGGCAGGACGCGGGGGCCAGTTCTCTTCGGGGACTAAGTGAACG  
GAGAGACTCAAGATGATTCCCTTTTTACCCATGTTTTCTCTACTATTGCTGCTTATTGT  
T  
AACCTATAAACGCCAACCAATCATTATGACAAGATCTTGGCTCATAGTCGTATCAGGGGT  
CGGGGACCAAGGCCCAAATGTCTGTGCCCTTCAACANGATTTTGGGCACCAAAAAGAAAT  
ACTTCAGCCACTTGTAAAGAACTGGGTATAAANAAGTCCATCTGTGGGACAGNAAAAAC  
CGACTGTGGNTATTATGGAANTGTTGCCCTGGGTTATTATGGAGGAATNGGGAAAGGGA  
AATGGAAAAGGGCTGCCCAAGNCANTTTTTAGCCCATTTGACCCANTGGTTTTATTGGG  
CACCTTCTGGGGCCATCCGGTNGGGGGAGGCNCACCCACCAAACCGGNAAGCCGCCTTA  
TTTCTTGGACCGNCCCTNAAANAAACCTTGAAGGGGGAAGGGGNGGAATCCGGAGGGGG  
AAAAGGGGGGA

## Sequence 234

CGCGGAGGCGGCCCGCCGGGCAGGTACAGTATAGGTTGGTTTTGCCTGTTTTGACGCTTT  
ATATATACGTAGACACACATACATGTATATATACACACACATTTTACATATATATA  
TGAAACTGTATAATGTGTTGCTTCAGTGTCTGGCTGCTTTTACTCAACATTGTGAAAT  
T  
AATTCCTGTTATCGGNATATGGGTATCNAAATTTGNTTTGCCCTAGTTTTTGCCTTCTC  
A  
TTGCTTTCTGAATTGGGGGCAGCTTTGCCCTCAAGGGGAAATTTAGCAATGTCTGGAGA  
CATTTTTTTTATTTTCATAATTTNGGGAGGGGACATGGGGGGAGGTTTGGTGGCTACAGG  
AACCTTAATTAAGGTTGAGGGACAGGGGTTAGGTGCTTGAACGGTTNCCACANGTAACA  
CTTCGGGCNCGCTTNTAAGAAACCTAGGTGGGATCCCCCNGGGTCTGGCNANGGAAA  
ATTCCGANTATTNCNAAGCCTTANTCGANTACCCCGNCGACCCTTNGANNNGGGGGGGG

## Sequence 235

CGCGGTGGCGGCCGAGGACTTTTTTTTTTTTTTTTTTTTTTTTATAATAATTTTGT  
CATTTTTGTAGAGACAAGGTCTCCCATGTTGCCAGGCTGGTCTCAAACCTCCTAGGCTCA  
ACTGATCCTCCTACCTCCACCTNTGCCCTCCCAATTATCCCCAATTGAGAGATGAAAATTC  
TGACAAGCTCTCAAACGTTAACTGACTTGCCCATAAATGACAGTTCCAAAGTTATAAGGG  
CCTAGNAACNTTGAATCCAGGTNCTGTTAGNAAATTCTAGGGTTTGAGAAATCCCATATT  
TCTNTCCACTTCCCGCGGTACCCTGCCCCCGGGGCCGGCCGCTTCTAGGAACNTAGGT  
GGGATCCCCCGGGGCTTGCAAGGAATTCCGATATTCAAGCCTTATTCGGATAACCCGT  
CCGACCCTCGAAGGGGGGGGGGGCCCCGGGTACCCAAGCTTTTTTGTCCCTTTTAGTGG  
AGGGGGTTTAAATT

## Sequence 236

GCGGCCGNCCGGGCAGGNACCTACGCCACAGACAGCCAGAGGGAAAGCGACCCAGACAGC  
AGCCCCCTCCTCGACAGGCCACCCCTGCAGCTCAGGCACCAAGAAAACAGCCGATACTGGC  
AGCCATTGCAGCTCCAACTGCANNAGGCAAGGCCAATTTTAACTTTTCAATTTACAGTC  
GATTTTGAAGAGCTTTCTACATATCCGGTTATGTAAANTTCATATATGTATTTTTTGAA  
ATCAGTTCTTATANAACCAGCCTCCGATTCAAGTCTTAGGCTAAAATTTATAGGTCC  
T

Table 1

AAGGGTAGGTATGGTTAACAATTTTGAACCTTTTTGGTCCTTAAGAAAAAGGTTGGAC  
TTGTTTCAANATANTTTCTNTCTTACCTNGTGAAAAGGAAAATCNTTACTTTTTCTCTAA  
TTAAAAAGGAATTCCTGTTACCCTTCGGGCTCCGCTTCTTAGGAACTTAGGTGGGGATC  
NCCCCCGGGGTCTTGNGAAGGNAAATTTTCGAATATCCAAAGGCTTTTATTCGAATAC  
CCCGGCTCGGAACCTCGGNAGGGGGGGGGGGCCCCGGGTACCCCCAAGCTTTTTTNGT

## Sequence 237

GCAGTTTTGTGATCTGCAATGATTCTTCCCTTCGAGGTCAGCCCATTATCTTTAATCCT  
G  
ACTTTTTTGTGGAGAACTCCGACATGAGAAACCTGAGATTTTCACTGAGTTGGTGGTCA  
GCAATATCACAAGGCTCATCGATTTACCTGGAAGTGAAGTTGGCTCAGCTGATGGGGGAAG  
TGGACCTTAAGTTGCCTGGCGGGGCTGGCCCAGCATCAGGATTCTCCGGTCTCTCATGT  
CTCTCAAGCGAAAGGAAAAAGGAGTGATATTTGGGTCCCCACTGACGGAGGAAGGCATTG  
CCCAGATATACCAACTGATTGAGTATCTACACAAAACCTGCGAGTAGAGGGTTTGTTTA  
GAGTACCT

## Sequence 238

CCCGCGGTGGCGGCCGAGGTACGCGGGGATTGTGTGCAAAATCAGAGAGGGGTGCAAGGA  
TCCTGATTTTTTCAGGAGTTCAAGCGACAATGGCAGCCCAATACGGNAGTATGAGCTTCAA  
CCCCAGCACACCAGGGGCCAGTTATGGGCCTGGAAGGCAAGAGCCCAGAAATCCCAATT  
GAGAATTGTGTTAGTGGGTAAAACCGAGCAGGAAAAAGTGCAACAGGAAACAGCATCCT  
TGGCCGGAAAGTGTTTCATTCTGGCACTGCAGCAAAATCCATTACCAAGAAGTGTGAGAA  
ACGCAGCAGCTCATGGAAGGAAACAGAAGTGTCCGTAGTTGACACACCAGGCATTTTCG  
ACACAGAGGTGCCCAATGC

## Sequence 239

CCGCGGTGGCGGCCGAGGTACCAGTTAAGTGAACAGCTCGTCTAGGTCTGCTTTTGTAAAC  
ACCCAAATACAATTAGCACTTCTCTGCTGGTATTCCCTGGGCCGTCTTAATTATCTAG  
AG  
GCCAGGAGGCCAAAGCCTAGCACGTAACAAAGTATGTGCTTTGTAAGTCTGATTAATTCA  
GTTTCTTAAGTGGCAGAGCAGGTATCATGATCTAATTCACTATTAATACACTG  
T  
CTTGCTGAAGAGTCTGACCCTGCCCAGGAACCCCCGTTATGGCCTAGCCCCAGNGGGAAG  
NCAGTAAACCTGCCAANAGCCAGGAGAAAAAAGGGGGCCAGTCTTAAGAAATGAAGGCC  
TAGGTGCTTGGCCTGGAGCTCCAGTTTTAGGGTCTGTTACTGTTTCTGGTTTCCAAC  
TTATTAAAAATCCAGGGGATGGACCTGGTTACCTCAGATTTAGGTTGCCTTATGGTAGGA  
AAAATAGGAATGCCACAGGCCAAAAAACATTAATTTGGGGGGGATGGACTTGGGCAGNC  
ACCCTTTTTTTTTTCCCTTTTC  
TT

## Sequence 240

GNGGNGGGCCGCCCCGAGGTACTTTTTTTTTNTTTTTTGGTATGACTATAGATGGC  
TA  
GTGNGTCTTTTTATTAGCTATCANC GTTCATTTAACAGACAAAAATTCAAGTTCAATG  
N  
NNGGNCATTAATAACGGAAGAATTAACAATAAGTTCATTAATCAATCTTTCANCTGTT  
C  
CTATTTTATCACAAATNACTTTTCTTANAATTGGAANAAGGATNCATGGGAAGGGGACAA  
GTCTTGAAAAACGCAAACCGTAATTGTGTTCTTTCAAATTCATAAAAGACACTTCAGG  
NNCAAAAAATAATAACAAGGNAAGGGCCGCNTCATTACCTNTTAGTTTNGGGNGTN  
GGAAATTGAATCATGGCCAAGTGCCCTAAGNGCNTTTTTGCTGNTNAGTTAACCCNCCGTG  
CCCGGTCNTAGGAAACCTATGNTGNGGATCCCCCGGGGCTTGCCANGNGGAAATTT  
CGAATAATCCAAANGCCTTTATCCGGAATACCCCGTCCGGACCCNCCGAAGGGGGGGGGG  
GGG

Table 1

## Sequence 241

GCGGTGGCGGCCCGGTGTGCTGTGCTCAGCTGCCTTCCAAAGGAGGAACAAGATCGGC  
GTGCTCGACGCGTGGCCGAAAATGCTGCCGAAGAAAGAAATAAAAACCTGAAACATGAC  
GAGAGTGTGTAAAGTGTGGAATGCCTTCTTAAAGTTTATAAAAGTAAATCAAATTAC  
ATTTTTTTTCCAAAAAAAAAAAAAAAAAGTACCT

## Sequence 242

TGTCTCAGATCAAGGAAAAGATGGCCAGAGAGAAGCTGGAAGAAATAGATTGGGTGACAT  
TTGGGGTTATATTGAAGAAGGTTACGCNACAGAGTGTGAATAGTGGAACCTTCAGCA  
TATGGAACTGAATGATCTTCGTGACCTGACACAATGTGTGTCCTTGTCTTATTGGA  
G  
AAGTTCACAAAGCGCTCTGGAAGACGGAGCAGGGGACTGTCGTAGGGATCCTCAATGCCA  
ACCCATGAAGCCCAAGGATGGTTCAGAGGAGCGTGACTGTGAGTACCT

## Sequence 243

GTACGCGGGGTGCTGGGATTACAGGCACGAGCCAGTGCGCCAGCTGCCTCTGTTTCTTT  
TATTAAGCTGTTCTGGACTGTGGGGCTCCTTGGGCAGATGCTGTATTATGGGGATAAGCC  
ACACACTTTTTGAACTGGCCCGGTGAGGGGGACATAACCATTNCTGTGCCACCCCATC  
AATCCCCACCTATTCTGAGTGTAGGCTCCTCCCCTGCTTGAGTAATGGCCACAGATCTTG  
GCTCGGCACTCCTAAGCTGCATGTTGAATTCCTGGGACAACAAGACTGGCTTGTGGTTCC  
ATTCTCCAGATCCTTGGGTTGGCTTCTGGGTGCACTAGGAGATCTGAAATGCTCTCAGGC  
CACCAGGAAAAGTACTGGAAGTAAAGTCTGACTCTAAAGAAGATGAAAATCTAGTAATTAA  
TGAAGTAATAAATTCTTCCAAAGGGAAAAAACGCAAGGNAGAACATCAAACAGCTTGTGC  
TTGTAGTTCTCAATGCACGCAAGGGTCTGAAAAGTGTNCTCAGAAGACTCTNNAAGAGAC  
GAAACGAACCCTGTGCCTGTAACTTTTGAGGNGAAAAGAACAAAAATGGCTCTTAGGNGG  
TCCCGAAAAAAN

## Sequence 244

TCCACCCACCTCGGCCCTCCAGTGTGCTGGGATTACAGGCATGAGCCACGGCACCCGGCC  
CTGGTTTGCTTTCTGAACCATGTCAATACAGTACCACCACAGTTGCTATCTCTTGAAAC  
AT  
CTTTCATTAATAACATCACCGTCTAGTTTGAGAATACTTTTAAGCCTGCTGGCCTCCTTT  
G  
GGGCATTCTTTTTTCTCTTTTCTCAGCACGCATCTTTCTTTTCCACTTACTCCGTAAGCTT  
T  
TAGCCATGTTTTACCTTGAGGGCCGAAGTTAACTTCAGCGGGAGTGAACGACAGGGGTGG  
GCTCCACTTTATCCAGTGCCTCGGAAGCCGGAGGGCCCCCACCAGGCAAGGGGA  
ACCCTC

## Sequence 245

CCCCGCGGTGGCGGCCCGCCCGGGCAGGTACAATTGCTTGAGTGAGTTCATGGTCCGTAGG  
AGGATGACCACTAGCCCACCACCTTCCACTGTTTCTACAGTCCTGGNCAGCAAGTTTGGA  
GTTAAGGCTTCAAATCCTGCAGCACACATGCCGAAGGTATTGCCAGGATCTTGTGG  
GTCTCGTTGTAGTAGCAGTAGCGAATGTTTGTGGCTGCTATGAAGAGTTCAAAGGGGTG  
TCCTGCTTTATGTTCAAGTGTTCATTCTTTATTTTCTTCTGCAGCTGTCGCA  
T

## Sequence 246

GCGGCCGTGGGGATCAGCGTAGGTGAGCTGNGGCCCTTTTGGCAGGTGCTGCAGCCATAGC  
TACGTGCGTTGCTACCGAGGATTGAGCGTCTCCACCCATCTTCTGCGCNGNCACCATCT  
ACATAATGAATCCCAGTATGAAGCAGCAACAAGAAGAAATCAAAGAAGAATATAAGAA  
ATAGTTCTTGTCCCAAAGGAAGGAACTCTTGAAGGATTGAATTTAGCCCTTCTTGCAT  
CTTGGGATCTCTTGGTTGGGAAACGGAAGGAAANAAATNGGAAGCCTTGTCCCGCAAGNG  
CTTTGTCCANANAAAGGGGAAAAACATTCTGGGGAATGGACCCACCTTTAAACCATCTAC  
CAAACCTTCCAAGCCCTTGGGGGGGTNTATTTGGTCCCAACACAAAAAATAGAAGTA



Table 1

TAAAGAAATANAGGTTANCCCTTCGGGCCCCGCTTCTTANGGAACCTAGNNGGGGAATCCCC  
CCGGGGCCTTGCCAGGGGAAATTCNGGAATNTTCAAAAGCCTTTATCGGAATACCCCGTC  
CGGACCCCTTCGGAGGGGGGGGGGGGGCCCCGG

## Sequence 247

GGCTTGCTTGACTAGATGAGCTGCTATAGTAGCCAATCCTGTTAGACTTGGACCATTGTT  
TGTCTGAAGAANGGGAATCTGTCGCTCGCCCTGAGCACTGTATTTATCCCTTACTCAA  
GNCCCAAGGGACTTCTCCAAGTAGCCGACAACTCTGCCGGGCCGCCGCCATCTTCCGG  
GCCCCGCTCTAGAACTAAGTTGGGGATCCCCCGGGGGCTTGCAAGGGGAAATTTCCGAA  
TATCAAAAGCTTATCAGAATAACCCGTCCGAACCTTCGGAAGGGGGGGGGGGGNCNCCGG  
GGTACCCCAAGCTTTTTTGTNTCCCTTTTAAGTGGAAGGGGGTTAAATNGCCGCCGC  
NTTGGGCGGTAAANTCANTGGGTCATTAGGCTTGTTCCTGGTNGTCGGAATAATTTG  
NNTTATCCCGCTCACCAAATTCNACAACAACAATAACCGAAGCCCGGGGGGAGGCCA  
TTAAAAAGGTTGGTAAAAAGNCNCTTGGGGGGTGGCNCTAAATGGGAAGTNGAGCCTAAA  
CTTACAATTAATTTGCCGTTTGCCGCTTCACTGGNCCCGCTTTTCCAAGT

## Sequence 248

CCNCTCCCGCGGTGGCGGCCGAGGTACTTTNTTTTTTTTTTTTTTTTTTTTTCTTTTT  
TTTTTTTTTTTTTTTTTNCAGAGACNAGGAATTAATTAGGGNTGTAACAAATGGTTA  
ATTNTAGNAAGAAAAACCAAATTGAATAATTTTCTAACTCACTTGGCAGGGGGGNGCTCG  
CANCCNTAATGAACATCACATAATGAAGTTNCTCCTTTCCANATCTATAAACAGGCTCAT  
GTAATAACTGATNCTCAGTAAANGGNNCATAATCCAAATNTNTNTAACAAANGGGGCT  
TGCTATAAAATCTCTTACATTTTAANACTTACTCTTAANAAATCATCTATTCTTCCCTC

## Sequence 249

AGACTGTCTCAGATCAAGGAAAAGATGGCCAGAGAGAAAGCTGGAAGAAATAAGATTGGG  
TGACATTTGGGGTTATATTGAAGAAGGTACGCCACGGAGTGTGAATAGTGGAATAACCT  
TCAGCATATGGAACTGAATGATCTTCGTGACCTGACACAATGTGTGCTCTGTTCTT  
AT  
TTGGAGAAGTTCACAAAGCCGCTCTGGAAGACGGAGCAGGGGACTGTCGTAGGGATCCTC  
AATGCCAACCCCATGAAGCCCCAAGGATGGTTCAGAGGAGGTGTGTTTATCTATCGATCAT  
CCTCAGAAGGTCTTAATTATGGGTGAAGCTCTTGACCTGGGAACCTGTAAAGCCAAGAAG  
AAGAATGGAGAGCCCGTGACGCAGACTGTGAATTTGCGTGACTGTGAGTACCT

## Sequence 250

CGGCCGGAGTGATGCCATCTGCAGTTTTGTGATCTGCAATGATTCTTCCCTTCGAGGTCA  
GCCCATTATCTTTAATCCGGACTTTTTTGTGGAGAACTCCGACATGAGAAACCTGAGAT  
TTTCACTGAGTTGGTGGTCAGCAATATCACAAGGCTCATCGATTTACCTGGAAGTGAAT  
GGCTCAGCTGATGGGGGAAGTGGACCTTAAGTTGCCTGGCGGGGCTGGCCAGCATCAGG  
ATTCTTCCGGTCTCATGTCTCTCAAGCGAAAGGAAAAAGGAGTGATATTTGGGTCCCC  
ACTGACGGAGGAAGGCATTGCCAGATATACCAACTGATTGAGTATCTACACAAAACTT  
GCGAGTAGAGGGTTTGTAGAGTACCT

## Sequence 251

TGGCGGCCGAGGTACCAGCACAAACCGGGCCAGCCTCCTAAACTGCTCATTTACTGGGCG  
TCTACCCGGGAATCCGGGGTCCCTGACCGATTCACTGGCAGCAGGG

## Sequence 252

AGGTACATTTTACTACGCACCCCTACGCATTCTTTTTCTCACCTCTGTGTGTGTGTGTG  
C  
GTGCACATGCACACACACAAATGGGTGAAACAATTCTCACCATACCAAGAGCCACCGCGC  
CCTGCCGAGAATTTGCATTTCTAACAAGTTCAGGTGATGCTGACACTGCTGGCTCATG  
GAACCACTGCTGTAGTATTTTCAAATTATCCTGATTCTAAGAACCACCTATGACCTGT  
G  
CTGTTTTTCTGTGGTTACTGGCTCATGTACATAAATCTTTTAGGATTCAAACATGT  
T

Table 1

TGTGATATTACTCAGTATTTACATCTTGCTTTTACTGCAGCATGATGGAAAAATTAACC  
A  
CAGGTATATCATAACAAAAAGAACATGAGTTACCATTTTTACAAAGTTCAGATATATT  
T  
AAATTAGCCTATTTAATCTTTTTTTTGGGT  
T  
Sequence 253  
GGGNGGCCGGGCCCGCCCGNCGAGGTACTTTTTTTTTTTTTTTTTCTACCAAGTAG  
CC  
TATTTAGATTTTATTAACAAACACATAGGTAACCGAGTCANAGCTTTGGCTAGGAATGAN  
TTGGAAAAAGAACTGAAGGCATAATTCCACAGGACATTCACAGTTAGTGTGCTAGAAGACA  
NGAGAGGGAAGCAGGGAAGGTGTTTTAAGAAAGCATTTGCGGGCCGGGACAAATGGGA  
AAGGGCCCGGGCTTTCATCGAAATCCCTTGTTTTGCCTTGGATCCACAAATCTTGCTTG  
GGAAAAGGGTGGGGACAAGAAGGAAGNGCCCAAGGGATGGGGAGCCACCCGATCCCAAGA  
CCAAGGAAGTANTTTTTGCCGCTCCCGGGANGGGGGGGCAAATTGGATCCTTTGGAATCCT  
TCAATGGGTGGCCTNGGGGGTAGCTTAAGGGGGCCCGGTGGAATCCTCCTTTCTNGCATT  
TCCGGGGGGCCGGGCNAAATNGCCCAAGGGGGGTACCCTTCGGGCCCGCTTCTAAGAAACC  
TAGGGNNGGGGATTCCCCCGGGGCTTGCANNGGAAATTTGGAATATCAAAGCCTTAA  
TCGGATACCCGGCGNACCTTCGAGGGGGGGGGGGGGGCCCGGTACCCAAGCTTTTTGGG  
T  
Sequence 254  
CTCACCGCGGTGGCGGNCGAGGTACTCATGGNTGCTGNAAATCATGGCACGCCCCGTTCTG  
CAGGGNTNTGCTTAGCCAGGCTCCTNTGAGATCTGGCTATTNTGNCTTGTTGATNNTCAG  
TCCCCGNGTACCTGCCCGGG  
Sequence 255  
CTCCCCGCGGTGGCGGCCGAGGTACGCGGGGATTGTGTGCAAAATCAGAGGGGGGTGCAA  
AGATCCTGATTTTTAGGAGTTCAAGCGACAATGGCAGCCCAATACGGCAGTATGAGCTT  
CAACCCAGCACACCAGGGGCCAGTTATGGGCTGGAAGGCAAGAGCCAGAAATCCCA  
ATTGAGAATTGTGTTAGTGGGTAAACCGGAGCAGGAAAAAGTGCAACAGGAAACAGCAT  
CCTTGCCCGGAAAGTGTTTCATTCTGGCACTGCAGCAAAATCCATTACCAAGAAGTGTA  
GAAACGCAGCAGCTCATGGAAGGAAACAGAACTTGTCGTAGTTGACACACCAGGCATTTT  
Sequence 256  
ANCGCACACCACACNTCTGATTAATNTTTTTGNATTTAAANNTTTAGGTGGGGCTNCACC  
ATGTTGCCCAGACTGGTNTTGAACCTCTGAGCTTAAGCAATCCACCTGCCTCGGCCTCCC  
AAAGNGTTGGGATCACAGGCGTGAGCCACCGCATCCGGCCTCATGTTCTTTTTTATTAA  
GAGAGAAATCAACTATTCAGGACCGGCCCCCACCTTCTCAGGAGTCATTTCTGTTCCG  
CACAGGCCTGCTGAACTGGGTGCTTTATATAGGGNANAGGGGGCCTCATTTTTNGTTCCC  
CTGNCCCNCAAGCNTTANGGGGCAAAAANAAACCATNCCAANAATTTGNAAAGGGNNT  
TTTTTTTTTTNAAAATNNGGNNNGGGGGGGGGCCCCCTCNCCTTGNNGTGGGNGGNNTT  
TNCNGGNGNNAAAAAAAAAAAAAAAAAAAA  
Sequence 257  
AGCTCCCCGCGGTGGCGGCCGAGGTACTCTGACTTGCAGGGCCCAAGACCGGCCTTGCGA  
GCGTCGTTGGCTGATGGGAGTAGAAGCCACAGAGAGTCTTCTCTTGGAGGTACAGTCAA  
TTCTGAGGTTTGGGCGTCATAGACTAAACCCAGAAAACAGAACATTGGGAAGTCTTCGGA  
ATATTCTCTATCTTCTTACCAACGAGTAAGACCGTTTTG  
Sequence 258  
GGCCACGTGACCGACGCCAACATNGCGCGCCAGTGCGCTCCACCTGNTTTTCCGCAGA  
GGTTCTCATAGAATTTCTTTCACCACTCAATCATATCTACTNACACAAGCAGTCAAG  
C

Table 1

AGTCAACAAAGAAGAAATTTCTTTTTTCGGAGACAAAGAGATATTTACACAGTATAGTT  
TTGCCGGCTGCAGTTTCTTCAGCTCATCCGGTTCCTAAGCACATAAAGAAGCCAGACTAT  
GTGACGACAGGCATTGTACCTGCCCCGGCGGCCG  
G

Sequence 259

GGTGGCGGCCGGCGGGAGGCTGACGAGAGCCCGGGAGGCGTTAGCGAAGGAAGAGAAAAA  
CCGAAGACGAAGCCACTACAGCCCCGCGTACCT

Sequence 260

GGAGCATAAAGNTGTAAAGCCTGGGTGTGCCCTAATGAGGTGAGCCTAACTTCACATTTA  
ATTGCGTTGCGCTCACTTGNACCGCTTTCAGTCGGGGNAAACCTGTCCGTGCCAGNC  
TGGNATTAAATGGAAATCNGGCTCAAACGNCGCCGGGGAGAGGAGGGCCGGGTTTGCCG  
GTATTGNGGGCGGCTTCTTCCGCCTTTTCTTCGGCTTCAACTTGAACCTCCGCTTGC  
GC

TTCGGGGTNCGGTTTCNNGGCTTGNCGGGGCGNAGGCCGGGTAAATNCAGCCTTCAACTTC  
AAAAGGGCNGGGGTAAANTAACNNGGTTTATTCCCCACCAGGAAATTCAAGGGGGGAATA  
NACCGCCANGGGGAAAANGAAACCATGNTGGAGCCAAAAAAGG

Sequence 261

TGTGTTGAAAAATTGTTATCINNCTTCACAAATTCACACAACATACCGANGCCCGGNNNA  
GTCATAAAGTGTAAGGCCCTGGGGTGCCCTAATGTAGTGAGCTAACCTCACATTAATTG  
CGTTGNGCTCACATGCCCGCTTTTCCAAGTCCGG

Sequence 262

GGGCGGCCGAGGTACCCGATAGAACATGGCATCATCACCAACTGGGACGACATGGAAAAAG  
ATCTGGCACCCTCTTTCTACAATGAGCTTCGTGTTGCCCTGAAGAGCATCCCACCCTG  
CTCACGGAGGCACCCCTGAACCCNAAGGCCAACCAGGGAGAAAATGACTTCAAATTATTGT  
TTGAGACTTTTCAAATGTCCANGCCCATGTATGTGGCTTATCCAGGCCGGTCGCCTGTC  
TTCTCTTATGCCTCTGGNACGCACATCCTGGCATCTGAGCCTGGAATCTTGAGATNNGG  
TGTTCACTCCACAAATTGTTCCCCATTCTTATNGAGGGGGGCTATTGCNCTTGCCCCC  
ATGNCCNATCATTGNCNTTCTNNGATTCTGGCCTGGCCCGANGAATCTTCACTTGAATA  
CNCTTCATTGGAAANNATCCNTGGACCTGGAANGCGTGGGGCCTAATTTCCCTTTCCGT  
TTACCTAACCTGGCTTGNAAGCCGNTGGAGGAATTGGTTCNCGGGGGACCAATTCAAAA  
GGAAGAAAANCTGG

Sequence 263

CTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTGCAGCCGTTTTT  
C  
TACTAGAAGCTAGGCNGAAAGAGTTGTTACTCANATTTCTTGAACCTTGAGACGTCAAAG  
GTGAGACGCCAGCCAAGGAGAAGGGATGGTCAGGGACCTGCCCG

Sequence 264

CGTGCGGATCTTCTTTTNGGGCTTCCTTCANGGGGTCAANAAAACCTTCTNNGCC  
TTTAAAGCCTTCGCTTTGGCTTCAGCTTTAGGAGGGGCAGGAGCTTCNCCTTCGANNTC  
GGCGCCATCTTGNGAAAAGCCCCGCGNACCT

Sequence 265

AGCNNCCCGCGGTGGCGNTNGCCNNGGCANCCCGCGGGGGTGGAAACCTCTTCAGCATTN  
GCTTNNNNTCAGGGGGCTAAAAAACCCANCAACCGGGACCCAGCTTTTCAAGACTGCAG  
GGNAACAGCCATCATGAGNGAGGGCACCAAGAATTCCCTGGAGAAAATCCTTCACAGCT  
GAAATGCCATTTACCNGGAATTTATTCAAGGAAGACAGNGGCTNNTNNGGANCNGGGG  
ATAGAGNCGCAACCAGGGNGAAANNTTAAACACNGAGNNCAAAGNNGNCGNNGGNNCCN  
CGGCCGCTCTAGAACCAGGGGACCCCGGGCCCGCAGGGAANNCCGANANCAAAGCCNAA  
NCGAAACCCGGCNACNNCGAGGGGGGGGCCCGGACCCAGCNNNNNGNCCCCCNAA  
GGGNGGGGNAANGNCGCCNNGGCGAAANCAAGGGGCAAAGGCNNGNNCCNNGGGG  
NAAANGGGNANNCCGNNCACAANNCCNCACAACAACCAAGCCCGGGAGGCANAAAAGG

Table 1

GAAAAGCCCN

Sequence 266

AGGTACTTTTCTAGGTATTGCTGGGCAAGATCCTTGTGGAGTCCTCCTCTTTTGCTG  
CC  
CCACTCAGAGGATAGGCAGAGCAGACTGGCAGACACAACAGCACAAGGAATGCAAGATGC  
ATCATTCTCACTGCCCTTACCTTCTTTGTCTACTGGGCTTCTCCCCGCGTACCTGCCC  
GG  
GCGGNCGNTCGAGCCGCCGGGCAGGTACTACCTGNACCAACTTTTTTCATTTGGGCATCAC  
AAAGACGAGTCTTCTGATGTTCTATAAGCAATATGNTTATATGAAAGNCAGAAGTTTAGC  
GAAAATTCGGCCTAAACAGNAATAAATGAAAATGGANTGGAAATCAAAGNNTTAAATAG  
AACANGAAGGCNNGGACACCGNGGNTCACGCCTNGNANNCCCAGCACT  
T

Sequence 267

GCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTACCTCATTTTCTACCAATCATT  
TTAAGAGAATTTGGTTGTATTTCAAAGAACAAAACACAAATTTCTGTCTGCTGTTTT  
A  
TTTTAGCGGTGGTTCGCGGCCGAGGTACGGATACAATTCCGCTGAGTTAGATTCCAAATTC  
TAACCTCTCCATCACACGCCCCAGAAAGGACAGTAGCCAGCTTCTCTGGATGCTTTGCCA  
AGCAATTGACTCCATCACGGTGACCATCCAGCGAAGCAAGGAATGGTTTTGCAAATACTC  
GTTCCAGTTTGGTAGCATTTAAAGCTCTTATATATTCTCGTGGGACCTCAAAGGATG  
TA  
AAGCAGGATCATAGTTTCTTGAACTCTCTGTAAGTCCAACCTTGGTTTCGCGGACATAAT  
TGTCGGGATTCGGCTCAGCATCTTCACCTTCATCTCGGTTGCTCTTC

Sequence 268

NATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATTTATATGAAAGTCCTCACTTTCAGA  
AGCAGAAAAGGAGTAAGTAGATGGGCATTTTCTATACCAGCTAAGGCTTTAAACATAACA  
ACGTCTACTGAACTATTTTCTACTTACTTTGACTGAATAAGCCAGTGAGATCGTGACTG  
C  
AAGTGGAAAGACCTTCTGGCACTGCGACCACTAAACTGTAACCTCAATAATGAAGAACTT  
CACAAAGTATTGTATATAAATTGGTGTGCACTCAGCAAGCCATGGTCTTTTCTGAACCCA  
GAAGGTGTCAATGACAAAATATAACTAGAAATGATAACTGTGATGGCAGGCATCAACAG  
ACCTTTCAGAATAGAAATGAAAGAAAAATGTGATTATTAATTTCCAGACACTAACCCTT  
GACAGATATAAATTAACACTGTAAAGAGTTATAACTTGCTTGATAGTATTGAATTTCT  
C  
TGAGAAATTACTTCTTTCTTGACCTTATAACTTGACATTGTCAGATTTAATTTTT

Sequence 269

ATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGATAGTGGAGGCACTGAAAGACCA  
GCAGAGGCATAAGGTTTCGGGAAGAGGTTGTTACCGTGGGCAACTCTGTCAACGAAGGCTT  
GAACCAACCTCGAGCGGCCGCCCGGGCAGGTACAGATGCACAGGAGGCCATAGGGTTTAG  
GCAAAGGGGAGCACAAAAGTTGAAGATGAGGCGCTGCCACCAATGCTGGGACTTCAGGCC  
AGGGGCAGGAGCTGAGGAAGCCACAAGGGAGGACATTTTCTGCAGTTGCTGAACCACTAG  
CAACCAGGTCTGAGAAAGCCCTCTCTTGTGGAAGAATAACAGCCAGGAGGAAAAGCTTT  
TCATTCTGCAAAGCTGGGGCAGAAAGTTCTTNTTTGAATCCCGCTACCTCGGCCCGNTC  
TAGAACTANTGGATTCCCCCGGGCTGGAGGAATTC

Sequence 270

GTCTTCGGNTTTTCTCTTCTTTTCCAGGGCCTCCAANCCCTCGTCAGCCTCCCCG

Sequence 271

GGGAGGCGNNAAGCAAGGAAGAGANTNTTCGANGACGAAGAAAACCCAGCGCCCCCAGC  
NACCT

Sequence 272

TTGGAGCTCCCCGCGGTGGCGGCCGAGTCCCACAGTTAGCTGCAGCAAAACGCAGGCTGC

Table 1

CTCAGGGAAAGGAGCCTGGGTTGATTAACCTTGTTGTGTCAATGTCCCACCCGTCCCAGGTA  
ACATTTTGCCCCCTGAGGTCCGGGGTAATTTAATGGCTGCTGGACAAAACCTCCAAAGTT  
CTTGAAAGATCAGAAATGATAGCTACCTGGAGTCCAGCTGTACGGCACTTGGCGTAAAGC  
CGCTTCCCTCAAGAGTAAC TACAATCTTCCCATGCACAAGATGATTAATACAGATCTTAG  
CAGAATCTTGAAAAGCCCAGGAGATCCAAAGAGCCCTTCGAGCACCACGCAAGAAGATCC  
ATCGCAGAGTCCTAAAGAAGAACCCTGAAAACTTGAGAATCATGTTGAAGCTAAACC  
CATATTGCAAAGACCATGCGCCGGAACACCATTCTTCGCCAGGCCAGGAATCACAAAGCTC  
CGGGTGGATAAGGCAGCTGCTGCANCANCGGCACTACAAGCCCAATCAATGAGAAGGCCG  
GCGGTTGCAGGCAAGAAGCCCTGTGGTAGGTAANAAGGG

Sequence 273

TNTTAGGGNCAAACACGGCCCCAGCCCCGCGNCCCAGNCNGNGCGAANGATTTTTTCAGGG  
NGACAAAAACCCAGGNCACCCACCTGCCCG

Sequence 274

GCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCGCGTCGATGCTATGCGCTCAGTTC  
TAGTCAGAATAATCTTGCTCATCTCCAGCTCCCCCTGTTCCACCAAGGCAGAATTCAAG  
CCCTCATCTGCCAAAAC TACCACCAAAGACTTACAAACGGGAGCTTTCGCACCCCCCATT  
GTACGCGGGGGAGGAGCCTGAGGAAGAGGGCGGCGACGGTGGTGGTGACTGAGCGGAGCC  
CGGTGACAGGATGTTGGTGTGGTATTAGGAGATCTGCACATCCCACACCGGTGCAACAG  
TTTGCCAGCTAAATTCAAAAAC TCTGGTGCCAGGAAAAATT CAGCACATTCTCTGCAC  
AGGAAACCTTTGCA

Sequence 275

CAGCGAGCACGCGTNTTCCGCAACCCGAAACNCCTTACAGGAGTTTAANACNCANCCC  
AACGGGGAGAGNGGGGGAACATGANGACAGANNNGGGGGAANGAAATGGNACCTCGG  
CCGCTCTAGAACTA

Sequence 276

AGGTACGTTCTATTCTGCTCCTATTAGGTCCTTCTCACCGCACCGGCCCTCGGTGATT  
ACGCCTCTCCAGTTCTGCTGGGGACGTTCTAGCCTCGCCCCANCCGCGTCGATCTTTATG  
TTATACCGTCACTCCCAGTGCCCTAATGGAAC TATCCCTCCACTACTCCCCCTGGTTCTA  
CCCGGCTCCAGAGCCTCTCCCGGCCCACTAATTTATTCCCAAATTCTAGGCCCGGCCCA  
TCAAGCCCTCCCCGCGTACCTGCCCG

Sequence 277

GACTCCCCGCGGTGGCGGCCGAGGTACGCGGGGGAGCGGGCCCTACCGTGTGCGCAGAAA  
GTGGAGGCGCTTGCTTTCAGCTTGTGGGAAATCCC GAAGATGGCCAAAGACAAC TCAACT  
GTTTCGNTGCTTCAGGGCCTGCTGATTTTGGAAATGTGATTATTGGTTGTTGCGGCAT  
TG  
CCTGCTGCGGAGTGCATCTTCTTTGTATCTGACCAACACAGCCTCTACCCACTGCTTGAA  
GCCACCGACAACGATGACATCTATGGGG

Sequence 278

TTCGCCCGGGCAGGTACTTTTCATCCATAAAGGCCTGCAGCTGTTTCACTGATCCTTGCA  
TTCATCCATCACCACCTCCATACAGTCAAAGACTTTGCTCTGGTTCTGTAATATTTTCT  
G  
GTAGTCAGGTTTTGTATTAAGAAC TTCATTCTGAGAAGACCCAAGATATGTCATAGGTTT  
CACTTTGACCTCAGTAATTTTGGCCTCAGTTGATCCTCTGGACAATATCTCTTAGCCT  
C  
CTGCTGGTAGTGAGGCAAGAGCTGATCCCAAGTCTGACGTTCTAAAGAAAACTTTGTTAT  
GTATTCTTTCATCTCAGCCACAGATGCTTCCAAAGAAAAATCTGATGCTTTTCCATTG  
A  
ATCTTCAAACATTTTTGNAGAGTTCCATCAGTTTCCAGGCCGTCTGCAAAATGTTTCA  
A  
TTCTTCAGAAAGAGAAGATGCTTTGGCTCTAAAAC TTTCAAGACTGAAGCCCTTAGTGGC

Table 1

CCTTANGAAAGGGT

Sequence 279

CACTGTTCTTTCTTTCTAATAAACTTTCTTTTTCGAACCTATACTGTCTTCTGTAAATT  
CTTCTTACTACCTATGACCCGTGAGCCAACCACTTTCCGATGCCAGGGTTCTGACACCT  
CACCTGGCATAATATAAAGTGTTTTTTTTTATACCTTCCACTTGGAAGACTACAG  
A  
GGAATCTTGCNCTGCATAGTTCAACTAAAAAGAGAAGAGTTAATTACCTGAAAAGCAAG  
AGAAAAACAAGAAGGGGTAAATTTTGAACCAAGGGAAATCATTTAAGAAAGTGTCTGGTATT  
TTTCAAATTTCTGTCAGTTGTTACATTTGTCTATAAGTAAATGTTTAGGAATAAAGGATG  
G  
AGACATGCTTATTTTATTTAACTCCCCAAAATTAAAAANNAAAAAAAAAAAAAAAAAAAAA  
AGTCCCTGCCCGGGCGCGCTCGAGATAAC

Sequence 280

CCGCGGTGGCGGCCGGAGTNATGCCATCTGCAGGTTTTGTGATCTGCAATGATTCTTCCC  
TTCGAGGTCAGCCCATTATCTTTAATCCTGACTTTTTTGTGGAGAACTCCGACATGA  
GA  
AACCTGAGATTTTCACTGAGTTGGTGGTCAGCAATATCACAAGGCTCATCGATTACCTG  
GAACTGAGTTGGCTCAGCTGATGGGGGAAGTGGACCTTAAGTTGCCTGGCGGGGCTGGCC  
CAGCATCAGGATTCTTCCGGTCTCTCATGTCTCTCAAGCGAAAGGAAAAAGGAGTGATAC  
TTGGGTCCCCACTGACGGAGGAAGGCATTGCCAGATATACCAACTGATTGAGTATCTAC  
ACAAAAACTTGCGAGTAGAGGGTTTGTTTAGAGTACCT

Sequence 281

GGGGGGAGACATGTGGAGGTCCCAGCAGAGGCCAACCTGTGTCTCTTCATCTCCCTGGGA  
AGGGTGCCCCCGAAGTGAAAGAGATGGCCTGGTGGAAAGCCTGGGAGAAATGAATAAACAG  
ACTAGGGTGAAATCCATACAATGGGAATGGTAGCAGACAATAAAAAAGAAATGAACTATT  
GATGCCCCCTACTGCACAGCAGAAGCTCTGAATCGTGTTCCTGAATGAAAGAAGTCAGAG  
ATGAAAAGATGGGCCAGGAGTCCAGTTTCTGGAAGGCCAAGAATCGAAGTAGCAAGCTGC  
AAGCCGTTTTCCAGACAAGCNGNGATGTGGGGATGCCACAAGAATTCAGGACTGGAGGGG

Sequence 282

CGCGGTGGCGGCCGAGGTACTTNTNACTGCCAGAGGCTGTGACGNTGTGTATTTCNGAGAG  
CAGCCTTNCCTGCANTGATNCCATCCCGCAGGAATCNAANTTCTCCCTNGATACNNGCA  
CTCTGCCTGTCTTCCACNTTCCCTTTCNCATTTGCANTACACNGTTCACCACNCT  
GC  
CCTTAAGGCTTGGAACCTCACNCCACCTTCAAGCNTCCCATGGTTCTCTGCCACTCATGG  
GTCNNGGNAACCAGGGTGGACAAGGGGGCCAGAATCAAAGNCGTTCTTTCACCCCCACCC  
ATGGGCCAAGGGGAATGGGGGCCCCAGNNNGGGTTCCCCAAAGGCANCAAGNAAAAANNA  
ACTTGANACTTGGAAGTGGANGGGCCATTGGNAGGCAAGNCCTNGAAAANGCCANAAA  
AGGGGAGGGGNCNGNAACCACCNCAAAAAAGTTTGGANGGCCAGNAAAAGGGANANNGG  
GCCCCAGGGGAAAAAACCTTTTGGGCCCATTTTTTTTCCAATTTTCAATTGGGCCT  
TG

GGCCANTAATTTCAAAGGGGAAGGAATTANCCTTGGGNNAAGGGGNTNGGGGGGGG

Sequence 283

TGGCNGCCGAGGTACAGNATTGAAATGGATCTGTCTTTGGTAAAGATCAGCCTATAATT  
CTTGTGCTGTTGGATATCACCCCATGATGGGTGTCCTGGACGGTGTCTAATGGAACG  
CAAGACTGTGTCCTTCCCCTCCTGAAAAGATGTCATCGCCNACCAGATATAAGAAAGACG  
GTTTGCCCTTTTCAAAAAGACCCTGGGAATGGTGGGCCCATTTCTTTGGTNGGGNCTTCC  
CAATGGCNCAAAGNAAAGGGGAAANGGCCNATTGTGAAGAAGGAANANAGTATTTTTACC  
TNGAAAAAGGCCATAAATGGTGNANANAAATTCTTCCANAAATCCNCAAGNNGGTTGG  
CANGCCCTNTAGTANTAAANTANCGNCCCAAAGGAAAGGNTCANGTTTAAAAGGGGT  
TATTTGTGTTGTTNGGGGTAAAATCNCAAGCCCCAAATACCCCAAACCTGNCCCCGTGGAA

Table 1

CTTGGCTTTTCNCAAAGGTTTCNAGGCTTTCNATTCTCAATCCCCCCCCAAAAGGGGAGG  
AAACCNNTTCC  
Sequence 284  
GTGGCGGCCGCCCCGGGCAGGTACGCGGGGGCTCTAAGCTGCAGCAAGAGAACTGTGTGT  
GAGGGGAAGAGGCCTGTTTCGCTGTCGGGTCTCTAGTTCTTGACGCTCTTTAAGAGTCT  
GCACTGGAGGAACTCCTGCCATTACCAAGCCTNCCCTTTCTTTGCCAGAAAGGGGAGGGG  
GGAAAAACAATNACAATTTTATTTCCATTGGCCCAAGTNCCTGTNTNGCCAATTGNCAAG  
TGCTTTTTTTGGGCCNTTNTCTTACCCCTTTGCCAAACCAAGAAAACNAAATNTTG  
N  
CNACNCAAANCTTCCCTTTAGTTAGNCGCGGAATNTCNCCGCCCCCACAAGTAAGAAAAGT  
TCNCNTGGNNAAGNCCCACCAAGANCCTTTTTTTTGGCTTTTTTGCCAATTTGGTGA  
AG  
GGAAG  
Sequence 285  
TGGCGGCCGAGGTACTAGGTCCCAAATGTTTCAACCGATTTTACCCTATGTTTTCAAGGG  
TATTATAGAAGGGGAGAGGTATCCTGTAGTGATGTCCACGTATCTTGGAGTTATGGGTG  
AGTTCTACTACAAAACACTAGTTTTTTTCTTCACTTACTTAATGAGATGGCCCATAAAT  
TAATCAGGAGATGGACCAGCTTTTGGGAAATATGATTGAAATGTGGGTTTGATCGAATGG  
ACAACATTACCCAGCCTGAAAGAAGAAAACTTTCAGCTTTGGCTTTGCTCTCTCTTCTGC  
CATCTGATAATAGTGTTATCCAAGATAAATTCTGTGGGATTATAAACATTTAGTAGAA  
G  
GCCTGCATGATGTCATGACGGGAAGATCCTGAAACAGGAAACTTATAAAGACTGTATGTT  
GGATGGTCTCATCTTGAGGGAACCCAAAAGTAACCAGGAAGATGAATGAAACCACCCAC  
Sequence 286  
GCGGCCGAGTACCCGATAGAACATGGCATCATCACCAACTGGGACGACATGGAAAAGATC  
TGGCACCACTCTTTCTACAATGAGCTTCGTGTTGCCCTGAAGAGCATCCCACCCTGCTC  
ACGGAGGCACCCCTGAACCCCAANGGCCCAACCCGGGANGAAAAATGAACTTCAAAATTA  
TTGTTTTTGGAGAACTTTCAAATTGGTCCCCAGGCCCATGGTATTGTGGGCCCTTATC  
CC  
AAGGCCGGGTNGCCTGGTCTTCTCTTATTGCCCTTNTGGGGACCGCCACAAACNTGGGG  
CAATTNGTNGGCCNTGGGAACCTTCTGGGAAAGAATTNGGGTNGGTCCAACCCCCAACAA  
AATGGNTCCCCCAATTCTTATTGGAAGGGGGGCCTTAATTGGCCCCTTTGGCCCCC  
CAAATGGCCCCANTCAATTGGNCCGTTTNTGGGGAATNCCTTGGGCCTTGGGGCCCCGG  
AAGNAATTCTTCAACCTTGGAACTTAACCCCTTCAATNGGAAAAGAATTCCCTTGGACCT  
TGGAAGGCCGGTGGGGCCCTAATTTCCCCTTTTCGGNTTTAACNTAACCTTGGCTTGGNAA  
GCCGTTGGGAANGNAAATTTGGTNCCCCGGGGGAACCATTTCAAAGGGGGAGGAAAAAANC  
TNGNGGTTTTAATTGTTAAAGCCCTTCTTGGGNACTTTTTTGAACAAAA  
Sequence 287  
CTCCCCGCGGTGGCGGCCGAAAACCTGATCAGACTGTCTCAGATCNAGGAAAAGATGGCCA  
GAGAGAAGCTGGAAGAAATAGATTGGGTGACATTTGGGGTTATATTGAAGAAGGTTACGC  
CACAGAGTGTGAATAGTGGAAAAACCTTACGATATGGAACTGAATGATCTTCGNGACC  
TGACACANTGTGTGTCCTTGNTCTTATTTGGAGAAGTTCACANAGCGCTCTGGAAGACGG  
AGCAGGGGACTGTGATCGGATCCTCAATGCCAACCCCATGAAGCCCAAGGATGGTTCA  
GAGGAGGTGTGNTATCTATCGATCATCTCAGAAGGTCTTAATTATGGGTGAAGCTCTT  
GACCTGGGAACCTGTAAAGCCAAGAAGAAGTGGAGAAGCCGTGCACGCAGACTGTGAA  
TTTTGCGTGAAGTGTGAGTACCTCCGGCCGCTCTAGAACTANTTGGATCCCCCG  
Sequence 288  
GCCAAACGCTTCCGCAAAGCTCAGTGTCCCATTTGTGGAGCGCCTCACTAACTCCATGATG  
ATGCA  
Sequence 289

Table 1

GGACAGACTGGCTCATNGAAGACATTNACTNTGATGGGACCATTNTAANCNGATAATTTT  
TCTCATAACCTGAGAGGAGTNATCCCACGAAGTTTNGAATNTTTGTTTTCTTAATTGA  
T  
CGTGAAAAAGAAAAGGCTGGAGCTGGAAAGAGTTTCCTTTGTAAGTGTTCTTTATTGAA  
ATCTATAACGAGCAGATATATGATCTACTGGACTCTGCATCGGCTGGA

Sequence 290

TGGCGGCCGCGCCGGGCAGGTACGCGGGGCGCCGTAGGAGCCTCTCTCCCTACTGCTGCTAC  
ACAAAGACCCTGAGACTGACCTGCAGGAACCTNAAACCATGAAGAGCCTGATCCTTCTTGC  
CNTCCTGGCCGCTTANCGGAAGTAACTTTGTGTTATGAAATCACATGAAAAGCCATTGG  
GAAATCTTTATGGAACTTAATTCNCCTTTTNAATTTAAANCCAGGGNAAGNNAATATGT  
N

AAAAATTCNCCTTTTTTATTANNTCCCCCTCTNCAATCCAAGNANGNATGGGGGAAGCNA  
GCNTAAACCNCCTNCNNATNANANAGNTNGGGTTTCTAAATAAGNAANCCTTTCTTTCTA  
AANANGNNCNTNGNGTTCCACCGATATCTTTTATATATTNNGGGATTNANCCCCCNCNTN  
TGNNAGNTTTATNTACTTTNACNNANGCATTTTTTTTTNGTGNAAAAAACCCGNCNT  
T

AACCNACCCCAANTNGGGGTTTTTATATTGGGGGNANTNACCAAAAATGGCCTNNGGCCCT  
TNTATNANAAATCNGCGCTTTNNCNTTTATAACNAGGGAAAAAAGCCCCCCCCCANNGG  
GGGNANNNCCNAAATATNTNTAANATNNTTGGNNGGGGGAAAAA

Sequence 291

GAGCCCGGGTGGCGGCCGCGGCAGGTACTTTTTTTTTTTTTTTTTTTTGGGGGAGTTA  
AATAAAATAAGCATGTCTCCATCCTTTATTCTAAACATTTACTTATGACAAATGTANCA  
ACTGACAGAAATTTGAAAAATACCAGACACTTCTTAAATGATTTCCCTTGGGTCAAAAT  
T

TACCCCTTCTTGTTTTCTCTTGCTTTTCAGGTAATTAACCTTCTCTTTTAGTTTGAAC  
TATGCAGTGCAAGATTCTCTGTAGTCTTCCAAAGTGGAAGGGTATAAAAAAACACTT  
TATATTATGCCAGGTGAGGTGTCAGAACCTGGCATCGGAAAGTGGTTGGCTCACGGGT  
ATAGNGTAGTAAGAAGAATTTACCGAAGACAGTATTNGGTTCCGAAAAAGAAAGTTTAA  
T

Sequence 292

CGGTGGCGGCGAGGACTTTTTTTTTTTTTTTTTTTTTTTTNGCTTGTTTTATCTTTT  
GGCCTTTTGGTGACTTGGTGCTCCTTGGAGTCACTGGAGTTCTACTTTGAATCCCACT  
CT  
GACATCAATCGACTGCCTTAATTCCTGGTCCAGCTGCCCGACCCTGACTCTCTNCCGCTC  
TTTTCTCAGGTGCAANGTTTNCCTTAAGATCACGCTGACGTCGGACCCACGGCTGCCGT  
ACCTGCCCCG

Sequence 293

GTGGCGGCCGCGCCGGCCGGACGCGGGGACATTCGAGTGGGGATTAAGAGAAGGAAGGCT  
GCCTTGCTGGAGCTGTGTGGTCTTCTCCAAGTGAGAGTCGCAGGCAATAGAACTACTTTG  
CTTTTGGAGGAAAAGGAGGAATTCATTTTNNAGCAAGACACAAAGAAAAGCAGTTTTTTT  
CANGTGCTGACGGCCACCCACCATCATCTAAAGAAGATAAACTTGGCAAATGACATGCAN  
GTTCTTCAAGGCANAATAATTGCAGAAAATCTTCAAAGGACCCTATCTGCAGATGTTCTG  
AATACCTCTGAGAATAGAGATTGATTATTCNACCAGGATACCTAATTCAAGAACTCCAGA  
AATCAGGAGACGGAGACATTTTGGTCANGNTTTCGAACATTGGACCAAATACA

Sequence 294

GCGGTGGCGGCCGCGCCGGGCAGGTACGCGGGAGGCACATTCTTTTCTACGTGAAGAGTTN  
TGTAACCTGAACCTTTGTTTTCAGNNCCGGCTCCAGCCATCCTCGGGTAGCTTGCCAATAG  
ATGAATCCCACTCGTTTGACCCATGACGCTCCTTCTTTGCATNNCTCCCTCTTTCCCC  
AC  
AGCAGNGCATGTCCACCATAACCACTGAGAGTCTGTGGAATCTAATTTTCTGTNATACTT



Table 1

CTTTCCTTACACTCATTTTCCTGTCTTTATTATGATAGTCTAACTTTTTCTCCTCAAAGG  
TATAGCTGCCTTGCTTTCATGAAAACACACTTTCCTATTGTGATTTATCAGAGGCCTTT  
C  
CATATCTCAGCCACTATGCTATGACAGATTTTATAATTAATA  
Sequence 295  
CNCGCGGTGGCGGCCGGAAGAGCAACCGAGATGAAGGTGAAGATGCTGAGCCCGGAATCC  
GGACAATTATGTCCGCGAAACCAAGTTGGACTTACAGAGAGTTCCAAGAACTATGATCC  
TGCTTTACATCCTTTTGAGGTCCCACGAGAATATATAAAGAGCTTTAAATGCTACCAAAC  
TGGAACGAGTATTTGCAAAACCATTCCTTGCTTCGCTGGATGGTCACCGTGATGGAGTCA  
ATTGCTTGGCAAAGCATCCAGAGAAGCTGGCTACTGTCTTTCTGGGGCGTGTGATGGTA  
GAGGTTAGAAATTTGAATCTAACTCAGCGGAATTGTATCCGACCCT  
Sequence 296  
CCGCCGGGCAGGTACGCGGGGCTCCCTTGTGAGTAGACTATGCAAAGAAAAAGTGGGCCA  
CCATATCTGGAACTACAGTCTATGCTTTGAAGCGCAAAAGGGAATAAACATTTAAAGAC  
TCCCCCGGGGACCTGGAGGATGGACTTTTCCATGGTGGGCCGGAGCAGCAGCTTACAATG  
AAAAATCAGAGACTGGTGCTCTTGGAGAAAATATAGTTGGCAAANTCCCATTAACCACA  
ATGACTTCAAATTTTAAAAA  
Sequence 297  
GCGGCCCGCCGGGCAGGTACGCGGGGGGAGGGCTCCGAAGTCTGGTTTTGGCGGGAATTG  
AAACCGCCGCTGAAGCCAACAAGAATTTGAGAAGTGTAAATACCAAGCCTTGAAAGGGAC  
CATGGTGC GGCCGTGTGAGACATAAGAAAGCCAGTCAAATCTCACAGTTTGACCACTCTG  
ACAGTGATGATGATTTTGTCTGCAACTTGACCTCGGCCGTTCTAGAACTTANTG  
GA  
TCCCCCGGGCTNGNAGGGAATTTCCANATTTTNAANCCTTTTTNCGGANCCCCCNCNCCN  
CCCCNAANGGGGGGGGGGNCNCNNGCCCCNCNNTTTTTNNTGGCCCCNTTTTTGNNG  
GGGGGGNGAATTTANCNNCCCCNCNCGGGGNAANAAAAATAGGGGGGNAAAANTNTT  
TTNTTNNNGGGGGNAANAAAAATTTTTNTCTCCCCCAAAAAATAAAAAACNCGNCCC  
NCTTCTNTCCCCGNTGNGNNAANNANTATNGNGGTCCCCCNCNNGGGGGGGGGGAN  
ANTTTTTTTTTTNNNAATTTTTTTTT  
Sequence 298  
GTGGCGGCCGAGGTACTCCCCAGCAAATATTCTTTGTTGGCTTGCTTGACTAGATGAGCT  
GCTATAGTAGTCAATCCTGTAGACTTGACCATTGTTTGTCTGAAGAACTGGAATCT  
GT  
CGCTCGCCCTGAGCACTGTATTTATTTCCCTTACTCANTCCCCAGGGGACTTCTTCAA  
GTAAGCCGACANACTTCTTGCNNGCCCCGCNCGCNCANTCTTTCCCGNCCGGCTTCTT  
AGTAACTTAGGTTGGGAATCNCNCNCGTGGGCCTGGCNAGGGGAAATTTTCGGAATTA  
TTCAAAAGGCCTTTATTGNGAATAACCCGTTTCNNACCCCTTTCNCAAGNNGGGGGGGGG  
CACCCCGNGTTAACCCCAAGGACNTNTNTTGGTGTNCCCCCTTTTAAGTTGGAAGGG  
GGGTTTTAAAAATATTGGCCGACCGNCTTTTGGGTCCGNTTANAATTTCAATTGGGGG  
GNTCAATTAAGGNCCTTGNTTTATTCCTTNGTNGTTGGAAAAATTTNGTTNTAAAT  
T  
CNCCGNCNTTTCAACNAAAATTTTCCNANNCAACCAAAACCAATTAACCNAAAGNCC  
CCCGNNGGGAAGNCCAATTAATAAAAAANNTTGTTAAAAAANGGCCCTTGNGGGG  
Sequence 299  
TGGCGGCCGAGGTACTTCTGTCTCCAGTTTTCCACTTCAAACCTTCTATCTTCTCAA  
AT  
TGTTTATCCTACCACTCCCAATTAATCTTTCCATTTTCGTCTGCGTTTAGTAAATGCG  
T  
TAACTAGGCTTTAAATGACGCAATTCTCCCTGCGTCATGGGATTTTCAAAGGGTCTTT  
TT  
AATCACCTTCCGGGTTTTAAATCCTCTTTTTTAAAAAGAATCCGTCCTTTCAAAAAAT

Table 1

TATNTTTAAATTCACCCCTTACCAACCTTTTTAAAACCTAAAAACCTTTAAAGGCTTGTTT  
TAAAGGTCCACCCCTTCATTTTTTAAATCTAAAAAAGGCCATTTGGCCCCCTTCTAATT  
T  
GGGNTAATTNAAATTCGGGGGGCCTCTTGTTAGGTACCCTNTTCTCTTCAAATTTTTAT  
C  
CTTTTTTAAAAATTACCATTTTTTTTTACCTTCCCATTTGAAAGGAAAGGCCCTTNCAT  
TCTTTCAAACCCCTTCCCGGTTCAATTGGTTTTTTAAGGAAAAACCCCTTTTTTNNAT  
TTCTTTTTTCCCTTTTCCCTTCCAATGGCCCTTAANCTTTCTTTTCTTNAAGGGT  
GCCTTCCAATTAATTTTTTCTTCTTTAAAAAAAATTCCTTTTA  
Sequence 300  
CGCGGTGGCGGCCGAGGTACTTAAGGTTGACTGGTAATCAGGGTAACCTCTGATACTTAT  
CACACAAGATGGTGCCTCAGCATTTAAATAAATGGAGGTAGGGGAGGGCGTGGTGGTAAC  
ATACTTTTAAACCAGCGATTGCACAGCAAACCAATGCAAGGTATTTCTGACTCCCAAG  
ATTGCCCGTTTCTAAAGAGCAATTCCTTCTGCAGGCAACAGCAAACCTACCTTTCCTTGC  
TAACTGCTTTCAGTAAATCTTGATGGCCTTCGATTCTGGATTGAGACATCTCTTCTCA  
C  
CCTTCTTTTTTCAATTGTAGCAATGATCTCAACACGTG  
GA  
Sequence 301  
TCCCCGCGGTGGCGGCCGAGTGATGCCTCTGCAGTTTTGTGATCTGCAATGATTCTTCC  
CTTCGAGGTCACGCCCATTAATCTTAATCCTGACTTTTTTGTGGAGAACTCCGACAT  
GA  
GAAACCTGAGATTTTCACTGAGTTGGTGGTCAGCAATATCACAAGGCTTCATCNGATTTA  
CCTGGAAGTGAAGTTGGCTCAGCTGATGGGGGAAGTGGACCTTAAGTTGCCTGGCGGGGCT  
GGCCCAGCATCAGGATTCTTCCGGTCTCTCATGTCTCTCAAGCGAAAGGAAAAAGGAGTG  
ATATTTGGGTCCCCACTGACGGAGGAAGGCATTGCCAGATATACCAACTGATTGAGTAT  
CTACAAAAAACTTGCGAGTAGAGGGTTTGTTTAGAGTACCTCGGCCCGCTCTAGAACTA  
GTGGATCCC  
Sequence 302  
TTGGAGCACCCCGCGNGGCGTTTTGGGACGCNCGAACNGCAATGCTTCAGGACCCACA  
GGAGCGACTCTTTAAAGGGACCACAAAANCCGCACAGAGCTGCAAACAACTATACATGAT  
ATAATATTAGAATGTGTGNACCTGCCCCG  
Sequence 303  
GNGGCGTTTTAGGGCGNAACGGCCCCCATCATGGCGGACCCTAGAGAAAGGCTCTTAGG  
GGGACCNAACCCGNNGCCCGAACACAAGGAGANCGACGGCCGCTCTTNAACCAGNGGAG  
C  
Sequence 304  
TCGCCCGAGCTTTCTCTTGTCCATCTTCTCCCGCTGCTGAAATTTCAAGTTGCGGGCGCTG  
TCACCTCAGGACCCCTCCCCCGCGTACGCTGGATAGCCTCCAGGCCAGAAAGAGAGAGT  
AGCGCGAGCACAGCTAAGGCCACGGAGCGAGACATCTCGGCCCGAATGCTGTCAGCTTCA  
GGAATCCCCGCGTACCTGCCCCG  
Sequence 305  
NTTAAGAGCAAAGGCTCATGTTTGCCAAGTCTGTCTTTTGTAAACAAAAACCCAGCAGC  
TTTATCAAGCAGAATTCCACCTGTATTTCTTAAGTGGCAGAGCTGAGTCTCATGGCC  
AC  
CCTTAGCAGGAGTTGGGGAGGTATTTTAAACAAGGCACATTATCATCTCCCCACCCAAA  
GTGGAGCTATTGCTAATGAAAAAGATACAATGAGATGTTTATGAAATTATCTGTAGCTAT  
TAATGTCAGGTTTTTGAAATTTACTGACCTGGAAGAATACTCATAATGCAATGTCAAGT  
G  
AGAAGCAGGACAAAGAACATTTGCAATACAGTTGTATTTATAAAATTTTGT  
Sequence 306

Table 1

NATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGAGGCAGCGGAAAGCTCAGCCC  
ATGTGAGGTGCCTCCTGCCAATCACAGACTACCTTCCCTGGTCCTGGAGGTTCAAAGAA  
TTGCAGGAGGGTAGAAAAGCACCTGGGTGCGGTGCAGACTGCGGAGCGGGCCCTACCGTG  
TGCGCAGAAAGAGGAGGCGCTTGCCCTCAGCTTGTGGGAAATCCCGAAGATGGCCAAAGA  
CAACTCAACTGTTGCTTGCTCCAGGGCCTGCTGATTTTGGAAATGTGATTATTGGT  
TG  
TTGCGGCATTGCCCTGACTGCGGAGTGCATCTTCTTTGTATCTGACCAACACAGCCTCTA  
CCCCTGGTTGAAGCCACCGACAACGATGACATCTATGGGGCTGCCTGGATCGGCATAT  
Sequence 307  
CACCGCGGTGGCGGTTTAGCCCGGCGCNAAATCACCATTATCCCCTTTAGTCACCTCAG  
AGGCTTGTTAATGCTTCTTTGTAATTAGGCTATATCTGGTATCTGTATAATATCTTCA  
G  
TTCTTCTTTACCAGGGTCTTACTCTGTTCTGAAACATGGCACCTCAGGCGGCTCCGGCA  
GCGCTGGACACAGGAACTCCTGGGTCCCCGACTCCGGCTCTCCTNGACCCCTCTTCGG  
TTAACTCCGCTTGTCTCTACAAAATGGCGCCGGAGGTCCCCCGGTACCT  
Sequence 308  
TGGGGNAACCCGCGNGGCGGTCTTGGGNGCAACACGGAACCAAACGAACCGCGGCTGC  
ACCAGCNGNCTTTTTTNGGGGNGCCAAAAACCCGAGCAGCCGAAANCNGGAACNGCCNCA  
GNNGTGTNCCNGCNGAAGAANGNCNANCCAGAGAGGCCAAAGNACCC  
Sequence 309  
CCCGCGGGGGCTTTNGGGGGCAANCGAACCCNCTTAAAGGGNCCNCCNTCTAAAAATNT  
TTACNGGNAGAAANAAAAACCCACCAACCGCTTTTTANTATCGAGNGTCAGAAACCNCTCAC  
AAGATGGNAAAAAAAAAAAAAGAAAAAGAAAAAAACAAAACCAAAACAAAAAACT  
TTACAACCACAGCTAANGCAANNNNNNCCANGGNTCCAGTCAGCTCCAANNCCAAGGGG  
NGCAAAGCCCANNNNNNNCCAAAGCATCCAAANGANAGAGACAGGCCAGGAAANNCTNTAT  
NCTATNGGGAGCAGCANNANGCAGGGGCAGCCAAACACAAAGCNNCAGGACAAAANGGACC  
NGCCCGGG  
Sequence 310  
CACCGNGGACAAGAGCAGGNGGTNCTTGGGGGGNGNAAAACCCGCNCCGCGANGCAAGAG  
GCTCNGCACAACTACTNTNCAGAAGAGCCGGGNGCCNGNCCCGGGAAAAAGAGNGCG  
A  
Sequence 311  
CCTGAGGAAAAGCTCGCACCAGGNGGACGCGGATNNGGTANGGGGGGTAAAAANACCCNCC  
CCAACAAGCCGCGGGGCAAAANGNCCNCGTACNTCGGCCGCTCGAGAAGTAGCGNACCCN  
A  
Sequence 312  
CCCGCGGTGGCGTTTCCNGGCCAGGCACTTGGAGAAAGTATAGCAGCAAACAATGCCTAT  
TTTTNACAGGAAACAGAACANATACCCAGAAAAATGCCCTGGCAATCATCAATCACAGT  
TTTCCAACATCAATAAAGTGTTTAACTCCTCATTTGAAAGATGGTGTTCCTGGATTGAA  
T  
ATTGAAGAATTAATAGAGAACTTCAGTCTGGAATGGTGGTAANGGATCAGATTTGNGAT  
GNGAGAATATCTGACATAATGGATGTATATGAAATGAACTATCCACATTAGCTTCCAAA  
GAAAGCAGGCTACAAGATCTTTTGGAAACAAAACCTCTAGCCCTTGACAGGCTGATAGA  
CTGATTGCTCAGCATCGCTGTCAAAGAACTCAAG  
Sequence 313  
CCGGGCAGGCCCTTAGCATTAGATTGAGTTATGTTGCTAGGAGATNTTTATTCATCAGCT  
GATCATTAAAGCATATGGGGCTTACTTGGCCCCCTATCAATTTGCGTCAAAATAAATTAA  
TTGTAGACCTGTCTTGTATGAAAAAGCAATGTGATAGTCTTTAAATTTATCTTTCTA  
AACAAAGACACAAGTTTACACATTACCCAGCACAGTAACCCCTCTTGGTATTGTTTACCTA  
AAAGGAAGAAGTGTAGGAAAACTGATATAAGTAGAGAGNTTATTTGGG

Table 1

## Sequence 314

GNTTGGAGCTCCCCGCGGTGGCGGTTCGAGGTACGCGGGGGGTCCTGGAGGTTCAAAGAAT  
TGCAGGAGGGTAGNAAAGCACCTGGGTGGGTGCAGACTGCGGAGCGGGCCCTACCGTGT  
GCGCAGAAAGAGGAGGCGCTCAGGAATGCATGAATTGATTAATTAAATGTCGAGAGCTGT  
AGATGGCTTTTCTCAAGGTGCTTCAAGTGCAGAAGCCCAAGTGATTGACCCACACACTTA  
CCTTTGTGTTCTTCCAGAAAATCCTCAGGGAGTGCCTTCAGCTTGTGGGAAATCCCGAA  
GATGGCCAAAGACAACCTCAACTGTTCTGCTTCCAGGGCCTGCTGATTTTGGAAATGT  
GATTATTGGTTGTTGCGGCATTGCCCT

## Sequence 315

CTAAGCATATGGGGCTTACTTGGCCCCCTATCAATTTGCNGTCAAAATAAATTAATT  
GT  
AGACCTGTCTTGTTTTATGAAAAAGCAATGNGATAGTCTTTAAATTTATCTTTCTAAACA  
AGACACAAGTTTACACATTACCCANTTACAGNAACCCCTCTTGGTATTGTTACCTAAA  
A  
GGAAGAAGTGTAGGAAAAACNGATATAAGTAGAGAGTTTATTTGGGCCAAGCATGAGGGT  
TACAACCCAACTGTATGGAGACAAGTTGGCCCTGAACAATACACATTCTTATTAGCAACAG  
NTATAAGTAGGNTTCAAAGAAAAAGAAGAGGCAGNTCCTAA

## Sequence 316

TCGNCCGGGCAGGTACAGAGACCTNCTTACTTACCCCCCTTNTCCTTCGGCTGGAGCTCG  
GCGAGCGAGAGGCGGCCGCTGGCGTTGGAGAGCGACGCGGGCCCCCGCGTAAGCAGTGGN  
AACAACNCAGAGTAACGCGGGAATGAAGAATNTTAGGCGGGTGACCCAGTTTNCACCAT  
GATTAAGGGTNTTACGGAATAAAGGATGATGTCTTCTTAGTGTTCTTGCAATTTG  
GG  
ACAGAATGGAATCTCAGACCTTGTGAAGGTGACTCTGACTTCTGAGGAAGAGGCCCGTTT  
GAAGAAGAGTGCAGATNCACTTTGGGGGATCCAAAAGGA

## Sequence 317

TTTCGCCCCGGGCAGGTACTTGGAGAAAGTATAGCAGCAAACAATGCCTATAGACAACAGG  
AAACAGAACATATACCCAGAAAAATGCCCTGGCAATCATCAAATCACAGTTTTCCAACAT  
CAATAAAGTGTTAACTCCTCATTTGAAAGATGGTGTTCTTGATTGAATATTGAAGAA  
T  
TAATAGAGAACTTCAGTCTGGAATGGTGNTNAAGGATCAGATTTGTGATGTGAGAATAT  
CTGACATAATGGATGTATATGAAATGAACTATCCACATTAGCTTCCAAAGAAAGCAGGC  
TACAAGATCTTTTGAAACAAAACTCTAGCCCTTGACAGGCTGATAGACTGATTGCTC  
AGCATCGCTGTCAAAGAACTCAAGCTGAAACAGA

## Sequence 318

ATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTATTGATGTTGAAGATGAGAAATCT  
CCTCAGACTGAAAGTTGCACTGACAGTGGAGCAGAAAATGAAGGTAGTTGTCACAGTGAT  
CAGATGAGCAACGATTTCTCCAATGATGATGGTGTGATGAAGGAATCTGTCTTGAAACC  
AATAGTGGAAGTGAAGATCTCAAAATCTGGACTTGAAAAGAATTCCTTGATCTATGAA  
CTTTTCTCTGTTATGGTTCATTCTGGGAGCGCTGCTGGTGGTCATTATTATGCATGTAT  
A  
AAGTCATTCAAGTGATGAGCAGTGGTACGGGTGGGAATAGCACTACACTGTTTCATCTAGCC  
TTGTAGAATAAGTCCCAGTGAAGTGAATTCCTGCAGAAATCTCACTGTTAT  
AT

## Sequence 319

ATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTCAAN  
G  
TTCAGTTTCTTTAATGACCCCCATCTCCCTGAAGGGCAGGTGCAGGCAGCTAGGTGATG  
GCAAGAGATGTTCACTTGAAGATCTTGCCCTGATTGAAGGCTTTGCCACATGCTGGAAG  
GCCCCCTCCAGGAAAAAGTACCAGACATCAGCTGCCTCTTCTTCAATTTTCAGCCAAAGAA  
AGGGCACGTTCAAATGAGGTCAGAGTCATATCATACTGCTGGGCATAGAAGCAACACAGC

Table 1

CCCAGATTGTTAAAAAGCTGGCCGTTATAAATGCCCATCTGCAGCAGCCGCCTGTAAAC  
CGGAGAGCTATTTCTGGCTGATCAGAATAGAAGTGGTTG

Sequence 320

ACCCNCAGGAGACGCTCGNAGCCCCCGCGCTNNTCCGGGGNCAGAAAAACCCAAGAAGCG  
GCTCACGCCTTCCAGAGCCACATCATNTNTGGNCGAAANAGAAGCCCAGACNAGAGGAAG  
GNGNAGGAGGCCNGCAGGNACC

Sequence 321

CAAGCGGAGNNAACCGAAGAGGGGNACTTGGGGGGCCAAAAACCCGGACCCAGGAGNNN  
CCNGNGNCCAGCGCNGCCGGTCCGCCNGAGGGGGGCACNCCCCCGCCAAGGCNGGAGNG  
CAGCGGCACAANCCNCGNCACNGCAGCCNNGANANNCCNGGNCNCAGGNGACCAGCACCC  
NTGCTNTTTNTACNGGGAAGNNGCNAAGCNACCNGNCAANANAGCANACAAAANNNGAAACN  
GGGGGNGGNGAAGGANCNNAGAAGNNGGANGCCAGGAAANGGGANGAAGACCAAANGGGC  
CANGNNNCAGAACAGAGAAGACCCCNNGNAA

Sequence 322

CTCCCGNGACGAAAACACAANNNGNTTCTTNCGGGGACAGAAAACCCAGACCCAGCTNCA  
GGGACAGCCTGGACTACTTTNTTTTCACACAAACAAACCTCCCCGCGNANNCTCCTGGGC  
CA

Sequence 323

GCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTTCAATACTTAAAAATAGTCTTCC  
ACAAAAATACTTTATTTCTGATCTATACAAATTTTCAGAAGGTTATTTTCTTTATCATTG  
CTAAACTGATGACTTACCATGGGATGGGGTCCAGTCCCATGACCTTGGGGTACTTTTTTT  
TTTTTTTTTTTTTTTGGAAAGCTCTGCCATAAACTTCTAGCGTGTGCCAATGGTCACC  
T  
GCCCACTCGCACCAGGTTGTCCGTGTAGCCAGCAAACAGAGTCTGGCCATCAGCAGACC  
AGGCCAGGGAGGTGCACTGGGGTGGTTCTGCCTTGCTGCTGGTACCTGCCCG

Sequence 324

GGTGGCGGCCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTAAANGGGGACGT  
TA  
AATAAAATAAGCATGTCTCCATCCTTTATTCCTAAACATTTACTTATGACAAATGTAACA  
ACTGACAGAAATTTGAAAAATACCAGACACTTCTTAAATGATTTCCCTTGGTTCAAAAT  
T  
TACCCCTTCTTGTTTTCTCTTGCTTTTCAGGTAATTAACCTCTTCTCTTTTT

Sequence 325

ATTGAGCTCCCCGCGGTGGCGGCCGAGGTACCATCAAGTTAAAAGCAGAAGATGCTTCTG  
GTAGAGAGCATTTAATCACTCTCAAGTTGAAGGCAAAGTATCCTGCAGAATCACCAGATT  
ATTTTGTGGATTTTCCCTGTTCCATTTTGTGCCTCCTGGACACCTCAGGTAAATTCTCCT  
C  
AGAGCTCCTTAATAAGCATTTATAGTCAGTTTTTGGCAGCAATAGAATCACTAAAGGCAT  
TCTGGGATGTTATGGATGAAATCGATGNGAAGACCTGG

Sequence 326

CCGCGGTGGCGGCCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTAAAGGGGA  
GT  
TAAATAAAATAACGCATGTCTCCATCCTTTATTCCTAAACATTTACTTATGACAAATGTA  
ACAACCTGACAGAAATTTGAAAAATACCAGACACTTCTTAAATGATTTCCCTTGGTTCAAA  
ATTTACCCCTTCTTGTTTTCTCTTGCTTTTCAGGTAATTAACCTCTTCTNTTTTAGTTTG  
AACTATGCAGTGCAAGATTCCTNTGTAGTCTTTCCAAGTGGAAGGGTATAAAAAAACA  
CTTTATATTATGCCAGGTGAGGNGTCAGAACCCTGGCATCGGAAA

Sequence 327

GCTCACCGCGGTGGCGGCCGAGGTACTTAAACCAAATAAAAAGTGACATTTGAATTTCT  
TTTAAAAGGATTTCCGAGCTCACAGTCAGCTTGGCAGCCATTCTCCCGCGTACCAGCACA

Table 1

AACCGGGCCAGCCTCCTAAACTGCTCATTTACTGGGCGTCTACCCGGGAATCCGGGGTCC  
CTGACCGA

Sequence 328

CGCGTCCGCCCATCTCAGTGTACAGACACTCCTGGGTTTGAATTTTGTGTTCTCT  
GT  
CTCTTTGATTTCCTGGAAGACGACACCATGACAATTTCAAAGAAAATAGAACAAAATGAA  
GGAAAAAGAGGCTCTGTCTTAGCACATTCTGTGACCAGCCTGCTGTCTGTGGCGTGCCC  
TCCTGGCCCCGGCCTTGGCACATGTTTCGTNTTTGTGGTTGTTGCCTGGACAGGCAACTCTG  
CAGGGCTGCTTCTCTACGCATCCCTTTGCCTGCCTGCCTGTGCCAGGGTTGTCAAGGGC  
TTTTGGGTCAGAGTGGGCACCCCTTTCTCCAAGGCTCCCTGCAACAGCTGGCCTGTCCCT  
GGTGGGGCT

Sequence 329

NAACTTACAGGATGGCATTTAATACAGATATTTTCGTATTTCCCCACTGCTTTTTATTT  
GTACAGCATCATTAAACACTAAGCTCAGTTAAGGAGCCATCANCAACACTGAAGAGATCA  
GTAGTAAGAATTCCATTTCCCTCATCAGTGAAGACACCACAAATTGAAACTCATACTA  
TATTTCTAAGCCTGCATTTTCACTGATGCATAATTTTCTTATTAAATATTTAAAGAGAC  
AGTNTTTTCTATGGGCCATCNTCCAAAAACCTGCTATGNACCATNCAACTTAGGTTCT  
TA  
CNTTTCCTGCCTTAAATTTNTAATGGAGNAANGGATTTTCTTTTCAATTTTTAAATTT  
GCATTTTTTGGGGGAATTATACCTTCCACCAATCTTTTTGANTNTATTTTTCTTTGG  
A

CCTTAAATCATGAATTTTTTTCAAATTAANAAGGTTNNAAGNTTTAA

Sequence 330

AGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGATNGTTCACCTCACTTTCAAAGCCAGCT  
GAAGGAAAGAGGAAGTGCTAGAGAGAGCCCCCTTCAGTGTGCTTCTGACTTTTACGGACT  
TGGCTTGTTAGAAGGCTGAAAGATCGAGCGGCCCGCCGGGCAGGTACTTTTTTTTTTTT  
TTTTTTGGCTTTCTTTGCTCCTTTCTTATGATCAGCCACATTTCTTCGACCTCCTTCTC  
CTTCATCCTCAGAATCTGAGAATCTTTCATCACAAGCTATCCGCTTGTCTGATGCTCG  
AA

TAGAAATCTCTTGTCTGGATCTTCTCCATCTTCATCTCCACTGTCTTCATGAACAGCA

T

CTTCTGGAATAGCCTGCATCTGGACACCCAGGTGCATGAGGTAACATGCGCAAATTTTCA  
AACAAACCGCTGGTTTATCTTTT

Sequence 331

CTNCCGCGGTGGCGGCCGAGGTACTAGCAGTTGCCAATGAAGGAGGCTTTGTTGATTGT  
ATAACACACGAATCACAAAGTTTCAGAAAGAAGTGCTTCAAAGAATGGATGGCTCACTGG  
AATGCCGTCTTTGACCTGGCCTGGGTTCTTGGTGAACTTAAACTTGTACAGCAGCAGGT  
GATCAAACAGCCAAATTTTGGGACGTAAAAGCTGGTGAGCTGATTGGAACATGCAAAGGT  
CATCAATGCAGCCTCAAGTCAGTTGCCTTTTCTAAGTTTGAGAAAGCTGTATTCTGTA  
CC  
TGCCCG

Sequence 332

CCGCGGTGGCGGCCGCCCGGGCAGGTACCATCTGACTTGGCAATGTAATGACACACACGT  
TAGTGTGGGGCACAAACGTGGAATATTAGGAGAGAGCTGGTTCCAGCACCAAATCCAGAG  
TCACTCGGGGAAGGAGGTATGGTGGCAACACTTTATGCTTAATATTCAATTCTGCTCCAG  
TAGAACATGGTACCT

Sequence 333

CGCGGTGGCGGCCGNTCGGGCAGGTACGCGGGGACTCTGAACGTGCTAAAATGGGAAGGG  
AGGCGGTGTTTTGCTGATCTGTAAATCTTAGTGAAGTTTCTTGATTTCCAGTGGCT  
G  
CTGTTGTTTGAGTTTGGTTTGGAGCAAACTGAGGTAGTCTAACATTTCTGGGACTGAA

Table 1

TCCAGGCANGAAAAAAAAAAAAAAAAAAAAAAAAAGGTACCT

Sequence 334

CCCCGCGGTGGCGGCCGAGTTTGATTTCTTGCACTCCTGAGCGATGGAGCCCCGGGGGTGC  
CTGGTTATTGTCCGCTTTCTCTCTCAGATGCTTGGCTTGTTTTTCAAGAGAACCTTTTT  
C  
GATATTCATTGCTCCATCGATTGGATCCAGTCCTTGTTCAAAAAATTGTTTCAAGGCA  
CT  
TAAGGCTGCCTGAAAGCCTTGAATCCTTGCTAAATATTCCAGTTGTTTTGAAGGTTGT  
AC  
CTCGGCCGCTCTAGAACTAG

Sequence 335

GCTCNCCGCGGTGGCGGCCGCCGGGCAGGTACTTGACTGCTAACAACCTTCAAATTTCTT  
CTACTTACTCCCTCTTCTTCACTTACATCTGGGAAAAGTATAGGGAAGCCTAGGTAG  
GCCTACCTTTGGTGCCAGAGGGAAGCTCAATCCATGCAAGCCCCAGATAATATATGAGAA  
CCTCCCCAACCTTACCCTACACCCCTCACCTCCCAATCCAAGCCAGTCTCCTTTCCCTGC  
TTTCTCAAACCATGTTTGGACCTGCTTGAAGCTCCCTCTGCTCTCCCTAGAAAAGCTT  
CA  
TTATGTGAGTGATACATCTTTTCATATCTTCTTGGTGTGTGTGTGTGGTATCATCAGCC  
T  
CAACATCTGAAGCAAATGTTGGGTGGGGGGGTACCTCGGCCGCTCTAGAACTAGGTGGAT  
C

Sequence 336

CTCCCCGCGGTGGCGGCCGCCGGGCAGGTACTCATGAAGGAGATGGCCCCCTTTGGGAGC  
AACCAGAGAATCACTGAGATCCCAATGGAAACAGGAGGTTTCAAGCCAGAGGAACCGACTTT  
TAAGGGATCACAGAGCTCACACCAAAGACCAGGGGAACAGTCAGAAGCCTGGCTTGCTCC  
TCAGGCTCCCAGGAACCTGCCTCAAAACACAGGTCTCCACGACCAGGAGACAGGTGCTGT  
GGTCTGGACAGCTGGGCCCCAGGGACCAGCCATGCGTGACAAACAGAGCTGTATCCCTCTG  
TCAGCAAGAATGGGATGTGCCCAGGCCCTGCACAAAGGGCCCTCTACAGGGGGTGCCACC  
CAGAGGAAGGGACAGTCACGTCTCGCTGGCAACAGGGTGTTGCCCTGGGGCTATTGAAGA  
GACCAAGACGCTCCTGGCTATTTTTTAAGTAGTTCTCAATTTTATGGGNAAAACNCA  
A  
GACCTTNTTCAGCCAGNAACAGCCCCAGATTCTTACAGGGGCCATTGGGCGGAAGGGACT  
CTTGGGAGCCAANGGGTTTTTTT

Sequence 337

CCGCGGTGGCGGCCGAGGTACGCGGGATAATCAAGGTGTACATCCCGGTGGCTGGACATG  
CCCTCTTGGGCTTGGCAGATGCCAGTGGAATCCATACAACACTACTCCGCCTGGTGGAATCTG  
AGAAGAGCCACGTGCTGGAGCCATTGTCCAGCCTTGCCCTGGAGGAGCAGTGTCTGGCTT  
TGTCCCTAGATTGGTCCACTGGGAAAAGTGAAGGGCCGGGGACCAGCCCTTGAAGATCA  
TTAGCAGTGAATCCACAGGGCAGCTCCACCTCCTGATGGTGAATGAGACGAGGCCAGGC  
TGCAGAAAGTGGCCTCATGGCAGGCACATCAATTCGAGGCCTGGATTGCCGCTTTCAATT  
ACTGGCATCCAGAAATTGTGTATTCAGGGGGCGACGATGGCCTTTCTGAGGGGCTGGGAC  
ACCCAGGGTACCTGCCCCGGGCGGGC

Sequence 338

NAAAACNCCCCCGGATAGAAGNNATTTTTNTCAGGGCACANANTTAGAANCCAGNNG  
GNTTNTANACCCAACTGGCAACATCAAGAANGAGCGGGGGGGGAAAAAANTGACAGGGA  
CGGGGAGCGGGCNCACAAGNNGCAGGGAAGGGAGACNCCACCNGNGGGGGGNCCTGGGGG  
CCNNGAAACCGNACAAAGGGGNGGNACACTGGCCGCCGGGNGCCGGGACGGAANNGAAGN  
AANNTAAGAGGGGGANCNCCCCGGGGGGTGNAAGGGAAAANGGCCAANAANNCAANGC  
NCAAAANCNGAAANNCCCGGNNNAACCCCNCAAGGGGGNGGGGGGNCCTGGGGGAACC  
CCAAGNGGGGNTGGAATCCCCAANAAGAGGAGGGGGGCGGAAAATNCCGGCNGCCGCC

Table 1

AAGGGGGNGGNAAAACNAANGGGGGGCAAAAAAGGGCCNNGGNNNNCCCCGGGGGGGAAAA  
AAAAAGGGGGGNAAAAANCCCGGCCAGGAACAAAAAAGGCAAAAAACAAAACCAATNA  
ACNGGGANNCCNNGGGGAGGCCAAAAAAGGGGGGGGAAAAAGCCCCGGGGGGGGG  
GGGGCNCNNAAAAAGGAAGGGGGGGGGGCCGAAAAACNGCCAAAAAATANAANNNG  
GGCGNNTNGGNNGGCTANCNAAAANGGGGNACNNGGGGNNCTTCCAAANNAAGGGGG  
AAAA

Sequence 339

CGCGGTNGCGGCCNTCNTTTTTGTTTTTTTTTTTAAATAGCTGAAGATTTAGATTTAT  
TTGAAACACTTAGTCTAATTTATATTAGGTGCAGAAAAATCACATTCAATAAACACA  
A  
TTGTAGAAGAGACAGATAAGTGTGTTTGTACATTTTACACAAATATAATTTGATNTT  
T  
AATTAAGGGATGATGAATCNCAACCCCTTGTTAATAATGATTTNTTCTCTCAGTAANT  
A  
GCAAGAATCTNTTTGNGGTTNCCGGGNCCTCNNGGGGTTTATTCNNANACNNGGNGCCG  
TTTTANAAATTTAAGGGAATTTTTNTTTTTTAAAGNCCCNTNCCCTTCCCCTTTT  
TGGGCNATTTCCCCNGNAAAAAAAATTTTNCCTCGGGGNATAACCCCCCNAG  
GGGGTAAAAAACCCCCNTCTNNGACNNAATTTTTGGGGGGGCNNGGTTTTTTTNG  
NAANAANTTTTTTNCNNNGNAAAACCCNCCTTNTAGNGGGGGGGGGGGGGGNGNT  
TT

Sequence 340

CACCGCGGTGGCGGCCCGCCGGGCAGGTACGCGGGGGAGCGGGCCCTACCGTGTGCGCA  
GAAAGAGGAGGCGCTTGCCCTCAGCTTGTGGGAAATCCCGAAGATGGCCAAAGACAAC  
A  
ACTGTTGCTTGCTTCCAGGGCCTGCTGATTTTGGAAATGTGATTATT

Sequence 341

GCGGTGGCGGCCCGCCGGGCAGGTACCAAGAAGATGCAGTTAAATACTGCCAGTTTTC  
CAAGAAATTTGTAAAGTTGAACATGGCCATCTACTCTTGCCTTAAACTTTTCTCACC  
A  
CACCCACCTTCCCACATGCATGATATCCAAGGTCGACAGACCTGGATTAGAATCCACTCT  
CAAGCTTTATGCAGTGCCTATTGTATTTCTGCATAAGAAAGGGCTGCCTCTAGAACACA  
GTAAGTGTATTTGCCAGTAGTGACATTGCCTACATATAGCCAAGTGTTATAGTATACCA  
ACTTAGTATATTTTCAAGGAGAGCTAAACCACCTTTTGTAAATGTTTGGTTTCTCACTG  
N  
TATCTTCCTTTCCTATAATTAATTTATTTAATCTACAAATTGACATAGGGCTAAAAGCT  
TCAATATTTTACAAAATATTAATTAATGTAATTGTTCCCAATTATTAGAACTTTTTCC  
ATTTTCAAAATGTTTGCCAACTTCACACAAGTGTGTAAAAATAGGGCTCT

Sequence 342

CCGCGGTGGCGGCCGAGGTACAGGTTTAGTCTGAATGCACTGTCATGAAATTTAACTTT  
CATTATAATACTGTTTTAAGAACTTACAGCATCTGCTTTACAAATGGTGTTAGCTACAT  
G  
TCGACACAGCATCTTTAGCCAGTTTTCTTTGGAAGTTCATCTGATGTCATCTGGAAC  
T  
GAGTAGCACATTTGCCTGCTCTGTTGGTGGCCTCACAAGCAAGGCAAAAGCATTATGGCA  
ATCTAGGGTTCCAGAATAACCATAAACATTAAGTGTCACTCCTTGGAAAATGACAGATGT  
ATGCAAGTTTAGTTCCCTCAGAGCAATGAAATTTCAATGAAATGAACTATCACTTCTCCA  
CTTTCTTGTCTATTTTTAATAAGACAAAGAACATCACCATATTAAGTTGAAGTACCT  
G  
CCCGGGCGGCCGCTCTAGAACTAGGTGGATCCCCCGGG

Sequence 343

CCCGCGGTGGCGGCCGCGGGCAGGTACATCAGAGATGCTCACACCATTCTTTGAGTA  
GTTTAAAACTCATTTTAACCACTTTTATTCTTTGTATTCAAACCAATCACTGGCAATA



Table 1

GCTCTAAGTAGGTCATCAACTCTCCTCCATGTCTTCTTTCTAATTCTGCCACAGACTCA  
C  
TTCTTCCCGTAAATTAATGGAAGGAAATGAGTGTCTGAGTTCTTAGAATCTCAAAAGGCA  
TGAGGATAAAGCTTTCCTGGAGATAATATAAGTGGTGGCAGGAAGATTTGGGAGCCAGAT  
GATACTCTTTTCTCTTAGAGAACTCTGTGGAAGCTCTGCCTATACTGTGGGAAATAAA  
TTCTAGACGCTGGCTTCTTTCTGTAGTAAACATGTGGGCCCTTTAAATGTTGAACCA  
AA  
ATGTGCTTCAAATATAGTTTAAAGTTATAAAACATTTATGGGGGAGTATGTATGTGCCAA  
C  
TACAGAGGCTTCAGAGATGAAGAAACAGTTCTTACCCTAGTGTGCTTAGAATCTAGTAG  
TAGTAAGTAATAATTACTAACATATGCATTTACTATATAGGCAATACTAGGGTAAATATT  
TTACATAGATTACCTTATTTAGTAGCTCTTAGCTGCTAAAAAAAAAAAA  
Sequence 344  
GCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTT  
GG  
GGGAGTTAAATAAAATAAGCATGTCTCCATTCTTTATTCCTAAACATTTACTTATGACA  
A  
ATGTAACAACCTGACAGAAATTTGAAAAATACCAGACACTTCTTAAATGATTCCCTTGG  
T  
TCAAAATTTACCCCTTCTTGTTTTCTCTTGTCTTTTCAGGTAATTAAGTCTTCTCTTTTA  
GTTTGAACCTATGCAGTGCAAGATTCCTCTGTAGTCTTTCCAAGTGGAAAGGTATAAAAAA  
AAACACTTTATATTATGCCAGGTGAGGTGTCAGAACCCTGGCATCGGAAAGTGGTTGGC  
TCACGGGTCATAGGGTAGTAAGAAGAATTTACAGAAGACAGTATAGGTTCCGAAAA  
Sequence 345  
AGGTACACTGCGGCGGGGGCAGAAAAGCTGCAAGGAACAGAACCCAGCAATGCAGAAAGCTC  
CTCGAAGGGGCCACCATCATCTGCAAAACACCAAGCAGGGCAGTCTCTTATGCTGTGGCT  
CTTCTCAAGGATGTCTCAAGGGCTCCGGTGGTGTCTCTCTGCTCTATCCGCTGCTGTGGC  
AAATCCTCTAAAAACAGCGTTTTGCACAGCAGAGAGCAAAGTCCGCTTGTTATCCACCC  
GATACGTGAGCTCAGTTTGCCAGCTAGTGATCAAGTCCAGCTGTTGGCAAGTTGGTCCCT  
GAGGCCTTGTAGACTGACCTGTGGCAGAGAGCTCCCTGGGTCCAGCATCTGTTGCCCTCA  
CCCTTGACACATGCGGACCCTCCCCAGGC  
Sequence 346  
GCGATTGGAGCTCCCCGCGGTGGCGGCCGCGGGGTACAAGAGAAGAAAGACCAGTCCCTGCT  
GAAAGACAAGTCTGAATGCTCCACTTTTTCAATTCTCTCTCCATTCTCAGTAAGTCAA  
C  
TTCAATGTCGGATGGATGAAACCCAGACACATAGCAATTCAGGAAATTTGACTTTCCATT  
CTCTGCTGGATGACGTGAGTAAACCTGAATCTTTGGAGTACCCATTCCCTTGATGTCTAC  
AATATCACCTTTCTTAGATTTCGCATATATGTGGCCAAAGGAACAACCTCCATGTTTTCT  
T  
AAAAGGCCTAGAGAACATATATCGGGTGCCTCTCCTCTTTCCCTTTGTGTTTCGTCAAT  
TT  
GGCGAATTACTGGAAGATG  
Sequence 347  
AGCTCNCCGCGGTGGCGGCCGCCCCGGGCNGGTACCACNGCCCAGCTAATTTTTTTATGTT  
TGAGTAGAGACGAGTTTCACCATGTTGGTCAGGATGGTCTCAAACCTCCTGACCTCAGGT  
GATCTGCCTGCTTCGGCCTCCCAAAGTGCTGAGATTAGAGGCATGAGCCACCATACTGG  
CTCTTTTGCTTCATCCATCCCTTAATTTCTTTGCTGGAGCATTTTAAAGCAAATATCAG  
A  
CATACCCTTTACAGCCTCACACTTCAACATGCGGCTTGTTGAAATTCGTGCTCCACTCCA  
GCAACTGCTTTCAATCGGAGTTCCATCCTCCGCCGAGTATGCCCTAACGCAAGCGTTAT  
CTTCAGAGCTACCACCAGGNTTCCGAAACTTTTTCGGNGGGAGGCGCTTTNGCCACCACC

Table 1

TNGCCGGGNNAAACGGNTNGCGTNAAACCAAACCTTTGAACGGCCAGNCCCCCGNGGTAC  
CTTNGGGCCGGTTTAAAACTAAGNNGGGGATNCCCCCGGGCTGGCAGGGAATTTTCGAT  
ATCAAGCTTAATCGATACCCGGCGACCTTCGAGGGG

Sequence 348

ACTCCCCGCGGTGGCGGCCCGCCGGGCAGGTACTTGACTGCTAACAACTTTCAAATTCTT  
CTACTTACTCCCTCTTCTCAGCTTCACATCTGGGAAAAGCTGATAGGGAAGCCTAGGTAG  
GCCTACCTTTGGTGCCAGAGGGAAGCTCAATCCATGCAAGCCCCAGATAATATATGAGAA  
CCTCCCCAACCTTACCCTACACCCCTCACCTCCCAATCCAAGCCAGTCTCCTTTCCCTGC  
TTTCTCAAACCATGTTTGACCTGCTTGGAAGCTCCCTCTGCTCTCCCTAGAAAGCTT  
CA  
TTATGTGAGTGATACATCTTTTCATATCTTCTTGGTGTGTGTGTGTGGTATCATCAGCC  
T

CAACATCTGAAGCAAATGTTGGGTGGGGGGTACCTCGGCCGCTCTAGAACTAG

Sequence 349

CCCGCGGTGGCGGCCGGAAGGAGGACGACGGTGCTGTGCTGTGTATGAAGAGGCAGTGAA  
GACTCTGCCAACAGAGGCCATGTGGAAGTGTTACATCACCTTTTGCTTGAAAAGATTTAC  
TAAGAAGTCAAATAGTGGGTTCTTAGAGGGAAGAGGTTGGAAAAAACCATGACTGTATT  
CAGGAAGGCACATGAACTGAAGCTTCTGTGAGAATGCCAATACAAGCAGTTGAGTGTTC  
GTTGCTGTGTTATACTTCCTGAGGGAAGCTCTGGAAGTGGCAGTAGCTGGAAGTGAATT  
GTTTAGAGACTCTGGGACAATGTGGCAGCTGAAGCTGCAGGTGCTGATCGAGTCAAAGAG  
CCCTGACATAGCCATGCTTTTTGAAGAAGCCTTTGTGCACCTGAAACCC

Sequence 350

CTCCGCGGTGGCGGCCGCGCCGGGCAGGTACCCGTGCTAAAAGACTTTTAGTTCGGCTCT  
CCCAGTGTTTTTTTTTCGTGATTTGGGCACAGAGTTTCTGGTTCACGTGGATGTGA  
GG  
ATCCTTTACTCCAGATCGCCAGCCAGTTTTTGTTTTTTTTCTGCGTTGCTGAGAGTCT  
G  
GGTTTATTCATCACACCAGGTGGATCTTAATTCCATATCCCTGAGGCCACTGCAATGAGG  
CAGAGGAGTGTGCTCCCTCATGAGAAAGGACTGGAGACCGCCCCCAGAAGAGAACGTATC  
CATGTACCT

Sequence 351

CCCCGCGGTGGCGGCCGCGCCGNNCTGGTACTTATAATGCCNNNNNTTNCNGGNTGTGAAT  
GGATTACANTGTATCTTTTCAGGGAAACCTATTATTATCAATGTGACTCCACNNGGGGAG  
TCCATGGTGATGATGATGAGGAGGAGGATGATGATGATGAGACACCTCTAACTTGGAAC  
AAGTTTAAGACTTTATGAGAGAAGAAAAAAATCACCAACAAGAAATTGTTTGAGGAAAA  
TCATAACTATCCTGTGTTTATTTTTTTTTTATAACAATAAGAAAAAGTTGTTGGATT  
TTTTTAAATGATTTCTTTTTTGGGGGAGGGAATTTTGTTCAGTTTTATGGTGGAAAA  
T  
GCAAAAACAGAGCCAGGTGCATAATCTTGTAACTGTGGATATCCCTGGAGCAGGACTG  
ANCCT

Sequence 352

NCCGCGGTGGCGGCCGCGCCGGGCAGGTTGGTAACAACGCAGAGTCCCGGGAAGCAGTGGT  
AACAACGCAGAGTCCCGGGAAGCAGTGGTAACAACGCAGAGTCCCGGGAAGCAGTGGTAA  
CAACGCAGAGTCCAGGGAAGCAGTGGTAACAACGCAGAGTACCCGGGGAAGGCAAA  
TAGAATGAGAACCATATTATGTACCT

Sequence 353

CTCCGCGGTGGCGGCCGAGGTACACCCAGCTTTGTCTCCTGGCCCCAAATCTCCTTTTC  
CTTACTTTGGGCATTAAGTCTGTTGAGGTCTCACAGCCTGATGGTCATTATCCCTGA  
AT  
GGCATAAATCAACAGGCTGTATGAGCATTGTGTGAGATTCTACATGAGGGAGAGCATTTTC

Table 1

AAACCCATGACAGATGAGAGAAGTTAGTACACTCTCACTGAACTGGGGATGTTTGACTTA  
AAATGATGGACAATAAGATAGTGAGCAGTAAGTGTGCTCTAGGCTAGGCTACGAGAGGCC  
ATGAGCTCCTCATCTCTTCTCTGTTCTGAGCTCTCTGATCCACCGCACTTGGGGCAGGGG  
GTGCATTCTCTGTGCCTCTCCTGAGTCTACTTTCTGCATCATTTGGGTTCTCCCAGCTC  
AC  
TTCCATAATGTCCTCCTAGGCTGCATTGGAATTTGTGTGTTGTCTAGACCCATGGCCAAN  
ACTGTCATTGCCTGTGAGGGAGACCAAGCTTACCCACCCAAGGGCTTTTG  
C

Sequence 354

TGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTT  
GC  
CTTTAGAAGGTTAAATGCCAATATAAAGCTAAAACAGTAATCATCAGAGACAGCTCTAA  
TAAGGCTTTGCTACTGTTTTTACTATATAAATCTTTACGTGTTAATGGAAAGAAAATTAA  
TTCATTCTGTTACTCCATTTTTTCTCTCCATATTGTATGCCTGAAGTGAGCTGATGAG  
G  
GGCAGAAAGATCATACAGTTAGGAATGAAGACATCAGAATGTTCCACTAAACAGATATTT  
AACTAGATACTATTATACTACTAAGAATAGCAAGAATGTCTCTCAATTCTGGGAATTC  
T  
CCTAGCTCACACAAATGAAACGCACATCTCCATGAATGCTTTCTAATAAATGCTTCCAGG  
ATAGTATCATAAACAAGTCAAAATTAAGAAAAATCAC

Sequence 355

GCTCCCGCGGTGGCGGCCGGAACCGCCATCTTCNAGTAATTCGCCAAAATGACGAACACA  
AAGGGAAGGAGGAGAGGCACCCGATATATGTTCTCTAGGCCTTTGTAGAAAACATGGAGTT  
GGTCTTTGGCCACATATATGCGAATCTATAAGAAAGGTGATATTGTAGACATCAAGGGA  
ATGGGTACTCCAAAGATTCAGGTTTACTCACGCCATCCAGCAGAGAATGGAAAGTCAAAT  
TTCTGAATTGCTATGTGTCTGGGTTTCATCCATCCGACATTGAAGTTGACTTACTGAA  
G  
AATGGAGAGAGAATTGAAAAAGTGGAGCATTGAGACTTGTCTTTCAGCAAGGACTGGTCT  
TTCTATCTCTTGACCT

Sequence 356

GTTGAGCTCCCGCGGTGGCGGCCGAGGTACCTGACTGTGGCTCAGATCTGCGTCGCAGCA  
GCGAGAGAAGAAATCACTCCATATCCGATGAGAGGAAGGGTGGCACAGAGATGGTGTCTA  
CAATTAGAGACATTTCTGACTCCACCTTAGCCTAAGCAAACCTTATGTACTGAGTAACA  
T  
TTGAAGGTTGTCTTTAATGGTGGGGGGTGTTTTTTCTTTTTAACTACAGTGCTTGC  
A  
CAAGAGAGGGAGGGACTCAGAAAAGGTTAGGGCAGGTGAGGGAGACAGTAGATGGCCTGG  
GATGACTTGAGTCCATCATACTATTGCTTGGCAGGTGTCTCCCCCATGTTTGATTCA  
AA  
TTCCATGAGTGACCTACCTTTCCCCAGGAATGGGACTGAGAGGGTAGTCTCCAGCAACTC  
AGTCTGCACAGGGCTCCCCGTTCAAGGCTGCCTTT

Sequence 357

TCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCATCTGACTTGGCAATGTAACGACACACA  
CGTTACGTGTGGGGCACAAACGTGGAATATTAGGAGAGAGCTGGTTCCAGCACCAATCC  
AGAGTCACTCGGGGAAGGAGGTATGGTGGCAACACTTTATGCTTAATATTCAATTCTGCT  
CCAGTAGAACATGGTACCACCATCTTCCAAGTTCAAAAATTATCTTTGATTCAATTTG  
T  
TCCCCATTCTCTAATATGTCACCAATTCTGCTGATACATTCTTTGTAATCTCTCCATC  
T  
ATTTTAATCTGTTATTCACCTGAGCTACACAAACATTCATCTGCACAAGGAGTATTCCA  
C  
GTGCTGAAAAGACAGAGGATTAAGCCCTCCTTGTGGAGGCATTACAGTCTGGTTTTAAT

Table 1

ACACAAACCAACAATTATAATACACAGGGATAAAAAAGTAGAGGCACTTATTGCATACC  
TGTACCT

Sequence 358

TTGACTCCCCGCGGTGGCGGCCGAGGTACTTTCTAGCAGTCTGTGGCCACTCCATACTC  
AGCTGAAAACACTGTTTCAGCCCCCTCTCTGGTGACCTCAGCCTTCTCCAGGTGTATCTC  
TTGATGATCTTGAGACCAGCAGCCACAGCTGCTGCTACTCCTGCAGGAGACTGTCAGGC  
TGTGGTGGGGGGCAGGGGTGTTGGAGGAGAAGTTGAAAATCCGTGTGTTCTCTGTCCCTC  
TGCTCCTCCATCTTAGCTTCTGGAGGAGTTAAGGCACCAAGGGCA

Sequence 359

CGGTGGCGGCCCGCCCGGGCAGGTACTGGTGTGTGATCGGAACGTGTCGATCCCCTCTTC  
TCATCACTGCTGCTCCAACCTGGATTTATTACTCCGGGAATGGTAGAGAATAAAGATTTGT  
AGGAAAGGTGCTGAACTGCCAAGGAAGGCATTTCTTGTGCCGTGTCTGGAACCGTGTATC  
CTTACTACATCACTGAACGACACCAAGCACCCCATGCACTTCTGGGTCCAACCTTGGCCC  
CTGGAGAAAGACACTGAAATTTGGCCATGCAGGTCTACTTCCCGTAGGGGGGATTTTTT  
TTANNAANTGTTTNNGCCCNNTTTGAAAAAGGGNTTTTAAANCNAAAAANAAANTTT  
T  
NTTCCCCCGGGGGGGNNGGNNTTTTTTTAGGGGGGAAAANGGNGGTTTTANTCCCCCN  
NNGGNAAANCCCCCNNTTTTTNTTTTTTGGGGNNGGGAAANATTTTTTNGGGGGTGCN  
CNGGNGNNTTTNNNNANANNNAAACCCCCNNTTTNTTTTTTAANANACCCNCNNN  
AANNGGGGGGTTTTTTTTTTTTTAA

Sequence 360

TGGCGGCCGAGGTACCTACTGAAAACTAAACACGCCAGAGGAAATTTGGCCAGTTATCCA  
ATTGATGAACTANTAGGATAGAGCCAAACAATCTTTCAAGAGGGTGTGTGTGAGATATG  
GTTGACCAGTGAAGACACGGGGGCTTATGGCAGAGATATTGGCACCAATCTNCCCACACT  
CCTGTGAAAACCTGGTTGAAGTGATTCTGAGGGAGCAATGCTGAGGCTTGGCATGACAAA  
TCCGCCCTATATTTAGAGCATCTGGAGGAAATGGCANAAATCCTTAATCACCCCAGAGT  
CTACGCTTTTCTGCACATACCAGTCCAGTCTGCCTCCGACAGCGTACCTGCCC

Sequence 361

GATTGAGCTCCCCGCGGTGGCGGCCGAGGTACTTAAACCAAATAAAAAGTGACATTTGA  
ATTTCTTTTAAAGGATTTCCGAGCTCACAGTCAGCTTGCGAGCCATTCTCCCGCGTACC  
AGCACAAACCGGGCCAGCCTCCTAAACTGCTCATTACTGGGCCGTCTACCCGGGAATCC  
GGGTCCCTGACCGA

Sequence 362

GAGTCCCCGCGGTGGCGGCCGAGGTACGTATGCACAGCCTCACACTCTATAAATGTATG  
TGTCTGAATTTAGAGCTTAATAATGAATTATGGAACCTTGATAATGATTGGATCAGGCA  
GACAACACCTGATCAGTCTTAATATCAGAAAAGAGACAAGTAGACATTATGTGCTTCCTG  
AGGTGAGGCAGTAGTAAGGAAACAACATCACACATGTAGCAGTCTTGGGAAAAAATGT  
AACCTGTATCTCGTAATGAGGAAACAATCAGTAAAAAGTCTAGATTGTGGGACATTCCA  
CAAACCTGCTGAACTCTTTAATAATGTCAGTGTGATGAAAGACACACCACACACACACA  
CTGCACATCATACAAACACCACCCACCACCCACCACTCAGACACACACAAAAGGGCA  
ACTCTAATCAATTAAGGAAACAAAAGAGAATGACAACTACATATAACGTATAATTCTTG  
ATTGGATCCTGGATTTAAAAATAAACAGCTATAAAGGATATTTT

Sequence 363

GCTCCCCGCGGTGGCGGCCGAGGTACTTAAACCAAATAAAAAGTGACATTTGAATTTCT  
TTTAAAGGATTTCCGAGCTCACAGTCAGCTTGCGAGCCATTCTCCCGCGTACCAGCACA  
AACCGGGCCAGCCTCCTAAACTGCTCATTACTGGGCCGTCTACCCGGGAATCCGGGGTCC  
CTGACCGA

Sequence 364

TNCCGCGGTGGCGGCCGAGGTACAACGCATGAGTCCCGGGAAAGCATGTGGTAACAACGC

Table 1

AGAGTCCCGGGAAGCAGTGGTAACAACGCAGAGTCCCGGGAAGCAGTGGTAACAACGCAG  
AGTCCCGGGAAGCAGTGGTAACAACGCAGAGGCTTTCAGCACAGCCCAGGGTGCCCGGGA  
CTGAAAACTCCTTCACCAGCCCCCTCCACAGGATATAGAAGACTTAGATCACTACGAGAT  
GAAAGCAGAGCCCATTAGTGGGAAAAAGTTGGAGGATGAAGGAATTGAAAAAAAAAAAAA  
AAAAAANGTNCCTGCCCCG

Sequence 365

TGACTCCCCGCGGTGGCGGCCGAGGTACCAAGCACTGGGTAAGGCACTTTTGTGGAGCAT  
TAGACAGTAACCCTCAAGGAGCTAGAGAACCGGATGGGAGACATGAGCGGTAATTAATC  
ACTTGTTCCCGAGAGTTTCTATTTGTTTTNTTTTCTTTTCTGTGACTTATTTTCTATT  
TTCTTTCTCCATGTAATTTTCACTATGGCCCACTAATATAAACACCTGGAAATTACA  
A

GGAAAAAAATTCTTCTCTAATAACTTTCCAAATTTGTGGAATATTTATTTGTAATAGC  
AGTTATCAAGTTATGCTTATATAAGCATTAAAAATTCTCTCCTTTGACTACACACACA  
A

CCACAGTGTGGTCTAATCNATGGGAGATATCAAGTAATTTTTTAGTAACCTGAATTTT  
G

AGGGACATTTCTCTGTTTAAGCATGTATGCAAAGTATGTAATCCTGANGGTCCCAAG  
TCAATTTTTTTCTT

Sequence 366

CTCCCCGCGGTGGCGGCCGAGGTACTTTGCATCCTTCAACCCAATCAAGCTGACACTCAG  
TATTAACCATCACAAAGGCGTGAGGACAGATAGCTGCATCCGCAAATAGAGAACCAAGAA  
ATAGTCCCACACCAAAGTCAGGATCAAATGATTCTCTGGACAAGCCACCAAGTCAATTCAA  
CTGAGAGAAAGAAGCCTTTGCACCAGTTGGTGCTGGAAGTCTGGATATGCACCTGGATA  
AGTGAACCCCCCTCCGTCACCACACACAAAGTTAATTTGAGATGGATTGCAACATAAAA  
AGCTAAAACCATTAACACTTCTTGAAGGTAACATAGAATATTTTGTAAATGTTATGATAG  
G  
CAAAAGTCTCTTAGGACACACAAAAAAATTAACCATAAAAAGAAGAAATGGCTGGGTGCA  
GTGGCTCACACCTTTAACACCAGCATGTTGGGAG

Sequence 367

CTCCCCGCGGTGGCGGCCGAGGTACATTGTGATTCAAGAGAAAAGTCACATGCAGGTCTG  
AGCTCCTCCAGCAGGCCTTATGTAATGCTAAGATTTTTGGGGAAGATGAAGTTGAAGTGA  
TGAAGTGGCTGAATGAAGTGCATGACAAGTGAAGCTCTCAGTCCAGGATTACAGCAC  
TGAGGGGCTATGGAAGCAGCAGTCTGAAGTTCGGGTTCTGCAAGAGGACATCTTACTCAG  
GAAACAAAATGTAGATCAGGCTTTACTAAATGGTTTAGAACTACTTAAACAAACCACAGG  
TGATGAAGTTTTAATAATTCAAGATAAATTGGAAGCCATTAAAGCAAGGTAAGTCCAGAT  
ACCGAATTGAGCATACCACAAAAAAGTTCTCATTTTGTGTCCTCCCATNCCATTCTCCT  
C

ACTAACCAAAG

Sequence 368

CTCCCGCGGTGGCGGCCGCGGGCTGGTACAATGTGCCTGGCACCTTACAAGACACAAAT  
ATGCTCTTATAGGCTGGGGAAATAAGAAAATATGAATGAAGCAACCCAGGTCTTGAGCCA  
AAGAATTACCTGGGGTCCGTTGAGTTCAAATCTGAAAAATTTCTGTCTTTCAAGGTCAGCA  
TCGCCCACAAAC

Sequence 369

CTCCCCGCGGTGGCGGCCGCGGGCTGGTACGCGGGGTTTCCGGTTTGGGTGTGGCCG  
CATGGCGTGCTGGGGTGCAAGTGGCCGAAGGGGGCGTTACTGTTGCGACTGGCATCCGCA  
TCCGGCAGATGTAGATGGAACCAAAGCCAGAAGTTACGCGTCACCCTTGCTCTACAGCCA  
AACATGCAGGACTCTAGTAACCCGCGAAATGATGGGATAGCGTTGCAAATCCTTAAAGA  
GTCTTAACGGAGAAGGAAAAATGTTACATTGTCAAAGTCCCAAAGCCTTTCAGCCTGAAG  
CCAGGAACAATTGTTCAAAGTTTCTTTGGAACATCAAGGAAGGAAATCCAGATTTTACTT

Table 1

TAAGTGCAATGGGGGAGTCATTAAGGATTTTGTGTAGATACAGCAAAAAGACAACAATCT  
TCAAGCCACAATGGCCCTCACCAGAACCCAGC

Sequence 370

CCCCGCGGTGGCGGCCGAGGTACTTAAACCAATAAAAAGTGACATTTGAATTTCTTTTAA  
AAGGATTTCCGAGCTCACAGTCAGCTTGCGAGCCATTCTCCCGCGTACCAGCAGAAACCA  
GGACAGCCTCCTAAGCTGCTCATTTACTGGGCATCTACCCGGAATCCGGGGTCCCTGAC  
CGATTCAGTGGCAGCGGGTCTGG

Sequence 371

CCCCGCGGTGGCGGCCGCCGCGGCAGGTACGATTATTTTCAAACAAGCCTACGTCCCTGA  
CTAACCGAGTGGAAGGTGTGAGTGGCACTACAAATTCACAAAAGAACTGTAGCCTCAGAT  
AATCAAAGGAGAGAAGGTGAGATGCAATCACTGATGCATGCTAGTAATTCTCAAACCTTC  
GTTTTAGAAAACGATTGGATTTTTCAGATAGATTTGCAGTAAGAGAATAACAAGTCTTTA

T

TTTTTTCATCCCAACTTCTTTCTTGACATTTTTCTTCTAGCTATATTTAATATCTGTTT  
TCCCCACACACTTGCTAATCTACATTTACAATCTTCTTCACTTTCACTTTGTCTGCAA

A

GGAAATCTACCCTGGGACAGAANAAGCATCTCTTTTTTTTTTCCCCCTGACCCTTGCGCA

TT

TTCCTCTCCCTTCAACTT

Sequence 372

GATTGAGCTCCCGNCGCGGTGGCGGCCGCCGCGGCAGGTACGCGGGGATGTCTCTTGTG  
AGCTGTCTTTTCAAGACCTGGTGGGGCAAGTCCGTGGGCATCATGTTGACCGAGCTGGA  
GAAAGCCTTGAACCTATCATCGACGTCTACCACAAGTACAAGAGATAGAAAAGACCAGTC  
CTTGCTGAAAGACAAGTCTGAATGCTCCACTTTTTCAATTCTCTCTCCATTCTTCAGTA

A

GTCAACTTCAATGTCGGATGGATGAAACCCANACACATAGCAATTCAGGAAATTTGACTT  
TCCATT

Sequence 373

CTCCCCGCGGTGGCGGCCGAGGTACGCGGGGAGAAGGAATGGAAACGCCTGGAGAAAGAG  
GATGAAATGACGGATGAAGCAGTTGGAGACTCTGCTGAGAAGCCTCCTTCTACTTTTGCC  
TCACCTGAGACTGCTCCAGAAGTGGAGACCAGCAGAACTCCACCAGCCTGTGAAACACG  
AACCTTTCAATCAAGAAAAGACCTTTGATCAGGAGAAGACTTCTCGTCTCATTTCTGGGG  
ACACATTGAGGATTTCTCAAAGCAGGTGAAGGTACCTGCCCG

Sequence 374

TCCCCGCGGTGGCGGCCGAGGTACGCGCCAGTCACTAGCAGGTCTTGTGAATCTCCTCAC  
GGAGGCACCTGCGAGAGTTAATGGGCAGATGGAAGGAGATGGCAAGGACCAATCTGGGGC  
CGAGCAGGAACAAAAGCAGCAACGCTAACGGAAAAGGGCCGCGCCGGGCTGGTGGGCCAG  
ACAAACCAGACATGGTGCTCCCCGCGTACTCCTTATACTTATTAACACAAAATTAATTG  
TAAAATAGCCTCAGGCAGGTCCCTCAGGAGGTATCCAGAAGAAGGCATTGTGATCATAGG  
AGCTGATGGCTCCGCCTGGGTTACTGCCCCCTGTAGACTTCCAGTGGGACAGGATTGGGAG  
GTGGGAAGGACAGTGACATGGATGATCCCGGACCCTTTGTAGGTCTAGGCTAACGTGGTG  
TGNTTTGNGTCNTTAGCTTTTAAACCAAAAAAAGTTTAAAAAAGGTTAAANNANCNT

N

TNNNNNNNNNNNNNTNNAANNNNGGGTNCCTTGCCCCGGG

Sequence 375

TCCCCGCGGTGGCGGCCGAGGTACCTCAGCTGTTGATCTGTGGAGCCTAGGAATCATTTTA  
CTGGAAATGTTCTCAGGAATGAACTGAAACATACAGTCAGATCTCAGGAATGGAAGGCA  
AACAGTTCTGCTATTATTGATCACATATTTGCCAGTAAAGCAGTGGTGAATGCCGCAATT  
CCAGCCTATCACCTAAGAGACCTTATCAAAGCATGCTTCATGATGATCCAAGCAGAAGA  
ATTCTGCTGAAATGGCATTGTGCAGCCATTCTTTAGCATTCCTTTTCCCCCTCATAT

Table 1

T  
GAAGATCTGGTCATGCTTCCCACTCCAGTGCTAAGACTGCTGAATGTGCTGGATGATGAT  
TATCTTGAGAATGAAGAGGAATATGAAGATTGTTGTTAGAAGATGTAAAGAGGGAGGTG  
TCAAAAATATGGACCAGGTGGTATCTCTACTTTGTTCCAAAG  
Sequence 376  
GGTCACAGGTCTCGAAAAAGCGGGTGGTGCAATGCTCCATGGGGATGAGGGGAGCACCGC  
AGTGGAGCCAGCTCGGTGTGGGAGAGGTACCTCTAAGGTGTTCTTCTACCTAGCCTAGT  
TTTTTCTACCAACCTAGTTCACCTAGTTTCCTGCCTAACCTCGTTAGATATCACTCTT  
C  
GCTGCTTCAAGAATACTAAAGCAACACTCCTGATATTAACCTACTACTCAGTTTTTGTG  
T  
GGCAAAAACAGNAGATCACATCCCATTTGTCTTTTNGTTCCTTGGCTGNTTAAGCANC  
AANAGTTTAGCACTTTAATTCATTGCTCTACCAAATGGTTTAGTTTGGAAATAGGGGTG  
G  
ANGTGGACAAGAAGNTTTTGNTTAATCCCTTCAAAGCCAATTNAACTTGGTTTTTGGT  
T  
TTAGGTNGAGGAAGGGCCANGNANTNGTTCAAAGGTAGGCCTCAATGNAACCGTTTACCC  
CCCN  
Sequence 377  
GCGGTGGCGGCCGCGACGGAGGAGACGGTGCTGTGCTGTGTATGAAGACGGCAGTGAATGA  
CTCTGCCAACAGAGGCCATGTGGAAGTGTTACATCACCTTTTGCTTGGAAAGATTTACTA  
AGAAGTCAAATAGTGGGTTCTTAGAGGGGAAGAGGTTGGAAAGAACCATGACTGTATTCA  
GGAAGGCACATGAAGCTTCTGTGAGAATGCCAATACAAGCAGTTGAGTGTTCGT  
TGCTGTGTTATAAC  
T  
Sequence 378  
TCCGCCCCGGCAGGTACCAGGTGGTGAAACCAACTGCTGAACGCACAGCCTACCTCCTGT  
ATTACCGCCGAGTGGACCTGCTGTAAACCCTGTGTGCGCTGNTGTGTGCGCCAGTTGC  
CCGCTTNGTAGGACACCACCTCACACTCACTTCCCGNCTCTCTTTAGTTGGCNCCTTAGA  
GAGAACTCTTTCTCCCTTTGAAAAATGGGCTAGAATGAAAAGGAGTATGCCNTTGGGG  
TTCGTGCACAACACAGCTTCCTGATTGACTCTAAGTTTCCAAATCAAATTCATTTGGT  
T  
GAAACANGACTTGTTTGCTTGGATTTTAGNAAAATACACAAAAACCCCATATTNCTGAA  
ACAAATTGCTTGANTCCTGGAGATNAAGGAAAGNTGGGATTTNGATTCCCCAAGTCCTCA  
TTGCTTAAGTAGGAATAAAATCCTTGACCCATGCNAACAACCAACTTNGTAAATTTNGG  
TGAAAAANTGAAAATTTTAANTCTTNTCCTTTAAAAAAAAGAAAAA  
Sequence 379  
GAGGGACTGCTAGCCAGCCAATAAAATATAAACTCCATTTGTCTTAGTTATATAGAACTG  
TGTTTCCAGCTTAGAAAAAGTCAAACCAATGACTTNTAGAACAACTACTCTCATTTTT  
T  
ATTACGCTCTAGAACATGGAAGCTTTAAAAGTGAATTGGCTAAANAGGCAAGACCTTCT  
GAAAGTTAACATCTTAATGATTAACCAAGTAAAGTACGCACAACCGAAGCCGTAGAGTCA  
CACTTGCAACAAAAGGTTACAANTATTGCTAATGGGGCTCTGTCCGGTNGTCTTGTCCA  
GCTGGACCATCTATTTTCATCCCTCCTCCTCTTGAGCTGTCAATTTTAATTGC  
Sequence 380  
NCCGAGGTACGTTAGCTCATTTTCCCTTAAGCGGGTGTGACGTACGNTGAAATTGCAAA  
CGCTCAAACTTCCAACACTTGCGTATACACTTGTAACCCAGCTTTGNNAAGTGAGACAC  
GCATCAAAATCATGATGAACAATTGACCGGCTGCNTNGCAGTCAAGCAGTTGGGTTA  
Sequence 381  
CCGCGGTGGCGGCCGAGGTACACCATGTGAAGACTGGACTTAAACAGCTACACCACCAGA  
AGCCGAGAGAGAGGCTGGAACATAGCCTTCCCTTTGGAGGTAGCCTGGCCCGGNGGGCAC

Table 1

TGTGATCTCAGACTTCCAGCCTTCAGAACTGTGAGACAATATTTTATTGTTTAAGCCAC  
T  
TATTTTTTGGTACCTGCCCG  
Sequence 382  
NGGCGGCCGAGGTACTTTTTTTTTNTNTNTTTTTTTTTTGGAGACGGAGTTTCACTCTTG  
T  
GGCCCAGGCTGGAGTGCAACGACACGATCTCAGCTCACTGCAGGGCTNTGCCTCCTAGGT  
TCAAGCTATTCTCCCTCCTCAGCCTCCCAAGTAGCTGGGATCACAGGCATGCACCACCAC  
CNCCNNGGCAAATGTTTTTTTTGGATGTTTAAGNCNGACGTGGAGTTTCTCCATGTTGGC  
CAAGGCTGGTCTCAAACCTCCTGACCTCAAGGNGATCCACCNTGTCTCAGCCTTCCAAA  
GNGCNTGGGGATTATAGGCNATGGAACCAATNAACGCCCGGGCCGCAATAAATTTGTT  
ATACANNACTACCATGNAGTTAAATCTGCNANTANNATTGGGACCGAATGGTNTAATCCC  
TTCNTACTTCTTTAAATTNTTCCCAANNNGACCTTCAATTAATAATAATAAAAATTNGGA  
TCCTNTTTTTTAAAAATGA  
Sequence 383  
CTGCCGAGGTACTCACAGTCACNCAAATTCNGNGGGTGGNTACACGGCTCTCCATTCTTC  
TTCTTGGCTTTACAGGTTCCAGGNCAAGAGCTTTACCCATAATTAAGNGNNTTCTGAGG  
ATNATCCGNTACATAAACNACACCTCCTCTNGAACCATCCTTGGGGCCTTCATGGGGGT  
GGGCATTTNAGGNATCCCTTACNAACAAGNCCCCCNTGGTGNCGGNCTTTCCAGAAGCG  
GCCTTTGGTGNAACCTTCNTCCCCAAAATAAANAACCAAGGGACAACAACATTTGNGGT  
CANNGGTNACCGAAANGAATCAATTTCAATTTTCCAATATGCNTCGAAAGGGGTTTTTC  
CCACTTATTNCACACCTTCTTGNGGGCCNNGAACCTTTCTTTCAAATATTAANCCCC  
NC  
AAAATTGGTCACCCCAAATCCTAATTTCTTTCCAAACCTTTCTTCTTGGCCCAT  
C  
TTTTCCCTTTTGAANCCTGGAAGAACAAGGTCTTGAATCCAANTTTTTCCGGGGN  
CN  
NCTCCTAAAAAACTAANNNGGAATNCCCCCCCCGGGCCTGCAAGGGGAAATTTCCNNTA  
NTCAAAAGCTTTAATCTNATTACCCCNCCCAACCTTCCAAAGG  
Sequence 384  
AGACTGCAGGAGATGTGGGCCGTGCCAAAGAGATGGATGAGACTGTTGCTGAGTTCATCA  
AGAGGACCATCTTGAAAATCCCCATGAATGAAGTGAACAATCCTGAAGGCCTGGGATT  
TTTTGTCTGAAAATCAACTGCAGACTGTAAATTTCCGACAGAGAAAGGAATCTGTAGTTC  
AGCACTTGATCCATCTGTGTGAGGAAAAGCGTCAAGTATCAGTGATGCTGCCCTGTTAG  
ACATCATTTATATGCAATTTTCATCAGCACCAGAAAGTTTGGGATGTTTTTCAGATGAGT  
A  
AAGGACCAGGTGAAGATGTTTGACCTTTTTGATATGAAACAATTTAAAA  
Sequence 385  
GTACTCCGTCTCAGAGGANGGGATGCAAATCTTCGTGAAGACACTCACTGGCAAGACCAT  
CACCCTTGAGGTGAGCCCAAGTGACACTATCGAGAACGTCAAAGCAAAGATCCAAGACAA  
GGAAGGCATTCTCCTGACCAGCANGAGNGTTGATCTTTGCCGNGAAAAGCACGCTGNGA  
AAGATGGGNGCCGCCACCCTGTGCTTGNACNTANCAACAATCCCATGAAAGGAGGTCTAC  
NCCTGGCACCCCTTGG  
Sequence 386  
CTTTTGAAGGCCCGNTCGCCCGGGCAGGTACTCCCTGATAAAGGGGAATTTCCATGCCG  
TCTACAGGGATGACCTGAAGAAATTGCTAGAGACCGAGTGTCTCAGTATATCAGGAAAA  
AGGGTGCAGACGTCTGGTTCAAAGAGTTGGATATCAACACTGATGGTGCAGTTAACTTCA  
GGAGTCTCATTCTGGTGATAAAGATGGGCCGTGGCAGCCCAAAAAAAGCCATGAAGA  
AAGCCACAAAGAGTAGCTGAGTTACTGGGCCAGAGGCTGGGCCCTGGACATGTACTCT  
CAGAATGTTTGTATATGCTTCTTGAATGCATATTTTTTAATCTCAAACGTTTCAATAA



Table 1

AACCATTTTTTCAGATATAAAGAGAATTACTTCAAATTNGAGTAATTCAGAAAAAACTCA  
A  
GAATTTAAGTTAAAAAGTGGTTTGGACTTGGGAACAGGACTTTTATACCTCTTTTACTG  
T  
AACAAGTACCTCGGCCCCGCTCTAGAACTAGTG  
Sequence 387  
TCCTGTATTGCCTTTTTAATCTTGCTTGTTAAGNACNTTTCAGGGATTGTCATCATTG  
A  
TCATCTGTAAATTGTCAAGNACTAAGGTCCTAAACCTTAATC  
Sequence 388  
CCTTCCCNCCNGCGAGNCCGCGNGGGGAGATAAAAAATATCACCAACATAATATANCACGG  
ACTAACCCTTAAACCTTCTGCNTAATGAATTAACNAGAAATANGGGGGCAAGGAGNGCC  
ANAGCTAANACCCCTNAACCAGACGAGCTACNTAAGAACAGGTA  
Sequence 389  
CACGCTGTAACTCTCAGCACTTTGGGAGGCTGAAGCNGGGCCGGATCACGAGGTCAGGAG  
TTTCAGACCACCCTGGCCAACATGGTGAACCCCGTCTCTACTAAAAATACAAAANNNGG  
GTGTGGTGGCGGGCACCTGTAATCCAGCTACTTGGGAGGCTGAGGNGAAGAATCGTTTG  
AACCTGGAGGCAGAGGTTGCAGCGAGCCAAGATCACGCCATTGCACTCCAGCCTGGGTGA  
CAGGGCAAGACTCTGTCTCCAAAAAAAAGAAAAAGGAAAAAGCCTTTCTTGATGCTG  
TTCCCCATTTCTCCACTAAACGCCTGCTTTTCTTAACCTCCACACCGAACCAACCTGA  
AA  
TATTTTGGCNAGAATGCCAACAAGAATTGAAAGAAAAGATGCTTTACAAAAATAACAATA  
TAAAAAGCAAATTATATTATCCCTTTTATCTCCATTCTTACATTAAAAAATAAATCG  
GCCGCTCTAGAACTAGTGGGATCCCCCGGGCTGCAGGGAATTCGATATCAAAGCTTAT  
CGATACCCGTCCGACCTCGAGGGGGGGCCCCGGTACCCAGCTTTTTGGTCC  
Sequence 390  
AGTACNCGGGGCTTTTCTCAGGCGGNGGCATGGCGGGACAGGAGGATCCGGTGCANCGGN  
AGATTACACAGGACTGGGCTAACCAGGGAGTCGGCCGCTCTAGGGGN  
Sequence 391  
CGCCGAGGTACGCGGGATGGGATTTCTGACCATTGCCCCTGCCTCTTGCAAAATAGGTCT  
AATGGCAGGATGGTGTCTAATTAAGGCTACCAAGACTGCCATTGTTCCAGGCTGGGCA  
GTTCTAATGGGGGCAGACAATAGTGCAAAAAAATTTACATTTTATCTTTAGAGTGTC  
A  
GGGTCAAATTGATTTCCATGGTTGAGGATGTAGCCAAGTGTGGAATCAGGTGGAATAGGT  
GGAGAGTTGCCCATAGTGGTTTGAAAAAGAGAAGAGGACTTTGAAAAGTGGAGGGCTCAT  
TAGGTGACCCAAATTTTACCTGGGGCATCCCCCTTTAGGGCCCCAACTTAGTCTGTCTAG  
ACATCTCTGACCTTAGATGGGTGCTGGCACCACTTTGGAATGGTTCCTCCATCACTGAG  
GACCTGACTTAAAGTTTTTCTATCTCACTTAAACAACCCTTTAACGCTCTCAACTTAG  
G  
CAATAATAAATTCCTTTTCATGAATTCCTTCA  
Sequence 392  
AGCGCGGGGAGAGGCCGGTTTGCAGTATTGGGCGCTCTTCCGCTTTCCTCGCTCACTTGA  
CTCGCTGCGCTCGGGTCGTTTCGGCCTGCCGGCCGAGNCGGTNATTCAGCTTCACTCAAAA  
GGGCGGTAATTACCGGTTTATTCCACCAGGAATCAAGGNNGGATAAACGCAGGGAAAAAGA  
ACATGTNTAGTCAAAANAGGCCAAGCNAAAGGCCAAGGNAACCCGTTAAAAAAGGCCCG  
CGTTGCTTGGCGGTTTTTTCCATAAGGGCTCC  
Sequence 393  
NATTGGAGCTCCCCGCGGTGGCGGCCCGCCCGGGCAGGTACAGGACACAGGCACTCCTTTG  
TCTGGTAGAGAGGAGGAGGGGAAATGGAGCTATTCCAGGATACAAGGGATGGCACTGAGG  
GATGCATAAGTCCCCTGCCTCCCTTGCTCAACATGTTCTCCTCTGCCAGCCCAGTCAGC

Table 1

TTGGGGAGCTAGGTATCAGAAACCTGAAGGATCCAGCCCGCTTTGTCCTACTAGTGTCTA  
TAAGTCTCTGTCCTGAGATCCTGGGGCTCCTCTATTTCTAGAAGGGATGAGGTGCCATC  
AAAAATAACTTGGCTGGTGTAAACAGTTTAGAGAAGGAAGTCACACCTGTAGCCTGGCTGG  
CAGGCAGGTGGACATGAGGCTGAGAAGGGAAGCCAGATGTCAGAACATACTAGGCTAGCA  
TGCCTG  
C  
Sequence 394  
GTGGCGGCGGAGGTACCAGGCTGGCGACAGGTGCTACCAGGAGTGGGCTGAGGGGAGAAA  
AACTATCTCCCACTCTTTTGGCCCAGGCAATGTCAACGACTTCCACATTCCCTGGCCAC  
TTGCTGAGCAACCCAGGTTCCGGCTCTGTATAAGGACCCTCCCCTNCCAACCCCAACCC  
AGAGTGCAGTGCAAATCAACCAACAATTTACTGGTGGAAATGGCAATCAAAGGAAACAGTT  
AAACACCAACAATTNCTTAAAGCCAAAAATATTTTTCATGGAGTTGAACATTTTTCG  
A  
GTGTGTTTTTTTCAAGTGTAAGCAGTGACATTTTGTTCAAACAGAAGCAGCATCTAGG  
AATTCTGGCACTTGGGGTTCTAAGGGGGTTACAGGTATGCCATCATGGATTCTTCTCC  
C  
Sequence 395  
NGGGGCGGGCCCCCGGNGGGGTTANCCTTTCCATTTTNNANCAACCTTTTAAAAGCCCT  
TGGGGAGGGNGGGGTTAANGGGGAATCCCTTTNAAAATTTTAAATNTTNAAAAAGGG  
CCCCCATTAAGNAATTTCCCAAGGTTTTTNAAGCCTTTTTTAAACCCCTNAAGNACCAGG  
GNAAAAAGGTNGGAAAAAGGGCCANTTTTTTTTACCAAGGGNGGGGGGAGNNGGAAGGG  
CCAAANTGGGAAGGAAAAATTAANGGGCAAAACCAAGGAATTANATTACCGTTCCAAA  
AAAGCNTGGGGAACCAAGGGGGGCAGGAAAATTCAGNAAACCGTTGGTCCTTGGGCCT  
TATCAAGCCTTTTTTGGTTTTTTTTTGGACCTTACCTTAAAGGGCCCCAAACCCCTT  
T  
TTTTTAATTTCCCTCCTTGGGAATNGGGGTTCTTGGCCAAGNACCCCAAAAGGTTTCAA  
GGGAAAATTTTTTAAGGGCCCAAAAAAGGGGAATTTTTCCCCCAAAAAATNGGGGNATT  
CCCCCTTAATTAACCAATTCTTTCNAAAGGAAAAGGAATTANCCAAGGGGTTTTTGGG  
AAGGNAAGGGAAGGAAAAANGGCCCCCNCCAGNAAAGGGGNCCTTTTGGGTGGGAATTGGG  
AAAACCCCCCAAAAAAGGAAAAATTCNTTTTTTAAAAAAGGGAAAAANGGGGGGTTN  
TTNCCTTTCNAAAAAATTGGCCCAATTTNGGTTCCCAAGGTTNAAGGNAATTTTTTGG  
G  
GGGTTNAAAACCTTTGGGGGCCAANGGGGGGAAAAAAACCCCTTTTGGGTTCTTTGGG  
GGGNAAG  
Sequence 396  
TGGGGCGGGCCCCCGAANGGTTACCCCGCGGGGGGGAGGCCTTTTNTTNCCTTTG  
GGCCAGGGTNTTNCNTTTCCTCAAGNCAANGGAAACCCCTTTCTTTTNCCTTGGGTTT  
TTTGAAAAAANGGAATGGGGTTCCCGGGCTTGGCNTTTTTTGGGTTANGGGCCACCGC  
TTCAAGTTCTTGAAATGTTCCCGGCNCATGCTTCCCCGGGGCCCGGCTTCNTAAGNA  
AACCTAAGTGGGAATCCCCCGGGGGCCTTGCAAGGGGAATTCGATAATCAAAAGCTTA  
ATCCGGATAACCCCGGTCCGAACCCCTCGGAAAGGGGGGGGGGGGGCCCCCNGGGGTAC  
CCCCAAGCTTTTTTTGGTTTTTCCCTTTTTTAAAGTNGGANGGGGGGTTTTNAAAATTT  
T  
GGCCCCGGCCCGCCTTTTGGGGCCGGTTAAAATCCAATTGGGGGTTCAANTAAGGGCCTTG  
GGTTNTTTCCTTGGTGGGTGGGNAAAAATTTGGGTNTTAANTTCCCCGGCNTTCCAA  
CCAAANTTTTNCNCCAACCAACCAAAACCCAATTTANCCGGAAGGCCCCNNGGGGGNAA  
GGCCCAANTTAAAAAAGGGTTGGGTTAAAAAAGGGCCCCCTTGGGGGGGGGGGTTGG  
GCCCCNTNAAAAATTTGGGAAAGGGTTGGGAAAGGNCCCTTTAAAAAACCTTTCCAAAC  
CAATTTTTTAAAAAANTTTTNGGCCCGGTTTTTTGGACCCGGCCCNTTTCNAACCTT  
TT  
GGGGCCCCCCCCGGGCCTTTTTTTTTTCCCCCAAAAGGTTTNCGGGGGGGGGGGNAAAAA

Table 1

AA

Sequence 397

GTGGGGGGCCGGGGCCCGGGAGGGGTACCCCGCCGGGGGNGGCCTTTNTTTCCTTTGGCC  
AGGTTNTCTTCCCNAACAAGGGGAACCCCTTNTTTCNTTGGGTATTTTGAAAAAGGAAT  
GGGTTCNNGGCCTGGCTTTNTTGGGGTTAGGGGCACCGCCTCAAGTCCTGGAAATGGGTC  
CCCGCCAATGGNGTGGCCNGGCCCGCATCTTANGGAAACCTANGTGGGGAATCCCCC  
GGGGGCTTGCAAAGGGAAATTCNGAATATTCAAAAGCTTAATCGGAATNACCCCGGTCC  
GNACCCCTCNGGAGGGGGGGGGGGGGGGGGGGGGGTAAACCCCAANCNTTTTTTTTGGTTTC  
CCCCTTTTAAAGTNGGAAGGGGGGTTTTAAATTTGGGCCNGCCCGCCTTTTGGGGCCG  
GTTAAATTCATTNGGGGTCCAATAAAGGCCTTGGTTTTTCCCCTTGGGTGGGTGG  
AAAAAATTTNGNGTNATTNCCCGGCNTTCAACCAAAANTTTGCCCAACCCAACCA  
AANCNCAATTTAACCCGNAANGNCCCCGGGGGGGAAAGGCCCAATTTAAAAAANGG  
TTGGGTNAAAAAANGNCCCTTGGGGGGGGGGTNGGCCCTTNAAAAATNGGA  
AAGGGTTGGGAANGGCCCTTTAAAAACCTTTCAAACCCAANTTTTTAAANTTTTTGG  
GCCCCGTTTTTGNCCCGGNCCNTTTCNAACCCCTTGGGCCCCCCCGGGCNTTTTTNT  
NCCCCAAAANGTTCTGGGGGGGGGAAAAAA

Sequence 398

GCGGCCGGGTACAAAATTTAGAGGTTTCCCCTTTATCAACAAGAGACCCAGGTGCCAGCA  
TGTTACTACCAGATCCAGTTCTTCTTAGGACAGTGTGGCTCAAAGGGATGAGACCTTCCA  
GACACTGGTATCTGAGCATCTGTGGCCTGCCCCTGAGTTGTCAAGATAATTTCTTATCTC  
TGAAGGAGTCCAGACAGGAATGCTTCCACTGCTGGGTGGGTGCTCGCCCCCTTGTCTCT  
TAAGCGCCCGGCTCACCCCTTGCTAGCACAGGTGTCTTACACAGTTTATGGGACTTTT  
CTGTGAACTACCTGAGGGCAAGAACCATGTNCCACTCCCTGCTTGTCTCTCAAATATTT

A

Sequence 399

CNGCCGAGGTACNCGGGGAGAGAGGAAAAAGAACACAGATCTCGCATGGTTCAGATTTTTT  
TTTTTAGGTCCAGGAGTAAGATATATCATACNGAAATGAAAATTATAATTCTTCTTGG

A

TTCCTGGGAGCCACATTGTCAGCCCCACTTATCCCACAGCGTCTCATGTCTGCCAGCAAT  
AGCAATTGAGCTTACTTCTTAATCTTTAATAATGGGTCAACTTTTGCCACTACAACTT

C

AGGGGCCCACTTAATTCATGGANTCCACCTTTCTCTGGGAATTTTACAACAGCAGCAGCA  
GGCTCAAATTCAGGACTCTCCAGTTCTCTTTATCAGCTCTAGACCAGTTTGCCTGGAA  
CTGCTCCCAAAATCAGAATACCTTAACCAGGGAAGAGGCCAGTTTGGNCCCAAAGGGA  
GCCCCAAGGCAAGGGCCAAGGTTNGAATCCCNNTAACNGNNTTTAAAAACAACCCGCCTT  
TAAGAACACAAACCCAGGNCCCCANGACACCGTTGAATGCCCTTATTGTTATTTCTTC  
CC

Sequence 400

GACAGACAGTGCTTGATGTTTCATAAAAAATACAATGCCCTGGTAATGTCTGCATTCAACA  
ATGACGCTGGCTTTGTGGCTGCTCTTGATAAGGCTTGTGGTCGCTTCATAAACAACAACG  
CGGTTACCAAGATGGCCCAATCATCCAGTAAATCCCCTGAGTTGCTGGCTCGATACTGTG  
ACTCCTTGTTGAAGAAAAGTTCCAAGAACCCAGAGGAGGCAAGAACTAGAAGACACACTC  
AATCAAGTGATGGTTGTCTTCAAGTACCTGCCCGGGCGGTGAGCGGCNCGCCGGGCAG  
GTACGCGGGGGCTAACCAGGCCAGTGACAGAAATGGATTGAAATACCAAGTGTGTGAAGC  
TGAATGATGGTCACCTCATGCCTGTCTGGGATTTGGCACCTATGCGCCTGCAGAGGTTT  
CTAAAAAG

Sequence 401

CGGTGGCGGCCGGTTGCCTTGATGTACAGCAATTAGGAGAGTCACGAGGATGAAATA  
GATGAACCCGACCATGCAGTTAATCACCAACATCACTACTAGCCAGACGGGATGAACCA

Table 1

CAGCGTCACACAATACAGTGTTCTGTGTAAGTGTAACAACACACTGCAGCTGGTAGTA  
GAAGCCTCACGGGATACTCTGCGACAACACTACAGCAGCTGTTTATGGACTCACTAGGATTT  
GTGTGTCTCGTGGTGTGCAACTGCAAACAGTAACCTGCTATGGCCAATTGTGAAGAGAT  
GGGAGTCTCCCCGTATTGCCCAGGCCGGTCTCAAACCTCTGGGCTCAAGCAATCTCCCCC  
GCCCACTTCCCGAAGCCCTAGGATTACGGGAGTGAGCCACCGCACCCAGCCAGAAAAACG  
TTAAAAATTTGGAAAACCTTACTTTTTTTAATGAGCATTTTTGCATCAAGGGGGTTAC

A  
GGGACATTAGGCTTTTTTTTT

## Sequence 402

ATTGGAGCTCCCCGCGGTGGCGGCCGCGCCGGGCAGGTACACATATCCTCTGTGGGAAAAA  
CTGCTCTCAGAGTGTGCACTCTCCCCACAAGCCAGCGCTCAAACCTGGAAAAAGTATCTCA  
ATGTCCTGAATGTGGGAAAACCTTTAGCCGAAGTTCTTATCTTGTTCGGCATCAAAGAAT  
CCACACAGGCGAGAAGCCTCACAAAGTGCAAGTGAGTGCGGGAAGGGCTTTAGTGAGCGCTC  
CAACCTCACTGCCACCTACGAACTCACACAGGGGAGAGGCCCTATCAGTGTGGGCAATG  
TGGGAAAAGCTTCAACCAGAGTTCCAGCCTCATTGTCCACCAGAGGACCCATACCGGGGA  
AAAGCCTTACCAGTGCATTGTCTGTGAAAGAGATTCAACAACAGTTCCAGTTCAGTGC  
TCACCGGC

## Sequence 403

ATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCAAATTAAGTATTAATGAGGATTGAA  
CTGGGGCAAACAGGTTATTGTGAAAACAGTCAATATGTAAGCTCCTTCAAGGGAAATCAA  
CTACTGTTCTCAAGATTAGAAGATGTNCACACTCTTGCATTACCTCCCTAAAGGAGGA  
AACACCCATTAATTTCCCTTATGGAATCAATATGGAGTGGAATATGAAATGAGGAGAT  
GTTTTAGAAAGCAGGACANATCTACCTACCATTACTGGAATTAATGATCCTCTGGGC  
CCACTCCATTGATTCCGATCTGAGGTGAGGAGGACTAAAAGCAGCAGCAGGTTACAGAAA  
GACTGAATAAGATGAAAGTATGCTACGTATGTCTAGCTGGGGAAGGGGGGATCTGGAAAA

A

## Sequence 404

CCGCCCCGGCAGGTACGGACGCCAGGGATCCGCGCCGAAGCTAGCACGCANCTACCCA  
ACAGTCTACACAGCNCGACCAAAGCCCCCGCTACCCAGAGGAGTCGCTGGTGATNGGGG  
AGCTCAACCCTGTTNAGTAGCTCTGCTCATCAAGTGCTGGAGAAGGAGGTTGCGGCATT  
GTGCAGATACACCCCCGNAGGAACATCCCTCCTTATTTGTGGCTTTGGTGCCACAGGA  
AGAAGAGTTGGATTGACCAGGAAAAATTNAGGTGACTTCTCCANGGCTTCCAGCTTGGTC  
TTTT

## Sequence 405

CCGCGGTGGCGGCCGAGGTACGCGGGGGGCGGCGGCGGAGAGAGCTGGCTCAGGGCGTCC  
GCTAGGCTCGGACGACCTGCTGAGCCTCCCAAACCGCTTCCATAAGGCTTTGCCTTTCCA  
ACTTCAGCTACAGTGTTAGCTAAGTTTGGAAAGAAGGAAAAAAGAAATCCCTGGGCCCC  
TTTTCTTTTGTCTTTGCCAAAGTCGTCGTTGTAGTCTTTTTGCCCAAGGCTGTTGTGT  
T  
TTTAGAGGTGCTATCTCCAGTTCCTTGCACTCCTGTTAACAAGCACCTCAGCGAGAGCAG  
CAGCAGCGATAGCAGCCGCGAGAAGAGCCAGCGGGGTCGCCTAGTGTCATGACCAGGGCGG  
GAGATCACAAACCGCCAGAGAGGATGCTGTGGATCCTTGCCGACTACCTGACCTCTGCAA  
AATTCCTTCTCTACCTTGGTCATTCTCTCTCTACTTGGGGAGATCGGATGTGGCACTT  
TG

CGGGGTNTGTGTTTCTTGGTAAGAACTCNATGGAAACAGGCCTCCTT

## Sequence 406

TCCCGCGGTGGCGGCCGAGGTACAGTTCACAGTGCTTGATGATAATAAATGGTTATTTT  
ACTGGTTCATGTATTTACTATATCACTTTTTTTTATTAGAGTGCTCCTTCTACTTA  
TGTAATAAAAAAGTTACCTCAGGGAGGTCTTCTGAGGTCTTCCAGCACACGGCATTGT  
TATCATAGAAAATGACAGCTCCATGTGTGTTACTGGCCATTACCACCTTCCAGTGGAAG

Table 1

GATGTGGAGGTGGAAAGCATACTGATGATTTTGTCCCCGTGGAGGCCTAAGCTAATGTGT  
GTGTTTGTGTCTTAGCTTTCAACAAAAAAGTTTAAAAAGCAAAAAAAAAAAAAAAAAA  
A  
Sequence 407  
GTGGCGGCCGGTGTGCTCATCGTAGCCTCGGGTGGGGGATGCGTCTCCGCTTTAGCGCC  
AAGATAGAACTTCCTCAGACCACCGCCGCCCGCCCGCGTACCT  
Sequence 408  
GTACCTCCCTGGCTGAAGTCTCTACATAGCTCTCAGGAACCTTCGGAAAGGCATCCAAC  
CTTTACCAAACCTAAAGTTTTTTCCGATTCAGTCGCCTCATCTTCAGGAAACCTTC  
C  
TCTTCCTTCATATAGTCATGCTTGTGTTATGGTCCCAGCCTACCGCCATGTTTTACAGA  
A  
GCCCCGGTCCCGGGGCTCCCGCGTACCTGCCCGGGCGGCCGCTCGAGGCAGGTACTGAA  
TGACACATTACCTCCACACTCTCCCGACTAGG; NGTCAACAGGGCCACAGGGTTGCTTT  
CTGTCTTTGGTGGGGCAGGGGAGTTGACAGGGATGAGGGTCCAAGGAATTAAGCATGGAA  
TGACAAGAAAACANGGGAAGAGTTACCCTGTCACATAGTAGGTTAACTTTTTTAAGGGT  
TTGCAAGTAAGAGGNNTTTCGACCCTTTCNCTGGCTGAGCCANATCNCGGGAACCTTGAG  
AGCTTTTACTGGGATTTTCAATNNAAAAAATTAACAACAATGTCAAACNNGGTTTGA  
T  
NATTGGNTTAAAGCCTTTTTAAGATTCTTTTTTAATAACATTTTTCCCCGAAAAAAAAA  
AAAAA  
Sequence 409  
TTTTNNGGGGGAGTTAAATAAAATAAGCATGTCTNCATCCTTTATTCCTAAACATTTAC  
T  
TATGACAAATGTAANNACTGACAGAAATTTGAAAAATACCANGACACTTCTTAAATGATT  
TCCCTTGGTTCAAAATTTACCCCTTCTTGGGTTTCTNTTGCTTTTCAAGGGTAATNTAA  
A  
CTCTTCTTTTTTANGTTTGAACATATGCAAGTGCCAAAGGATTCCNCTGTAGTCTTTCC  
A  
AAGGGGGGGAAAGGGGGTNTATANAAAAAAAAAACACCTT  
Sequence 410  
GGGCAGGTACTGTGCAGTAGTAACCCATAATTCTAAATGAGGATTATGGATTTTTCTGGA  
AGATTCTTTTTTCTGTGGAACATGATGAGAAATGTTTAGGAGAGGGGACATAGCCATTT  
TTGTATGAAGACCAATTCAAGAAAAAATATATGTATGTGTGTGGGTGTATATGTGTGTA  
TATATGTATAT  
Sequence 411  
GGTACGCGGGGTGCTGGGATNCAGGCACGAGCCAGTGCGCCCAGCTGCCTNTGTTNTTT  
TATTAGCTGNTCTGGACTIONGGGGCTCCTTGGGCAGATGCTGTATTATGGGGATAAGCCA  
CACACTTTNTGAACTGGCCCGGTGAGGGGGGACATANCCATTTCTGTGCCCCCCATCAA  
NACCCACCTATTCTGAGNGTNNGCTCCTCCCCTGCTTGAGTNATGGCCACANATCTTGGC  
TCGGNNCTCCTAAGCTGCATGNTGAATTCCTGGGACAACAAGACTGGCTTGTGGTTCCAT  
TCTCCAGATCCTTGGGT  
Sequence 412  
GCCGGGCAGGTACTTAGAGTTTTCCAAGTATGTTCTAAGCACAGAAGTTTCTAAATGGGG  
CCAAAATTCAGACTTGAGTATGTTCTTTGAATACCTTAAGAAGTTACAATTAGCCGGGCA  
TGGTGGCCCGTGCCCGTAGTCCCAGCTACTTGAGAGGCTGAGGCAGGAGAATCACTTCAA  
CCCAGGAGGTGGAGGTTACAGTGAGCAGAGATCGTGCCACTGCACTCCAGCCTGGGTGAC  
AAGAGAGACTTGCTCCAAAAAAGTTACACCTAGGTGTGAATTTTGGCACAAAGGAG  
TGACAACTTATAGTTAAAGCTGAATAACTTCAGTGTGGTATAAAACCGTGGTTTTTA  
G  
GCTATGTTTGTGATTGCTGAAAAGAATTCTAGTTTACCTCAAATCCTTCTCTTTCCCC

Table 1

A

AATTAAGTGCCTGGCCAGCTGTCATAAATTACATATTCCTTTTGGG

Sequence 413

GCGAGGTACCTAGTCTANATGAGTTTGATGCTTACAGTCAAGGCTATTAGCAAATATTCA  
GGAAAAGTAAAGCCTAAAGAAGAAAAGAGGGAATGAATAGTTTGTCTAGAGATAATAAAA  
GGAAGGTGAATTTTAAAAAGACAAAAATAANGCTAGAAAAGACTGAGTGGAGAAAGCCT  
ACAGAAATTCAGAAAGCTAAAGAAATTGGAAATTAGATTGAATATAGATAGAAATGGGAG  
GACAATGCAGCCAATGAAAGACTGTGGGGACTAATAAAGGGAGAGCCCTGTGGTTTGGAA  
AGTGTCCCTTAATCAGCCTGCAGTGTGCAAAACAGAAACCCAGAG

Sequence 414

GGTGGCGGCAGGTACGCGGGATCCAAGATGAATGTGCAGAGAAAATAAAGAATCCAAAGT  
CATAGTCATGAGGACAGAATAAAGACATTTTATGCCTTTTTGTTTTGTTTTGTTTTCTT  
TTTGTGGAGAACAGGGTCTCTCTATATTGCCAGGCAGGTCTTGAACCTCTGGGCTCATA  
CTGTCTCTGCTTCTGCCTCCCTAAGAGCTGGGATTACAGATGTGAGCCACCATGCCCG  
GCCAGAATAAAGACATTTTAAACTAAAAAAAAAAAAAAAAAGAGTTTGCTTTCATTAA  
TCTTTTTTCTTTTTTTCGTTTTTATTTTTTAGTTTTTATTTTTTTGAGACGGAGTC  
TCACTCTGTCACCCAGGCTGGAGAGCAATGGCATGGTCTCGGCTCACCGCAACCTCTGCC  
TCCTGGGTTCAAGTGATTATCCTGCCTCAGCCTCCTAAAGTAGCTGGGATTACANGTGTG  
AGCCACCACGCTGGCCAGAATAAAGACATTTTAAACTTANGGAAAAANAAAAAN  
NNTNGNNNCNNCCCCCNNAAAAAAAAAAAAAAAAAA

Sequence 415

ACCGAAGACGAANGCCACTACATGCCCCCGCTACCTGCCCCGGCGGGCCAAAGGCCAAC  
AAGGGNAGTGGGGNCGGGCTGCANGAATTCGATATCAAGCTTATNGATACANGTTGACC  
TCNAG

Sequence 416

CCCCGCGGTGGCGGCCGAGGTACGCGGGGCTGCGGAGGACCGTGGGCACGCCAGGGTCGG  
TGAAGGATCCCAAAATGGCTGGGCGAAAACCTTGCTCTAAAAACCATTGACTGGGTAGCTT  
TTGCAGAGATCATACCCCAGAACCAAAAGGCCATTGCTAGTTCCTGAAATCCTGGAATG  
AGACCCCTCACCTCCAGGTTGGCTGCTTTACCTGAGAATCCACCAGCTATCGACTGGGCTT  
ACTACAAGGCCAATGTGGCCAAGGCTGGCTTGGTGGATGACTTTGAGAAGAAGTTTAATG  
CGCTGAAGGTTCCCGTGCCAGAGGATAAATATACTGCCAGGTGGATGCCCGAAGAAAAA  
GAAGATGTGAAATCTTGTGCTGAGTGGGGTGTCTCTCTCAAAGGCCAGGATTGTAGAATA  
TGAGAAAGAGATGGGGAAAGATGAAGAACTTAATTCCATTTTGATCAGATGACCATTGAG  
GGACTTGAATGAAGCTTTCCAGAAACCAATTAGACAAGAAAAAGTNTTCCTATTGGG  
CCTANCCACCCATTGAGAAATTATTAATTTGAGTNCAGGANGGAACCTCTGGCCCTTTGT  
ATTACCCATTCTGGGCCTTTAAATATTATTTTCCAAAAAGGAAAAAAAAAAAAAAAAA  
AAG

Sequence 417

GGCGGNCCTTTTTTTTTTTTTTTTTTTTTTTTGGAGAGGGAGTTTTGCTCTTTTTGCC  
GGGCTGGAGTGCAATGGCACGATCTCGGGTCACTGCCACCTCTGCCTCCTGGGTTCAAGT  
GATTCTCCTGCCTTAGCCTCTTGGGTAGCTGGGATTACAGGCGCCACCACCATGCCTGC  
CCAATTTTGTATTTTAGTAGAGATGTGGTTTCACCATGTTGGTCAGACTGGTCTNGAA  
C  
TCCTGACCTCAAGTGATCCACCCNCCTTGGCCTCCCAAAGTGTTGGGATTACAGGTGTAA  
GCCACCGTGCCCGGCCATCAGTTGTATTTNTATATAGTAGCANATGAACAATCAAATGN  
GATTAANAAAAATGCCNTTTTAAAGCCTTAAAAAAAAAAANTNTTANTGAATAAN  
TTTAAANCCAAAGGAGGGGNCAACCTTTCCNTGGGAAATCCAAAACNCNTNTTTGGNA  
NGAATTCAAAGNAGGNTGAAANCCCNCCCTTTTNCGGNGTTNANAAAAANANATTT  
TTTANNGGGGGNCCCNCCCAAANNATANTCCNCNGTGGGGGGCCCTCTAAAAANAN

Table 1

TTTTTTTTTTTTNTAAAAAAAAANNTTNTTTTTTGGNG

## Sequence 418

CGCGGTGGCGGCCCCGAGGTACGCGGGATTTTGAATGAATTCTCAACAAAATGTGCTAGCC  
ACTGGGGACGCAAAACAAGTAAGATCCCTGTTGCAAGAAATTCATTTTATNGNGAGGGAG  
GTTGGCATGGAGACTAAAATCTCAGGAAAATGAGATCCGTGTTAGATTAGAAGTCTGA  
TGTGAAATGGGAGGACTCAGGAAGGAGGATCGTCTTTACCTGAGGATTTCTAGCCAGAGG  
TCCCAGATGCCCTGGGCTGAGAACCAGCGATAAGGGGGCGTTCCCAAAGCAGACACAGGG  
ATAAGAACAGAGGAGGCAGCAGCATTGCACAAGCCCCAGGCACAGTGGCAGTTAGGATGG  
CTGGAGAGTAGGATAGTTCTATGGGTTGCCAAAAAATGTGATGTGCTTCATGTTTTCTC  
TGACTCATGGATCTGGTAGAGACCATAGACATGATATAGGACTAACTTGCCCATTTTTCA  
CANAGAGGAAACCATCCTTATGACTTACCTTAAAGTTTTTTGTTCTGTTTTGAAAGGAA  
A  
CCATGTGCTTCATGAAACCTACAGTTGGCCAGAAGAATGNTCCTGCCCGGCGCGGCGCT  
CTAAACTAGGGGGATCCCCGGCTGCAAGGAATTCGATTTCAAAGCTTATNGATTCCCG  
NCACCTCGAGGGGG

## Sequence 419

CCGCGGTGGCGGCCCCGAGGTACAGTATATTGACCTTAAAAATCAGTAAAGCAGTCATGGA  
AATAACAGGTCGTGTATTATTCATGGGCACAACTGACTCATGGCTGGGGAAGAAGCAGC  
CACCTTAGACCAGATGGACAAGCCAGATACTGCAGAGAAGTTTCTGGGCTTTTCGGGGAG  
CTCTAGATTCAATTCTGTAAAGTTATGATGCAGTTTTCTCCTTCCTCTCCTCACCTN  
C  
TNTGAGCACAGCTTTCAACAAAACTTTGCATACCCCGCGTACCTGCCCGGGCGGCGCGCT  
CGAGGTACTTCTCTGAGCATTGGCCTCTGGCTGGGATTATGCTTCAACAGTCTTGAAATG  
AGGTCCCTGGCTCCCTCTGTTACAAAGTCAGGGAATGTGAATTC AACCCGTGATATTCTT  
TTGTAGGTCTCTTGGTATGTGTTTGCCTCAAAGGAGGCTTCCAACTAAAAATTCATAG  
CAAAGAACTCCAAGGCTCCAAGAGATCCACCTTCTCATCATGCATCCACCTTCAATCATT  
TCANGGGGCANGGAGTCCAAGGTGCCACAAAGAGNNGTCCTTCTGGGAAGATGGAGCATG  
TACCTCGGGCCCTCTAGNACTAGTGGAT

## Sequence 420

GAGGTACGCGGGGGTCCGGCGCCATTTTGTCTCGGCAGCGGTGGCCCGTAGCTCCATCGCA  
TTTTATGTTTCTGGCGAGAAGGGAACGGAGTTTTTCATCAGGTAGATTGGTTTTTGT

## Sequence 421

GGGGCGGGCCGCGCCTNCCCGTGAAAGACCTCCTGCTGGAAGACCTCCAGGATGGAGAAG  
TGAGGCTGGGTGGCTCCCTGCGAGGGGCATTTCAGCAACAATGAGAGAATTAAAACTTCT  
TCAGAGTCAGTTTCAAAAATGGATCCCAAAGTCAGACCCACTCGCTACAAGCCAATGACA  
CTTTCAACAAACAGCAGNNGCTTAACTGTATTCTGTCAGCCAAAGAAACAGTTTTGTGTG  
CTGCCGGGCAAGCTGGGGTGCTTGACTCCGAGGGATCGTTCTAAATCCCACCACCGGGA  
GCAGAGAGCTACAGGGAGAAACAAAACCTTGAGCAGATGGACCAATCGGACAGTGAGTCAG  
ACTGTAGTATGGACACNAGTGAGGTCAGCCTCGACTGTGAGCGCATGGAACAGACAGACT  
CTTTCTGTGGAACAGCAGGCACGGTGAAAGTAACCGTCTGACAGAAAGCATGTGCACTT  
CNGGAAGCAGGCCTGCATCTTACCTGTACCTGCCC

N

## Sequence 422

ACTTCCCGCGGTGGCGGCGCCCGGGCAGGTACGCGGGAATGGGGAATTCTGGCCCTAC  
GTGCATTACAGGCAATGATGGGTTTGTGTGATGGTGTGATGAGATCCTCTACCTCATA  
ACAAAAGGACAGTGGGTAGACTAAGGCAGTAGCTCAAAGGGCTTTGCAAAATTTTAATAT  
ATTAAAAACAAGAGGCATCTGCTAGAAAACATTCTATTGTATACATACTGAAAACCCATA  
AGGTCCTGGATAATTTTTGTTTGATTATTCATTGAAGAAACATTTATTTTCCAATTGTGT  
GAAGTTTTTGACTGTTAATAAAAAGAACTGTCAACCATCAAAAAAAAAAAAAAAAAAAAA  
AGTACC

Table 1

T

## Sequence 423

NCCCGCGGTGGCGGCCCGAGGTACGCGGGAGAAGGAGATTACCTCAACATAAGAACCGTA  
TGTGAAAAGCCACAGCTAACATCATACTCAATGGTGAAAGACTGAAAGCTTTCCCTA  
AGCTCATGAAGAAGACAAGGAGGCTTGGTTTTGTGGCTTCTATTTAACATGGTAATGGGA  
AGTTCTAGCCAAAGGAAGTAAGCAAAAAAAAAAATCGAAATTAGACAGGGGGAAGTAAAA  
TTATCTTTTTGCAGATGATATGACTTATATGTATTATAGAAAACCTGGGCCAGGTGCA

A

TGGCTCTTGGCTGTAATCCTAGCACTTTGGGAGGCCGAGGTGGGTAGATTGCCTGAGCTC  
ANAAGTTTTGAGACCAGCCTGGGCAACACGGTGAAACCCCCCTCTACTAAAATCCAAAAA  
AAAAAAAAAAATTAGCCCGGGCGTGGCGCATGCTAANGCANGGAGAATTGCGTGGAATC  
TGGGANGGTGGANGTGCANTGAGCTTGAAGATCTCCCCCTGNACTTCCAGCCTNNGGGG  
ACAGANCCAAGACTNTTTNTTCCAAAAAAAAAAAAACCGGGGGGNGGACCCCTCAAGAA  
TTCNCCCCNCCCCCCCCGAANCCCTGGTTTTGAAATTAATAAATGGGGTTCCGCCAANA  
AAGTNCCNGCTTNTTCAATCAACAGGCCAAAAATTCCTTGTTTTAAANCCCTGCCCTT

T

AAAANTTTTAAAAAGGAACTTNGNATTCCTGTTCTTTTTATTGCCTCCAAAAA  
AAAAAA

## Sequence 424

CCGCGGTGGCGGCCGAGGTACTGCCGAGCCGCTCCTCCCGCAGCTGTGCCGCTCCTTGT  
CCTCCTCCTCATTGTCACTGCCAAACAGGTCAATGTCATCATCCTCGTCATCCTCTGC

TG

GTGTGGCTGGCTTCCAAGCTGGTGCCCGTGGGCTACGGTATCCGGAAGCTACAGATTGAG  
TGTGTGGTGGAGGACGACAAGGTGGGGACAGACTTGCTGGAGGAGGAGATCACCAAGTTT  
GAGGAGCACGTGCAGAGTGTGCATATCGCAGCTTCAACAAGATCTGAAGCCTGAGTGTG  
GGTACCTGCCCG

## Sequence 425

CCTCCCGCGGTGGCGGCCGAGGTACTAAGTGGTTAAGGATGGAAAAGAGCTAACAAGTGA  
CAACAAATACAAATAAGCTTCTTCAACAAAGTATCCGGCCTTAAGATCATCAATGTAGC  
GCCGAGTGACAGTGGGTATACAGTTTTGAGGTGCAGAACCTGTGGCAAAGACAGCTG  
CACAGCTTCATTGCAGGTTTCAGGTTGGTTGATTTCTTGGGCTTTTCCTTCATCATTAT

A

ATAATGTAGTTCTGATTTTCATAAATGTATATGGGTTGTTACATCTTCTATAGGATAAC  
ATGAGTCCGACATCTTCTGAATCAGCAAATTCAGAGGCAATACCATCTCAAGAAGCCACC

## Sequence 426

CTNCCGCGGTGGCCGGCCGCCCGGCGCAGGTACTGAATGTGGGAAAGCCTTTTGCCAGAAA  
CCACACCTGACCAACCATCAGCGAACACATACAGGAGAAAAACCTATGAATGTAAGCAA  
TGTGGAAAAACATTCTGTGTGAAGTCAAACCTCACTGAACATCAGAGAACACACAGGG  
GAGAAGCCCTATGAATGTAATGCATGTGGGAAATCCTTCTGCCACAGATCAGCCCTCACT  
GTGCATCAGAGAAGACACAGGGGAGAAACCTTTTGATGTAATGAATGTGGGAAAC  
TTCCGTCAGAAAGTCGGCCCTAATTGTTCCACAGAGAACCTATATAAGACAGAAACCTAT  
GGGATGTAATCAATGTGGAAAATCTTCTGTGTGAAGTCAAACCTCATTGCACATCATAGA  
ACACACACAGGGGAGAAACCTATGA

## Sequence 427

CCCGNNGGTGGCGGCCGGGTACCTTACTTAGCAGAGCACTTTGCAAACATATTACTTATTA  
GCAGAGCTCTTTGTAGACCTTCCACATCTGGCTGTCAGATCTTAAGGTTGTGAATTTAGG  
CTCCAGTTATATTCACTGGAGAGCATAATCCCACACGGGTTATTTATAAATACAGAGCCT  
CTGATTGGACGGTCTCCTGCCAAGAACTAGTAATACCCTTGTTTTAAATCTTCACAAGG  
TAAACTTAAAAAGCCAACCAAAACAAATTGCTCTCATTCTACTTTTAAATGGGCCAAC  
AGCATATGCTACAGTAGTAACATGTTTTTCGGAGAGTGTAACAACTCTGTTTACATTT



Table 1

G  
CCTCCTCGTGGGTTGATCGAAAATGTATAAACTGACTGCTTCTCGCCAGCCTCAGACAA  
GAAAGAGTGAGCTGCTGGTACCTGCCCCGGGCGGGCCGTCTAAAACTAGGNGGGAT  
Sequence 428  
GGCCAAATGCAGAAACGTCCCACATGCCACCAGGAGCAAGCTTCAAAATGTTCAAGCTTG  
CGGGGCANTNNGCAGAGAAATNCCAGGGATGTTCTGAAGGCCTNGATGATACCANTATC  
CTCATTATAAGATGAATGCACGGGGCCCNNTTGGCTGGATACCGGCNAACCGNNTTCTNA  
TTNTGCCNTNGNCAGCTCTCATTCGCTGAGAGGCATAGACCTTTTTGANGATCATTCCAA  
NGCTATAAGTCNTCTTAAGGAGCAAAAACCAGCTTCCTTGGTCTNTCTTGAAGNCCTTCA  
ACTTTATCTTTCAACTACCAAAGGGAAGGTNCAGGAACTTTCTCAATAACCGANGGAC  
CTTTAGGACATGAACCAGGTGNCTGGNTAGGGGCTGGAGGCCAGCCAGGGCAAGAAACA  
NAATGGCCGATANCCGTTTTTGGGGTCCCGCGGTACCNTTGNCCCGGGNCGGGCCGGCT  
TCTAANAACCAAAGTGGAANCCC  
Sequence 429  
CGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTGTGATCTCAACTGCTTTT  
A  
GCAAGTTGTGAATATACTTGGGCTTTCTGTCTTTCCCAAAAGCAATTTGGGATTATTT  
T  
CCTCCTTTTTTTCTGCATTTTCATATAAATACTGTCTATTCATACACAGTAGCATCTT  
CTGCAAGGGCCTTCTGGATTTCCAGTTTGGTCTGTTTCATGGCCTGCTTCTTAGCAGC  
TT  
CCCTCTGAAGGCTTTCACTCACAGAGGTCTCATCATCATCAGAATCATTCCCAAACA  
CTGATGGTTTTTGCAAAACAGGGTGCAACTGCTGTGTTTTCTTTGGCAAAATAAGCCCAT  
ACTACCTGCCCG  
Sequence 430  
GTGGCGGCCGAGGTACAGACAAAACCTACAGACTTAGTCTGGTGGACTGGACTAATTACTT  
GAAGGATTTAGATAGAGTATTTGCACTGCTGAAGAGTCACTATGAGCAAAATAAAACAAA  
TAAGACTCAAACCTGCTCAAAGTGACGGGTTCTTGGTTGTCTCTGCTGAGCACGCTGTGTC  
AATGGAGATGGCCTCTGCTGACCCAGATGAAGACCCAAGGCATAAGGTTGGGAAACACC  
TCATTTGACCTTGCCAGCTGACCTTCAAACCTGCATTTGAACCGACCAACATTAAGTCC  
AGAGAGTAAACTTGAATGGAATAACGACATTCCAGAAGTTAATCATTGAAATTCTGAACA  
CTGGAGAAAAACCGAAAAATGGACGGGGCATGAAGAGACTAATCATCTGGAAACCGATT  
CAGTGGCGATGGCATGACAGAGCTAGAGCTCGGGCCAGCCCCAGGCTGCAGCCCATTG  
CAGGCACCCGAAAGAACTTCCCCAGTATGGTGGTCTGGAAGGAC  
Sequence 431  
GGTGGCGGCCGAGGTACCAAAACAACAGCCCTCCAAACAATGATGACCAGTGGA AAAACA  
ATGGAGTCACCAAAACCTGGGACAGGCTCATGCTCCAGGACAATTGCTGTGGCGTAAATG  
GTCCATCAGACTGGCAAAAATACACATCTGCCTTCCGGACTGAGAATAATGATGCTGACT  
ATCCCTGGCCTCGTCAATGCTGTGTTATGAACAATCTTCGAGCGGCCGCCCGGGCAGGAC  
GCGGGAGTTCAAGAAGCTGGTGGTCAAGGAGGAGGAGGTGGAGGTGGCAGTGGAGGAATT  
GCAGAAGCTGGAAGTGGTCATATGAACTACATTCAAGTAACACCTCAGGAAAAAAAAGCT  
ATAGAAAGGTTAAAGGCATTAGGATTTCTGAAGGACTTGTGATACAAGCGTATTTTGCT  
TGTGAGAAGAATGAGAATTTGGCTGCCAATTTCTTCTACAGCAGAACTTTGATGAAGAT  
TGA  
Sequence 432  
GCGGCCGAGGTACCACTGCTTCCCGGGACTCTGCGTTGTTACCACTGCTTCCCGGGACTC  
TGCGTTGTTACCACTGCTTACTGCGTTCCAGCATTTCTTTCTCTTCTCGTTTCCTGT  
A  
GATTCCGGCTAATGGTTTCCCCTGGCATTGACTTCGTGATGTGTAACCTGAGTCTCTT  
CC

Table 1

TGAAGGGGGAAACGCATTCCAGAGCATTGTTCGGGCTCATGTAGGAATAGATCTTTGAC  
TGCCCGGTAAATCCCGGTACCTGCCCC

Sequence 433

GNGGTGGCGGCCGCCGGGCAGGTACAAATCTACCTCCCCACCAAATGTCCTTAGAGGGC  
CAAAGATGGCCTTTGTTCTTCATGATAACATCGCCTTTCTTTTTTTTTTTGAGACAC

G

GTTTCATTCTGTCACCCAGGCTGGAGTGCAGTTGTGCATTATGGCTCACCACAGCTTGA  
ACCCCCAGGCTCAGGTGATCCTCTCACCTCAGCCTCCCCAGTAGCTGGGACTACAGGGGC  
ACACCATCAAGCCCCGGGTAATTTTTGAAATTTTTATAGAGACAGGATTTTACCATGTT

T

CCCAGGCTGGTCTTGAATTCCTGGGCTCTAGTGATTCTCTGCCTTGGCCTCCCAAAGTG  
CTGGGATTACAGGCATGAGCCACCACACCCACCTGTCTATTTTACAATTTTCTTTGAG  
CTCTTTTTTCCAGCAGTCATGAAGCTGGCAAATGGCAGAACTGGAGCTAGAACTGCTGA  
CTCCCTTTATCTTTCCATAGCACCCCAAGC

Sequence 434

NCGCGGTGGCGGCCGAGGTACTTTTCTAAAAGCTCATCCACTCTATCATTTAGATATCCA  
ATTTTCAGAATGTGCTCAACATTGGCCACTCCATCTGCCATTCTTAAGTCTCCTTGGG

AG

TCTCCAGAAGAATTATGTTACTATTGTCTTTTAGTTGATTGAAATATTCTGTATTCCTC  
AAGGCACCATCATGTTTGTAAATACATGAATTAGTTCTCCTTTAAATCCTTTGAGCAC

C

CCCTATGAAAAATAAAATCTTTTGAACAGGCTTTAAAAATTCTATTTGTTGGATTTTCA  
TATTTTGGAGCTCTTAATTGATGTCACTATTATTTTCATCATATTTGTAAATACATCTTTG  
ATACTAGAGATCTCAAAGCACTTAAGTCCATCACATTCACCATAGCTAAGAAGGGCTCGG  
AGAAGTAAATGATTTTTTAGATACTATTTTAAA

Sequence 435

CCCGCGGTGGCGGCCGCCGGGCAGGACGCGGGGGTTGCTCAAACCGAGTTCTGGAGAAC  
GCCATCAGCTCGCTGCTTAAATTAACACAGGTTCCATTATGGGTCGACTTGATGGGA  
AAGTCATCATCCTGA

Sequence 436

GTGGCGGCCGAGGTACGCGGGGGAACACCACCCAGTGTGGAGCAGCCAGCCAAGCACTG  
TCAGGAATCCTGGGAAGCACCTCCAAGTGAAGTGCAGATCTGGAATAATAAGTGNGGGTA  
GATCTGCCCATAGAGCTCACTTTAGACCGGCCTATACTCCTACAAGGAATTGNGGTAGGG  
ATCTTNTACTCATCCTTGGCACAATAAGAATGGCCAATGCCCTTTCTAGTTGTTGGGGG  
AAGGTCTTTGAAGGCACCATTTNCCCCATCCCCCTGGGGGAAGAAATGGGGTCCCTAAG  
GTAACGCCANGGTTTTTTGGGGGTTNAATTTGCAAAAATCCCCTTTTTNGNGGGNTANNA  
CACAAATGGGCTNNGCAATTTNTTNTTNTNCCCCAATTNGNTCAAAANGCCCAANAAAAAT  
TTTTTAACCGGGGTTGGGGGGGGGGCAAAATTTTTTGGGCCANNTTGGCAATTCNCNGGG  
ANAAAAAATTTCCCAANGGGGCCNGNNGTTCAANTTTCTTNTAACCCCGTTTNAACCT  
TCNCCCCCNGTTTTTTTTTTGGANCCCTTAAAAAAAACCATTTTTTTGG

GG

Sequence 437

GGCCGAGGTACCTTTTTAGAAGAGAAAAGAATCTTGAATTGTATATATTTATTTTGCTT

T

ACAGAAAAAATGGTTTCGTAAATAATTTGCCTATTTTGGTTAACATAGCACATGGAGAT  
AATCATCTGAAAGTTATAGGGCACTGCCACTGCTGAATCAAGAGCATGCCCAATATTTGA  
GGTGGCTCTGATTTCTGGCAGCTGAACCTCGGGTAGTCCAGTGGCCTAGCTGGTCTCGCC  
CG

Sequence 438

CGGGCAGGTACGCGGGGAGGTGCCGCTGTTGCTGCTCGTGTGAATCTAGAACCGTAGCC

Table 1

AGACATGGGACTGGAGGACGAGCAAAAGATGCTTACCGAATCCGGAGATCCTGAGGAGGA  
GGAAGAGGAAGAGGAGGAATTAGTGGATCCCCTAACAAAGTGAGAGAGCAATGCGAGC  
AGTTGGAGAAATGTGTAAAGGCCCGGGAGCGGCTAGAGCTCTGTGATGAGCCGTGTATCC  
TCTCCGATCACATACAGAAGAGGATTGCACCGGAGGGAGCTCTTTGGACTTCCCTTGGCAT  
GCCGAGGGGACCCATTTGCGTGGGCCACAAACNTCTTTAAACAACCTTGGAAATAAAAT  
GTGTGGGACTTTAAATTTACCCCCAANGTTCTTTCANTNAATTCCTGGGGGGCATTCAAG  
AAATAATTTTCTCTTTATTGGGGTTNTTTGGGGAATNNTAACCCCTTCGGGGCCCCG  
CT

TCTTAAGAAACCTTGNTGGGGGANTCCCCNCGGGGNCTTGNCAAGGGAAATTTTGGAT  
ATTCTAAGGCCTTAATTCTNGATTACCCCGNTTCTAANCCTTNGAANGGGGGGGGGN  
Sequence 439

CGAGGTACTCTGTGATTTACCTAGATTTGGAGAAGGTGAGGGAGGAAAGGCTGTCCTNT  
TTGATCCCATAACCATGCAGGGGCAAATGGCTGCCAGCATAACAAAATAAGAAGGAAAGAA  
AGAAAAGTGGGCCAGGCGCAGTGGCTCACTCCTGTAATCCTAGCACTTTGGGAGGCCGAG  
GTGGGCAGATTACTTGAGGTCAGGAGTTCAAACCAACCTGGCCATCATGGTTGAAACCC  
CGCCCCACCAAAAATACAAAAAATTAGTGGGGCGTGGATGGTGTATGCCCTGTAATCCCA  
GTCTACTTTGGGAGGCTGAGGCCAGGGAGAAATCNGCTTTGAACCCAAGTAGGCAGNAGG  
GGTNGNCATGTTGAGCACGAGTATCGTTGCCCACTTGCACTCCAACCTGGGCCGACAGNA  
GTCAAGTACTCTGGGNNAANAAAAANATAAACCCAGGAAAAAAGNGAAGGNAAGGGAA  
GGGGGAAAAGAAA

Sequence 440

GGGGCGGCCGAGGTACGCGGGATGTCTAAAATATCTTGTAAGGAGTTAAATAAACAA  
ACCCAGTCAATTAATAATTTTGAAGTATTGAGAAAACTCCAATGAGGGAAATAATAAG  
ATCTATAAAGGTCTTAAGAAAAATAATTTGAAAAAACATGTGGCTGAGTGTGGTGGC  
TCACGCCTATAATCCCAGCACTTTGGGTGGCCTAGGTGGGCAGATTGCTCGAGTCCAGGA  
GTTTAAGACCAGCCTGGGCAACATGGCAAAACCTGTCTCTACAAAAAATTAGCCAGGTG  
TGGTGGGACACGCCT

Sequence 441

GCGGTGGCGGCCGAGGTACATTGTAGCTTTGAACTCAGTGTAAAAAATTCAATCTGGTT  
ACACACTCTATCTTCTAGATCCCTTGAGACACTGTCTTCCTTGAANAAGNCCAGGTGAA  
ATGGCATTTCAGCTGTGGAAGGATTTTCTCCAGGGAATTCTTGGTGACCTCACTCATGAC  
TGCCCTCTGTGTCTCTGCTGTTCCGAAAAGCTGGTGACCAGGCTGATTTGTTCTTCAGAA  
GTCTTCCTGTCTGCCCCCGGCTACTGTTCTGCAGGTTAAGGCAGGACTGGAACCTCTCC  
ACAGCTTGACACATAGTTTTTCAGATTCAACACTAATTCTCCGAGTTTAAGATGTGCCTGG  
GCAGCATAAAGCTGTGCTTCTTTGTTTCTTGCTTTTAAAAATGATCTTTGCTAAATC  
C

AGCATATCCCAGGCAAGCTCTAGGTTCCCAATCTCCTCCTCCTCATTTTCTTGAAGAGAC  
TTGGTTTCAAGGACTGAATCATTTGGCAT

T

Sequence 442

TGGCGGCCCGCCCGGGCACGTACTTTTGCTGCTGAGGAATGGGAATCAAAAGAACGTAGT  
CTCCTGGTAACCACCTCAGATCTCTATTATTAGGCTAGATGTNGNGCNNGTACTCCCCCA  
GCTTCTTGCTCNNAACCTGCACTGTAAGTTGCCCTTCTATTAGCAGCCAAGGAAAAGGG  
AAACATGAGCTTATCCAGAACGGTGGCAGAGTCTCCTTGGCAATCAACCAACGTTGCTAT  
GAAATATGCCTCACACTGTATAGCTCATTATAGGACGTCAGGTTTGTGAAAAAAGTGN  
GGCAAGACATGATTAATGAATCAGAATCCTGTTTCATTGGGTGACTTGGATAAAAGACTT  
TTTACTTTTANAAAAAANANGTCAANAAANANGTCCCTNGGCNCGGCTCTAAGAACT  
AGTGGGATCCCCCGGGGCTGCAGGGAAATTCGNATATTCAAAGCTTATCCGATACCCGG  
NNGAACCTCCGAGGGGGGGGGCCCCGGGNAN

Sequence 443

Table 1

CCCGCGGTGGCGGCCGAGGTACATGAGAGACACTTTAAGCAGGCTCACAGGAATAGAGTG  
AGTGCGGACTCAGATTGTTTAAGCTATCTCTGAACCCATTCTACTGCGTTAACTATT  
T  
TATTGGTTTCTAACTACTACCACAGACACGGATACCTCACAGGTTCCATTATTACTCAC  
A  
GCGTTGTGGTCCGGGTTTCATCGCCATCCTGCTCCACGCTGTCATAATCCTCACGCATCCG  
CGCTCGGGACCCCTCTTCTATAAGGGACATACACGAGATCACCGAAAACCTCCTCTTCT  
CCCATTGTTCTATGAGGTGGGTGGGACTCCAAAACCCGTAGCTCCTGCCCTACTAGGC  
CACTCTACCCCAT

Sequence 444

CCACCGCGGTGGCGGCCGAGGTACCCAGCCCCACCCAGGCAAACAGCTCCGACATGTTTC  
GTAAGTGAGACAAGCCAGTGCAAGTTTTTTTTTCTTTNNTTTTNGGCTTACCTTCT  
T

GCTTAATGGAATTGTTATGGCTAAGCACATAAAGGCCAAAAAGGAGTTTTTCAAACCC  
AGCAAATCAAGTGCTTGGATTCTGAAGTGCCAAAAGAAAAGTGCATTTCCCTCTTAAGT  
AAAACCGAAATGAGTTTTCTTAGGTAAATGTATTCATCAAGCCCAGNATATAGAAAATAA  
AACCCAGGTTANTGGTGNAGCCGTTTAGGTCACCTGCATCATTTTCCAGGGAAAGATTCA  
AACCAAAAATACCAGTNCCCAGNCCAGGACTCACAATGTGTTGGANTAATATTATTATTA  
AAAGCAAAAGGAGGCCCNCCCCACCAAAGGCCAAGCAGCTGGGNTGGAAAATAATCAA  
GGCCTGGTCCCACNCCCGTNGGGTAATGCCCAAATTCGGGGGGGAAAAATATACCTNCCC  
TTTGGNAAAAAACCTTGGGAAAGAAATTCCTACCCTTNGCCTTGGGGAAAAAAA

Sequence 445

TCCCCGCGGTGGCGGCCGCGGGCAGGTACTTTACTAAAATGACTGCATTCTTTGGATT  
CTTCAGTCTATGGTTCAAGTCACTAAAGATTCATTTTTGTTGAGTCCTTATGAGAAACA  
G

NAGTATGAATCTTGACGGTTTCTGCCCGTCTAATGGCAGAGCTCTCTGACTTGGGTGTA  
TGCTACCAGGCTGGGTTCAAGTGAGAAGTTCTGGTCAGTCTTCTGTGGGTGAAGGTTCA  
ATATCAATTCTGTTTCAAAGCCTTTGTGATGCTATTTGAATCTTTGCTCGGTATATGCC

A

CCCAGTGGGTCAAGTCTGGGACCTAGGTGGTGAGCTATCCATAAGTTCATTCTCAAACC  
GTCTTTACTGCACTGTTTAGGGTCAGATACNCAATTATATACNACTTTGGGTGAGCT

CA

GGAGTTTATAAGCTTTATGGGCTTTGGTGTTTTGATTTATAAACAGGAGTTTATNGAAC

T

TTATGGGGTTTGCTTCCTCTTTCTGCCCAGGTTCCCTGGG

Sequence 446

GGTGGCGGCCGAGGTACGCGGGGAGACACAACCTTCTGGGCTTAGATATTTCAGAATATC  
ACAACTAACTCTTAAAAATTTCTGAAGGCTGGACACCGTGGCTCACACCTATAATCCCA  
GCACTTTGGGAGGCTGAGGCAGGCAGATTGACTGAGCTCAGGAGTTCAAACCCAGCCTGG  
GCAACATGGCGTAACCTCGTCTCTACAAAAAATGCAAACATTTGCTGGGCTTGGTGATGT  
GTGCCTGCAGTCCCAGCTACTTGGGAGGCTGAGGCAGGAGAATCGCTAGAACCCATGAGG  
TGTAGGCTGCAGTGAGTCATGTTTGCAACCACTGCAGTCCAGCCTGGGTGACAGTGTGTAT  
TAGTTTGTTCATGCTGCTGATAAAGACATACCTGAAACTGGGAACAGAAAGAGGTCTA  
ATTGGNCTTACAG

Sequence 447

CGGCCGAGGTACGTTTTGTGACAGGCAATAAAATTTAAGAATTCCTAAGTCTAAGGGAC  
TTGCTCCTGATCTTCCTGAAGATCTCTACCATTTAATTAAGAAAGCAGTGNGCTGGNCGA  
AAGCATCTTGAGAGGAACAGAAAGGATAAGGATGCTAAATTCGGTCTGATTCTAATAGNA  
GAGCCCGGCTTCACCNCTTTGGGCTTCGATATTAATAAGACCAAGCTGAGTCTCC  
TCCCAATTGGAAATATGAATCATCTACAGCCTTCTGCCCTGGTCGCATAAAATTATGT  
CT

Table 1

GGTGTCTCAAGGCAATTAATAATGATTGTTTTAACACCAACAANAAAGAAAACATTATTA  
T  
CACNAAAANTAAGGTNCCCTGCCCCGNGGCNNGNCCGCTTNTANGAACTTAGGTGGGAT  
CCNCCCCGGNCTGCAAGGGAAATTANGNATTATCCAAAGCCTTATTCTGAATAACCCGTC  
CGAACCCCTCANAAGGGGGGNGGCCCCCGGTATACNCCAAGCTTTTTTGGTTCCCTTTTA  
AGTGGAGGGGTAAANTGGCCGCCGCTTGGGCGTAAATAAATGGGACNAATAAGCCTGG  
TTTTCCCTGNGGNGGANAAATTGGTTNTCCCGCCTACCAAATCCCACCACNAAACAT  
TACCGAAGCCCGGGGGAGCCAATAAAAAGTTGGTANAAAGCCCTGGGG  
Sequence 448  
CGGNGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTGTTAGTGTTTTCTGATGTCTTTT  
CTAACAAATCTTTGCCTGCCCAAAGTCTCAAAAACATTCTCACGTTCTAGATTTTTTA  
G  
CTTTAGCTTTTGTGTTTGGGACTATGATCCATATTTAGTGAATTTATTTTTGGGGGGGC  
A  
GAGTCCATGTTGCCCAAACCTGGTCTGGAACCACACCCAGCTAATTTTTGTGAATTGC  
GGGTACCAGCACACCGGCGCCGTCCTGGACTGCGCCTTCTACGATCCAACGCATGCCTGG  
AGTGGAGGACTAGATCATCAATTGAAAATGCATGATTTGAACACTGATCAAGAAAATCTT  
GTTGGGACCCATGATGCCCTATCAGATGTGTTGAATACTGTCCAGAAGTGAATATGATG  
GTCCTGG  
Sequence 449  
CGGCGGCCGAGGTACAAAAAGCAGGGGGCCAGCCCCAGCTGTTGGCTACATGAGTATTTA  
GAGGAAGTAAGGTAGCAGGCAGTCCAGCCCTGATGTGGAGACACATGGGATTTTGGAAAT  
CAGCTTCTGGAGGAATGCATGTCACAGGCGGGACTTTTTCANAGAGTGGTGCAGCGCCAG  
ACATTTTGCACATAAGGCACCAACAGCCAGGACTGCCGAGACTCTGGCCGCCCGAAGG  
AGCCTGCTTTGGTACCTGCCCGGGCGGCCGTCGATCTCCTTGTGTTCAAGCAACTTCTTG  
CGGTAGTCCTGAAGCGCCTTATCTCTAGGGTCCGCCATGATGAGAACCCCGCGTACCTGC  
CCG  
Sequence 450  
NGGTGGCGGCCGAGGTACTCCCTACGGCACTAGTCTACAGGGGGAAGGACGCTCTGTGCT  
GGCAGCGGTGGCTCACATGGCCTGTCTGCACTGTAACCACAGGCTGGGATGTAGCCAGGA  
CTTGGTCTCCTTCCCGCGTCAAGAGATAGAAAGACCAAGTCTTGTGAAAGACAAGTCTGA  
ATGCTCCACTTTTTCAATTCTCTCTCCATTCTTCAGTAAGTCAACTTCAATGTCGGATG  
G  
ATGAAACCCAGACACATAGCAATTCAGGAAATTTGACTTTCCATTCTCTGCTGGATGACG  
TGAGTAAACCTGAATCTTTGGAGTACCTGCCCC  
Sequence 451  
CGAGCGGCCCGCCCGGGCNGGTACAAATGCGTTTANGAAATGTTAGTATAAGGCTGATCT  
GGACCCAAACTAAACAACGTTAATCCTCTTCAAATCTAATTTAATATAGGGAATAAGAT  
TATTGAAAAAAATTTTTTCTGATTTCTTTTTCTGAAGGTTTTTTGTAGAAACCA  
TGGTAAAAAGGGAAAAGAAACCTTTGACTGGCGGGGGCAGGGGGAATACAAAAAAAAT  
CCCTTGATTTTTTAAATATACCTGAATATCAAACCTCAGAAAGAGTTATTTTTGTGAAAGA  
GGCAAAATTGGTCTTGAGCTGCTTCAGTCTATGTCTGAAGGTTTACTGAAATTATGG  
TC  
CAGTTTTAGGAGAAAAATTCACAGAAAAGTCAGATTGTAGATTTTGAGAAGGAAACTCTG  
AGGTGGTGATTTTCTCAAGGTGATGGTTATGAAGCTCAATGAGGGCCTGAATTGCTTCT  
TCCACAGATCCCAATTGAATGAGCGCCATTTGCGATCTTCTGAAAGAATTTAAAA  
Sequence 452  
GGGGCGGCCGCTAATGTNAGAAGTTAAGTNAGAACCTATATTGTACGAGGAACAAAAGCC  
AATCAGTGTCTTTTTGTCTTTTTTACATAAACTTTTACTACAAAAATTNATATATGGA  
TTTTGAATTTCCAGTCAAACCAATTGTAAACTGTTTCATTTGGTTCTATATTATGTAT

Table 1

ACATAATTTATCTATTATATATTTACATTAAATATATGCATATATAATGGATTTAATTT  
CCTTTNNGNACCCCATATNTAGAAGNNTCTTCATAANTTAATAAATAATCTAGGGCCAG  
CATTATGTTTGCTAGACCTGGNNTTGGCTCAATACTTAAAGTTAAAAGTTTCTGTCTTT  
T  
TTCTTGGACTTGAAACTGCCTANAGCGTCAGCCTCTCTGTTATTTNTNTCTATTNCTT  
T  
TTCCCCCATCAGTCTTTTAGCCACTTGAAGCCAAAATCTTAGTTTCTGTCTAGTNGA  
T

AAGAGTAAAAGGGGAAGGAG

Sequence 453

ACGGATACCCTGTTCCGCCCTTCTCCCTTCGGGAAAGCCGTGGCGCNTTCTCATAGGCT  
CACGGCTGNAAGGTAATCTCAGNTTCCGGTGTAAAGGTTTCGTTCCGGCTCCAAGNCTGGGCC  
TGTTGTGGCACC GAACCCCCCGGTTTCAAGCNCCGAACCCGGCNTGCGGCCCTTATCCC  
GGGTAACCTATACGTCTTTGAGGTCCCAACCCCGG

Sequence 454

NGAAGGCGGACGCCCCGGNCAGGTACGCGGGGACCTTTNACGGGCGGGGGGAGCTGAGGCT  
CCTGNCGNTATCTNTGATCCTTGCAACCCTGGCAGGAAGNTGGTAGGGGGNACTNTAACGG  
GAGNCTNCACATATTGCAGAAAAGAAACCACTTTGGNGNGTAAGACTTGGAAGAAAAGTA  
ACCGGTCACCTTTGGAACAGGGGTGGGAAGAAGCTGCCTCTCTTTTGAACCTNTTCCN  
AGGGACCAANTCTAACCCAGGTGAGGNNAACCNCTGGTNGATGTAAAGCCGGTGGCTTTGG  
AGGACAGAATCATCTAAGTGGGAANAAGATACACTAGGAAGGGNGCTGGGGGGGANTACCA  
TCAAGAGGGGAGGNGGGGATNACCTTCAGGCCGGGGGCTTNCGGNGGGGATGAAAGAAGGA  
ATGGGNCCGGACAGGTTTNGGGTNGGAGGGTATGAAGGCTTGGCNAATGGTGGGGAAT  
TTTGTAACNTTCGGGCCGGGTTTTAGAANCTNAGGGGGGANTCCCCCGGGGCTTNGGA  
AGGGGAAATTTTCGANTAATGCAAGGCTTAATANGAATTACNCGGGGGGACACTTCGGAG  
GGGGGGGG

Sequence 455

CCCGCGGTGGCGGCCGCCCGGGCAGGTNCGCGGGGAGGATCTCTGTCTTTTGTCCCTCA  
CCTGTCTGCCTGTCTCCTCTCCTTTCCTGCCTGGGGGGACTGTCCAGAAGACATCATCGT  
CCAGTTCCTCTGCATTTGAACAGCTGTNCCCCCACCCTCAATACCGTTTAGAGCAGAAG  
CCAGCAAATACTAATCGGTCAGGGACACGATAGAACTATTTTCGGCTTCAATGGGCCACA  
CAGGNCTTCATTGCAAGCTCCTCAAATNTGCTGTTTGTAGCTAAGGAAAGAANCCATTAT  
ACCNTGTGTNAANCAAAAATGAAATATTGGCNTGTGTGCCAATAAAAAACCTTATTNACA  
AACATTAATNGAGTNGGGCNTGGATATGACTTCACNANTACTGGTTAGTTTTGACAACCC  
CCCTGGNTNCTAGNAGTTAAAATCCCAAAAACCTNCTATTAGTCCCTCCC

Sequence 456

CGGCCGAGNACAACATGACATTTTAAACCAATCCAATCTAAAAATGTTGCCAGAATCCAC  
CTGTGGCCCNGAATCGNGTNTTGGTTCCTCTTCTACTCCNCTGCAGANGACCAAACCTG  
TCCCGCTGCCACTTTCCTCACTGATATTGGGAGGAGGGCAAGGCCAGCCGAAGTTCCAC  
TAAAAATGCCCCAGGAGAATAGGCACCNGGCTGGCTTGCCAAAGGGTTTNGGGTTTTATT  
GCTTTCTGTTTTTCTTTTCCCCGACAGCACAAAGAANGTAAAGGGGCAGTTAATTGGAC  
AGAGTGTTATTTTAAACATCTCTAATTGTAAATGNAATGTGGTTGGTTTGGGTTTCTA  
C

TGCAATTGGTGNGAAGCCATGCCGGNGGGGAAAGAAGAAACNTGACCCCAAGGNTAATTG  
AAAATNGGGAGNCCCCCTTC

Sequence 457

NCGATATTACTGTGCGAGAGGTAAAGGATATAGTGGCTACGATTACNGCCTCTCT

Sequence 458

CCCCGCGGTGGCGGCCGCCCGGGCAGGTACACGACAAAACCTACAGACTTAGTCTGGTGGA  
CTGGACTAATTACTTGAAGGATTTAGATAGAGTATTTGCACTGCTGAAGAGTCACTATGA

Table 1

GCAAAATAAAACAAATAAGACTCAAAGTCTCAAAGTGACGGGTTCTTGGTTGTCTCTGC  
TGAGCACGCTGTGTCAATGGAGATGGCCTCTGCTGACTCAGATGAAGACCCAAGGCATAA  
GGTTGGGAAAACACCTCATTTGACCTTGCCAGCTGACCTTCAAACCCTGCATTTGAACCG  
ACCAACATTAAGTCCAGAGAGTAACTTGAATGGAATAACCGACATCCAGAAGTTAATC  
ATTTGAATTCTGAACACTGGAGAAAAACCGAAAAATGGACGGGGCATGAAGAGACTAATC  
ATCTGGAACCGATTTTCAGTGGCGATGGCATGACAGAGCTAGAGCTCGGGCCCAG  
Sequence 459  
GGCGGCCCGGGCNGGTACGCGGGTCTGNGCTGGTTAGTGAAGGCTTTGTAGCTGAGC  
AGTTTCTAAATAACACAGCCACTCACTGACATACCATGGATTATGTGAACCTAATCA  
CGGTTCAAGGAAGGAGAACTTTGTGTGTTCTTTCCGAATAATCATTTTAGCACCATGACCA  
AATACAAGGGTCAACTGTATTTGTTGGTAACGGACCGGGGTTTCTTACTGAAGAGAAAG  
TTGTTTGGGAAAGCCTACACAACGTAGATGGTGATGGAATTTCTGTGACTCAGAAATTC  
ATCTTCGACCTCCTTCAGATCCTGAACTGTATACAAAGGACAACAAGATCAGATAGATC  
AGGATTATCTTATGGCATTATCTCTACAACAAGAACAGCAGAGCCAAGATCAATTGGG  
AACAAATCCCGGAAGGAATCAAGTGATTGGAACTAGCAAAGAACT  
Sequence 460  
GGCGGCCCGGTACGAATGTGCAAATTAAGCATGGTAACTGATATTTACATAAATATCA  
AACCAACAATTAGTTTATACATTGTCAATGACCTTCTAAGATATGTCATGAGTGGATCC  
A  
AGAATATCTTTCCCCAATGGAGAAGGTATTTCAGAGGCTAAATTCGACACTTTAAATG  
ACACACATCATAGGCTTTACCTGTTTGACCACTGCCTCAAATGTGTGAGATGTGATTT  
TA  
TGATCCCGCGTACCTGCCCCGGCGCGCGCTCGAATAGACTTCAGGGAAACAACACGTCCCT  
GAAAGAAACATGATTCCCCTCAAGCCACAAAGGATTTTCTCATCAAGTGTTTTACCTCT  
GCATTAGATTTGGACACAAGAAGAGGAGAGCATTTACTCAGGTAAAAATAGTTCTCTTAG  
TCTTCTCTCTAGTTACTAATTTTTAATTTAAAAATACAATTAAGTATGATCTAGTGATAA  
AAGTCACAAGACAGAAATAAGCTAAGTTCTCTCTTNTTTAGGGAACGCTGGTGGCAATT  
CACCA  
Sequence 461  
GAGTTTGAGAAAGCTGCAGAGGAGGTTAGGCACCTTAAGACCAAGCCATCGGATGAGGAG  
ATGCTGTTTCATCTATGGCCACTACAAACAAGCTACTGNGGGCGACNATAAAACAAGAAC  
GGCCCCGGGGATGTTGGACNTCACGGGGCAANGGCCAAGANTTGGANGCCTGGGAANGAG  
CTGAAAGGGACTTCCAAGGAAAGNANGCCATGGAAGGCTNTACATCAACCAAGTATG  
NAAGAAGCCTAAAAAGAAAAAATAACNGGGANTAAATGAGAGCACNTGGATTTTGGGNTAC  
NTGTGCCCCATGTGTTTTATTCTAACTGGAGNACAATTGCCTNGNNTTTTTCTAAN  
N  
ACCCGNTGGAATGTTGGGGAAATCTCTGGGGAAAAATAANCCAGNTAAACCAGCTACC  
TCAAGGGCNTGCTCACCCATACCG  
Sequence 462  
AGCCCTCCCCGCGGTGGCGGCCGAGGTACGCGGGATATTGTTCTGATTGCTGATGTG  
TGGACGGATACCAAGCGAGTGACACGAGAGCTCAAGGACAGGCTACAATACAGGTCAGA  
GACAATGGCTTATAAAGGTTTAGTGTGGTCTCAGGATGTGACAGGCAGTCCAGCCTGACC  
TTTCTGCACACTCCAGACAACTTCCCAGACAAGCTCCTTTGTGCCTCTACGTGGAGAGG  
GCGTGGAAGTTATCACATTAAGATGGAGGATTTAAAAAAAAAAAAAAAAAAAAA  
AAAAAGTACCTGCCCC  
Sequence 463  
GCGATNCCCCCTGGGAAGCTCCCTCGTGCGCTCNTCCTGNNCCGACCCTGCCGCTTACCC  
GGATACCTGTCCGCTATTCTCCCTCGGGAAAGCCGTGGGCGCTTTCTTCATAAGCCTC  
ACCGCTGTAGGNATCCTCAAGNTCGGGTGAAGGNCCGTTGCTCCAAGGCNNGGGCTGG  
NGGNGCACNGAACCCCCCGNNCAAGACCCGACCCGGTGGCGCCTTAACCCGGAAAACT

Table 1

AATNCGNCNTGGAGGTCCCAAACCCCGGGGNAGGACACCGACTTATCCGGCCACCTGGGC  
AGGCAGCCAACCTGGGGTAAACAAGGGATTAAGCAG

Sequence 464

CCCGCGGTGGCGGCCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTGGTTT  
T  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTNAACNGCNGCCNCCNCCATGAAAGAGGG  
GCCNCCACATNTTTATTGCATACNCAGGGGAATAACTTATTNTACAANGAACNCTCCTCC  
ATTNCGAGACCATGCCCACTTACAGAATGCANCCGNAATGCGGTAAATNTATTACAGA  
GGNTGGGGNGCAAGATGAGANAAGTTTCANCCCCAGGAATTTGAAGNGAGAATGATCTAC  
AAATNTCTTGACAAGGNGCAACCGGGCTTNGCTAGNNGGNCTGAAANAATTCCTGGC  
AAANCGTAGGGGGAGATTAATCTCGGAATTGACAGCAAGTTTGGGGACAGNGCAAAAN  
AGAGGGGTGACCCTGTGAAATTTGGTGCTGGGGGAACCTCTGANGCCCAATGNGGGG  
GCACCNCTTNGAGANGATNGGNTAAATTTANGGGGGATNTTTAACCCCTNTCCNNCC  
CCAACCAAAAAAGGG

Sequence 465

GGCGGCCGAACGCAGAGAAGGTNGANGATTGCACCATGCCGATTCGTCGAACTGTGAATT  
CTACCCGGGAACTCCTCCCAAAAGCAAGCTTGCTGAAGGGGAGGAAGAAAAGCCAGAAC  
CAGACATAAGTTTCAAGAGGAATCTGTCTCCACTGTAGAAGAACAAGAGAATGAACTCCAC  
CTGCTACTTCNAGTGAGGCAGAGCAGCCAAAGGGGGAACCTGAGAATGAAGAGAAGGAAG  
AAAATAAGTCTTCTGAGGAAACCAAAAAGGATGAGAAAGATCAGTCTAAAGGAANAAAAAN  
TTTTATNNNATTAAGTACCTCGGCCCGCTCTAGAAGTAGTGGGATCCCCCGGGCT

Sequence 466

TGGCGGCCCGAGGTACGCGGGGAGGTGCGTGCCTTCTCCCGAGGTGGAACGGGCGGC  
AGTCAAGCGCCGCGTCTCTGCCGTCACCCTTTCCTTGC

Sequence 467

GCGGTGGCGGCCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTGAGACAG  
AG  
TCTTGCTCCATCACCCATGCTAGAGTGCAAGTGGAGTGATCTCGGCTCACTGCAACTTCCG  
CCTTCTGGGTTCAAGCTATTCTCCTGCCTCAGCCTTCCAAGTAAGTGGGATTACAGGCAC  
ATGCCACCACGCCCACTAATTTTGATTTTAAATANAGACAGGGTTTGACCATGTTAG  
C  
CAGGCTGGTCTTGAACCTCCATCAGGNGATCTGCCCTCCTCAGCCTCCCAAGTGCTGAGA  
TTACAGGCATGAGCCACCGCGCCTGGCTGATTGNGTTCCTTCTCACAGATTTTGT  
CT  
GTTTTTGTTCCTGAACACTCAGCTGGACTGCATTTCCAGCTTCCCTTGCAAGTTAA  
GT  
CACAAGTAGCGCTGTGACTGGGTTCTGCCCGGTAGGAAGGTAAGCAGAAGTGAATGTGTA  
TCACTTCTAATGGTGTGGNCTCCCNAAACCTTCTAAAGGGGTATGTTCCCCCTTTT  
TT  
T

Sequence 468

TTGGAGCTCCCCGCGGTGGCGNTCGGTGTGCTGNGCTCAGCTGCCTTCCNANGGAGGANC  
NGATCGGCNAGTGCTCTGACTGCGTGGCCGACAANNGCTGNCGNAGAAAGAAATNAAANC  
CCTGAAACATGACAGNGAGTGNTGNAAAGTGTGGAAATGCCTTCTTAAAGTTNATNAANG  
TNAANTCAAANNACATTTTTTTTCAAAAANATAAATTTAGAATAANTGNACCTT

Sequence 469

CGGAGGAGAATGGTATCACTCAGGCTCTCAGAGTGACACTGAAGCAAGACACTCATGGGG  
TAGGACATGACCTGCCAAGGAGTTCACAAACCACTGGTGGAATGAGCTCTTCAACAAGA  
CTGCGGCCAACTTGGTAGTGGAACTGGGCAGGATGGAGTACCTTCAGGATTGGCCTGTT  
ATCTTCTTTAGAATAAGTTCATCTTAAAAATTTAAGAAGGTGGACATTTCAACACCAT  
C



Table 1

AAGTGCATTTAGGTGACATGTTTAAGTTAACTTGACTTCCTTGAATGACCTAGTTAGTA  
A  
ACTAGTCACTAGTAATTCGGTCACCAAGCAAATCAAGCCTGCAAGAAAGGAAGCCAATAT  
TCAAATGCCATGTTACCATCTAAACC  
Sequence 470  
TTGGAGCTCCCCGCGGTGGCGGCCGAGGTAAGTATTTATTGTCTACCTCTCTGGACTTG  
CTCCAGCATCCGGACCAAAACCATCAGTGCCACAGCCACGACAGAAGCCGAACCGGAAG  
TTGACAACCTTCTGGTTTCAGATGCCACCCAGACGGTTTCCAGTCTGTCCTGGACAGCT  
GATGAAGGGGTCTTCGACAATTTTGTCTCAAATCAGAGATACCAAAAAGCAGTCTGAG  
CCACTGGAATAACCCCTACTTGCCCCGAACGTACCTGCCCG  
Sequence 471  
TTGGAGCTCCCCGCGGTGGCGGCCGAGGTAAGTATTTTTTTTTTTTTTTTTTTTGGGAAGA  
CA  
CAAAGATTCAGACCACAGCCTACAGGGAGAGAGGATTTCTGAGGATGGTGGTGCAGTGTG  
AGTCCACGCAGGCCTCCTGGGCATAGGATGGAGCAATTCTATCTCACCTCAGGCCTAGCA  
CAAAGGGCTTCAGTAAACCACTGGAGTTTCTTCATTAGGATTCCATCCAGGATATCCA  
GAGGACAAGAGGCTGGCCAAGTGCAGGATTAGCCTATGCTCCCGTGCTGGATATAGGCTA  
CACGCAAGAGAAAGCTTGGGTGGGATCTCCTGATCCCGCTACCTGCCCG  
G  
Sequence 472  
GCCGGGCAGGTACTATGGGTGTAGTGNCTACTATTACAGTTAATNCNTCCTTTGTAGTGCG  
CTGNTAAATGCAGTGAGGATTGGAGCACTGTCCACTGAGTCTCTGTGC  
Sequence 473  
CAAATAATTATAATGTATTAAGTAACTCATACTGCCTGTCTTTTATAGGGGAAAAAATAAC  
C  
TNTTTTATTTTAAAGTTATAAGGGGGNTTACCTTNTAGNGTGCTTGGATGACAGGGAA  
AT  
TAGCCTACCCCATTTTGGTCTGGAACAGAAGACTTTCAAATTTAATATGGNCCAAGTGTG  
TTNACTANTTAAGGCAAGATCATGCTTNTGTGAGTTNACCCANTGNTTGAATACCGTG  
NACACCGATCGTGGCTCGNCTACAGCCTCCATGTNCCAGGCTTCGAGCAGGT  
Sequence 474  
GGCGGCCGCCCGGGCAGGTACGCGGGGGAGCTGAGCCGGTGGGTGAAGCGCGGCCACGG  
CATCCTGTGCTGTGGGGGCTACGAGGAAAGATCTAATTATCATGGACCTGCGACAGTTTC  
TTATGTGCTGTCCCTGTGCACAGCCTTTGCCTTGAAGCAACCCACAGAAAAGAAGGACC  
GTGTACTTCTAAATTCACCTTTATGTTTGTAGGCTTGGAGCTTCTTGATTATGGGTT  
T  
TTTCGTTACAAAATTCAACAACAGAATCAATACTTTGCATAAACATTATGGATGCTTTTT  
CTGTTTGTACCTCGGCCGCTCTAAACTAAGTGGATCCCCNGGCTTGACGAATTTTGA  
TATTAAGCNTTATCGATACCGGCGAACTCGAAGGGGGGGGNCCCGGGACCCANCTTT  
GGT  
Sequence 475  
TTGANGCCCTCCCCGCGGTGGCGACAGGGTTACATTGGTAAGGGTGACAGTTAGAAGGGG  
AAGTCCTTTTAGTGAAATAGATGAGAGGTTTTAGATCTGCACAAACCTTTTTCATGGAAG  
TCCAACCTTGCTCCTGGGTAGTTTAAAGGACGTAGTCCCATGTACCT  
Sequence 476  
NGGCTACACGCTAGGAACCTTGACGCTTACAGTGACAGAGCTCCCATTCACGAGGCCACC  
ACTCATCTCGATTTCTGGATCTCTAGGGAATGAGTAGAGCTCCACCTGGATTCCCTTT  
TC  
CAGTTTCTTATGTCCACAAGTCACTGTGCACAGATAAGAGTGTTCTGTTCTCAAACTCAC  
AGGGCTCAGGGTCATGCGTGGAAATGGGTCCCTTCACTCCTCACCTTTCCCGCTTCA  
GAGGGCTGTCTATCTGGGTTCTCCAGGGAGAAAGATGGGGAATTCACAGCCCATGGACAC

Table 1

TACCATGTCAACAATGACTGAAGTCTTCCAATCTGAGCCAGGCAAATTCNNGNGGGTCC  
AGGGGGGAGAATCTCAAACAGNTAAATGGGTTTTCTCTTGGAACAAATTAAATTTCCCA  
CCTCTTTTTNTTGNTTTTTCCCC

Sequence 477

NGGNGGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGGCAAAA

A

TATTTATTAATGATTTTTTAAGTTTGAACTTTATTGGAAGGAGTCCCTCTAATTCAC  
ACTTTCATCCTAGATAAATGGGTAAGAACCACATATGGAATATAAAGCATTGATTTTTT

A

AAAACCACATAGTAGCACAGTTGAAAGAAATGCAATTCTCCAGGGTCTTAGAGAATTCAA  
AGGNGGCATCTTAGGNGGGTCCTAAGGAAACCCAAATTACCAGGTCTCATGGGTTTTCC  
TTTTGGGTTCAAGGATTAGAAAGGAGTCAGNGGTTACCCACCTACCCTGGTTTTTTAGGA  
GGGGTAGGAATATTGAAACCTTTCCTACTTAGTCCANCAGGTTTTACCTGGTTCAAGGGT  
GGGNCCCCCAACCAAGGTTCTTTTTTATCTTCAAGCCCCCATTCTTGGCCCTCTT

AA

GNGGGGGGTGG

Sequence 478

TCCCGCGGTGGCGGCCGAGGTACCTGCATCAGGGATAAGAACCATTCCCCTCCCTTGT  
TCCGGTGTGCTCTCGCCATTGCACCATCCATGAGACGCACTCTTGATAGAAGTAAAT  
GCCTTGCTGAGAAAAAAAAAAAAAAAAAAAAAGTACCTGCCCG

Sequence 479

CTCCCCGCGGTGGCGGCCGAGGTACGCGGGGGGTGTGGCCTGCATCTCAGCTGGCCGCCA  
TCAGNGTAAATAGAGCTTAAAGTCATGGTTTGGCTGCATAAAATTTCTAACTTGGGT

T

NAATATTTGTAGNTGAAGTATCTGCTTTCATTTTTTTCACGTTATAAATAAAAACTAT  
GCTGGNCGGGCGCGGTGGCTCACACCTGTAATCCCAGCACTTTGGGAGGCCAATGTGGGT  
GGATCATGAGGTNAGGAGTTCAAGACCAGCCTAGCCAAGATGGTGAAACCCCGTCTCTAG  
TAAAGATAAACAAAAAATTAGCTGGGC

Sequence 480

GCGGTGGCGGCCGCCCGGNCAGGTACAGATGCAAACGGAGGTGTAGACTGNGCAGCTGCC  
AAAGTGGTGACAAGCAATCCAGAGGACCATGAAAGGATCTTAATGCAAGTCATGAACCTG  
AATGTGCCGATGAGGCCTGGCATTCTTGTCAGAGACAGAGTAAGGAAGTGTGGCCACA  
CCCTTAGAAAACAGAAGGGACATGGAGGCAGAAAAAAAAAAAAAAAAAAAAACGTAC  
CTN

Sequence 481

ATGTTTTGTGGCCAAGGTGAGGGCTGCAAGTGTCTTAAGGGTTGAAACATCANAATAA  
AGGTATGGTGGCAAGTCCTCTCTGCTAGGCTGGCTGGCAAGGCCCTATGTCTTGACCT  
AGGTGGTAGTTACAAGGGTATTTATTTGCCTTATAATAATCACTAAACTATGTTATT  
TGAGTNAGATTTTATGTNGTGNGNCNTTTAATTTACACAAAATTAAANCAAAAAGNA

A

CNAAANGTTGCNCTCNGNCTCGGNTTNTAAGTAAACCTAAGGTGGGA

Sequence 482

CTGAGAGATCCCCTCATAATTTCCCCAAAGCGTAACCATGTGTGAATAAATTTTGAAGTA  
GTAGGGTTGCAGCCACGAGTAAGTCTTCCCTTGTATTGTGTAGCCAGAATGCCGCAAAA  
CTTCCATGCCTAAGCGAACTGTTGAGAGTACGTTTCGATTTCTGACTGTGTTAGCCTGGA  
AGTGCTTGTCCCAACCTTGTCTGAGCATGAACGCCCGCAAGCCAACATGTTAGTTGAA  
GCATCAGGGCGATTAGCAGCATGATATCAAACGCTCTGAGCTGCTCGTTCGGCTATGGC  
GTAGGCCTAGTCCGTAGGCAGGGACTTTTCAAGTCTCGGAAGGTTTCTTCAATCTGCATT  
CGCTTCGAA

Sequence 483

Table 1

GCGGTGGCGGCCGAGGTACTCTTCAAAATTGTCAAGGTCATGAAAGACAGCAAAAAGTGA  
AGAATTCTTACAACTAGAGGAGACAAAGATTGGAGAAGAAACAATGACTGGCNGGGCAC  
GGTGGCTCATGCCTGTAATCCACTTTGGGAGCACTTTGGGAGGCCGAAGAGGACAGATCA  
TCTTAGGTTGGGAGTTGGAGACGAGCCTGACCAACGTGGAGAAACCCCATCCCTACTAA  
AATACAGAATTAGCTGGGTGTGGTGGTGCATGCCTATAATCCCAGCTACTTGAAGGCCT  
CGGCAGGAGAATCACTTGAACCCGGGAGGCCANAAGGNTTGTGGTGAGCCAAAATTGCGCC  
ATTGCACTCCAGCCTGGGCAACAAGAAGCCGAAATTTCTGTCTCAAANAATAANAACAA  
AAAAATAAGTACCTGCCCGGACCGGCCGCTTCTANAAGTGTGGGATCCCCCGGGCC  
TGCAGGGAATTCGATATTCAAGCTTATCGGATTCCGTNCGACCTTCGANGGGGGGGGCC  
CGGNTCCCCAAGCTTTTTGGTTC

## Sequence 484

GATGTGAACAAATGTGTCATTGCTCTCCAAGAGAAAGGATGTGGATGGCCTGGACCGCAC  
AGCTGNGCAATTCGAGGCCGGGCAGCCCGGGTCATTACGTAAGTACCTCAGAGATGGA  
CATCAGCGGCCCGCCGGGCAGGTCACAAGCTTTATTGGGCAACAGCAACGAGCCACGCT  
GGCAACAATGAAAAGTAGAGTCGCTCAGAAACACGAAAGATCATATGTGTGTCATCACAG  
CATCGAGAATTTAAATCATCTGGAAGTTCCTGCTAAATTAAGCATACTGTGCCNAGCT  
CCCCTCTAATCAAAAAACGCTTGTCTGNGAAAAATTTGCATGNGGGNTTACAGAGAGA  
GAGATCAACCAGGTGAGGAAATCACAAGACTCTTACATGAGTTTACAGTTAACCCCCCTG  
CACCAAAAAATAAATTAGCCATAATTTGGTT

## Sequence 485

TCCCGNGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTGGGAGGATACT  
T  
TCATTTTTATTTATATCGTGAGGTATTGTTGGATTGTTACAATGAAGTTCATTTCCT  
TTGTAATGAAGAAAATAATACAGAGGAAATAACAACAATAAACCTTTGGCCTGGGATTA  
TCATCCGGGCTGGGAAATTCATGTTGGGATGGCAAGGTTTTATTGATAACAAGGTTATT  
TTTTGGGGTTTATTATTGCAAAAAAAATTTGTTTCATTGGGAATTGCCCTCCTATTGG  
G  
CTTGGGCACCTTGCCCTAAGGGCCACTTTTACCAAGGGTATTTTCATCCCTTAAATCCC  
TCACCAAACAGGCCCTATTGGAAGGGGTAAATCAATTGGGGTCCCCAAGGTTTTACCAA  
GGAAAGCCCTTTTGGGGGNGGGGGGAAGAATTATTTGGGCTTTGGGATTATTACTTTCT  
AATTTTGGCCACCACCATTTTTTTTGGTTGGGGCAAAGGACCGGTTCCGGTAATCCGG  
GCTTGGGTGGATTCACCTTGGGTCAAAGGAAGCTTCTCATTGGGGCCAAGGGAGGTTT  
CCCTAATTTGGTTGGCTTGGNAAAGGAATTTCAAAATAATTCAAAAAATACTTAAGAAA  
TTTTTTNCCCCCA

## Sequence 486

TGGCGGCCGCCCCGGGCAGGTACGCGGGAGTGTGGATNGAACAGAAAATTGGAAATCATAG  
TCAAAGGGCTTCCCTTGGTTCGCCACTCATTTATTTGTAAGTTGACTGGGGTTTTTTCT  
G  
CTTAAAAATTTCAATTCTCGTGGAACAACCGCAGAGTAGAAGGAGAGGGTGACTTTACC  
GAACTGACAGCCATTGGGGAGGCAGATGCNNGTGTGGAGGTGTGGGCTGAAGGTAGNNGA  
CTGTTTGATTTTAAAAAGTGTGACTGTCAAGNTTGTATCTGTTGCTTTTNTCAATGATT  
C  
AANGNGATACAAAATGGGGCTTCTNTCANTCATTTAAAAAGGAAAAACGCCGACCATCCT  
TTCTAAGGATTCTCTGTGGGAAAAATGGACTGTCAATTAAATGGCGGGGTTTT

## Sequence 487

CCCCAGGGTTCAGTCCTCAAGGGGCCATCCTGTCCCACCATGCAGTGCCCCCTAGCTTAGA  
GNCTCCCTCAATCCCCCTGGCCACCACCCCCCACTCTGTGCCTGACCTTGAGGAGTCTT  
TGTGTGCATTGCTGTGAANTAGCTCACTTGGTGATATGCCTATATTGGCTAAATTGA  
AA  
CCTGGAATTGTGGGGGCAATCTATTAATAAGCTGCCTTAAAGTTCAGTAACTTACCCTTA

Table 1

GGGAGGGCCTGGGGGGAAAAGGGTTAGAATTTTGTATTGAGGGGTTTTTTGGTGTACCC  
TGCCCGGGGCGCGCCGCTCTAAGAACTAGTGGGATCNCNCGGGCTGCAGGGAATTCG  
ATNTCNAAGGCTTAATCGATACCCGTTCCGACCTCGAAGGGGGGGGGCCCGGTACCCAA  
NCTTTTGGTTCCCTTTTAAGTGGAGGGGTTA

Sequence 488

CNCGNGGTGGCGGCCGAGGNACTTTGTTTTTTTTNTTTTTTTGAGGGTGGCTTTAT  
TT  
TCAATATTTGTCTTATTAATATTTTCTTATTTTATAATGCAATTACAACNGNTTATAGGA  
GACAAAACAATATAAAACAAAAGAATGTTAAATAGGTTTTTTTAAAAAATAAGCTTGGTT  
GGCTTTGCAANGGAAAGTCCATAATAANTCTTATCCCCCCCCAAATATTAAGTTTTATT  
A  
CTTTNGCCACNTAGAGACCCAAAAAATAGCTTATTGGGGAATAATTANGTTATTTAAA  
AATANGCCTTAAAAACCACCAAGGAAAAACCTTACCAGGGCNTATTAATAATTAAACCA  
ATTAATAATTACCAAGGGTTTAAACCTTTTAAATGGGNGGGATNGGCCTTTAAAAACC  
AAA

Sequence 489

NGCCGACCGAAACCTGGTGAAGCCCTTTGGGCGATTGGTGATCACCCCTAGATCCGTGAA  
AGCTGGCTGCCCCCATCCGGGCAAGCAGGGCCAAGGTGGCATCTTNACATTCTTGAA  
CCCACCCAGTAACAGCAGCAGGTATTTCTTCTGGGTAAATGAAGAGCCTTTCGAAAAAAC  
TTTCTTGCCCTCAAAGTATTTACCATAAATCTCTTTAAAAGTGGACATGGTTCAAGAA  
T  
CAAGNGGGCTCAAGAAGTTTNGAAAGTAAAGNAGGTCATTTTCTTAAGTTTCAAGCTT  
TTCAAGTTTTGNTATAACTTTTCAAGCCCTCTGGCCCTTTTTCAAAAAGAATTTTCTT  
G  
GGAGGAGGTCCAAATTTTTTTCTTTTNGTTTNCATACNTTCTTTTTTT

Sequence 490

NCCGCGGTGGCGGCCGAGGTACCTGATTTTATTTTCTNAGTTTTCATCCGAATCCACTGGGG  
AATGGGACGATTTTGCTTTTGTTTCTTGCCAGGAATCGCTTAATCCTGAAAGTCTTG  
TG  
AGAAGACATGGCGAGCAGCGGAGTCAAGAACACACCACGATGGCGGAGAAAGGAAGAGGA  
GGCCCCGCGTCCTGCCCC

Sequence 491

ACTCCCGCGGTGGCGGCCGCCCGGGCAGGTACAAAAAATAAAAAAGGAGGCTGGTGGGAG  
AACTGCTTGAGCCCCAGAGTTTGAGGTTACAGTGAGCTATGATCACATCACTGCATCCCA  
GGCCTGGGCGATGGAGCGAACTGTCTCTTAAAAAATGGCAGGGAGTTGGGGAGCTGGGC  
AGGTGCAGTGGCTCATGTCTGTAATNCCAATACCTCTGGGAGGCCAGATGGGAGGGATC  
ACTTTGAGCCCCAGGAGTTTGAGACCNGCCCTGGGTTACACAGGGAGACCCCCGCTNAAA  
ATTTTAAAAAANTAGTCATTNCTTAGTGGGTGCNTTCCCTGTNGTNCCCCACTTCTTT  
G  
GANGGTTTNNNGNCCAAGGATTTCTTTTNGCCCCTGGANGGACAAAGGCTTTCANTGAGC  
CTTTTNNATTTTACCCCTTGGCTTTTAAACCTTGGGCCATATNAATTAGAANCCCTTN  
T  
CTTTTAAAAAATAAAAAAANGGGGGNGGGGCNCNCCCCCTNTTTTTTTTTTGGCCCA  
ANCNCCCNNTTTTTTTTTTT  
N

Sequence 492

TCCCGCGGTGGCGGCCGAGGTACATGAGAGATAATGTTATGACAAGAATAGTTTCTGCAA  
CATTAAGTATGGGTCAAAAAAGAAGAAATGGGCCAGGCGCGGTGGCTCATCCCTTTGGG  
AGGCTGAGGCAGGTGTATCACAAAGGTCAGGAGTTCGAGACCAGCCTGACCAATATGGTGA  
AAACCCATCTCTACTAAAAAACAACAACTTAGCCAGGCATGGTGGTGCACGCCTGTA  
ATCCCAGATACTCAGGAGGCTGAGGCAGGAGAATCGCTTGAACCCGGGAGGTGGAGGTTG

Table 1

CAGTGAGCCCGAGATCACGCCACTGCATTCCAGCCTGGGCAACAGAGCAAGACTCCATCT  
CCCCAAAAACAAAGAAATGACTTTAGACAAATGGCTTGAATGAAATTACAAAGAGGAGGT  
GCATTAATAAATCCCAGCAGTAAANCTTTGAAGAATTAATGACAGGCTAAAAATAA  
ATAATAAATGTTCTTTTT

Sequence 493

CCCGCGGTGGCGGCCCGCCGGGCAGGTACGCGGGGGTGGCGGCGTTGGGTTGAGCGGGCT  
TTTTGGAAGTTTGTGGCGGAGTTCTGTGATATGAGCAACAATGGACCAGAAGATTTTATC  
TCTAGCAGCAGAAAAACAGCAGACAAACTGCAAGAATTTCTTGGGCAGGGCCTGGGGAA  
TGCTTTTTTATCTCATATTAGTGCCTGTGATGGCATCTTTCATCTAACACGTGCTTTTG

A

AGATGATGATATCACGCACGTTGAAGGAAGTGTAGATCCTATTCGAGATATAGAAATAAT  
ACATGAAGAGCTTCAGCTTAAAGATGAGGAAATGATTGGGCCATTATAGATAANCTAGA  
AAAGGTGNCCTGTGAGAGGAGGAGATAAAAACTAA

Sequence 494

CGCGGTGGCGGCCGAGGTACTCATGGTTGCTGTAAATTAAGGCAGCCGTTCTGCAGGGTT  
TTGCTTAGCCAGGCTCCTCTGAGATCTGGCTATTCTGTCTTGTGGATTTTCAGTCCCC  
GC

GTACCTGCCCCGGGCGGTTCG

Sequence 495

AGATCTCAAGATCTGGACTTCTGTTGAAAAATTTCCCGTGAGGNTNACTTATGTCTG  
TA

AAGATGGGAAAAAATACAAGAACATTGTTCTACTAAAAGGATTAGAGGTCATCAATGAT  
TATCATTTTAGAATGGTTAAGTCCTTACTGAGCAACGATTTAAACTTAATTTAAAAATG  
AGAGAAGAGTATGACAAAATTCAGATTGCTGNCTTGATGGAAGAAAAGTCCGAGGTGAT  
NCTGNTTTGGGCCAANCTAATAAAAAATTTTGAAGAATNNCCCCCNCTNGNAANCNCC  
CNGNCTTGAANNCNTTTTAAAAAAAAGAAAAANGGTTTAAANNGTAAAGGGGNCNCCC  
CNCCCTTTTTTTAAAAAAGNNGAAAAAAGGGGNGGGGGGG

T

Sequence 496

CGCGGTGGCGGGCCGGCCGGGCAGGTACCGTGAAAAGGGCACTTCTCCTTGAGAAGGCCT  
GACAGTGTCTGTTAATGTCCTGCTGGCGCATGGTGAAAATTTAGGGCAACAGTAAAGCAC  
CCTCTTTAATTTCCCTTCTCCAAGCCCAAGCTTTTGAGGTAAGTGGAGCGCTTCCTC

AT

TTGCATAATAGGCAGTTTCAATAACTGGGGAC

Sequence 497

CCGCGGGTGGGGCCGGCCGAGGGTACNNNGGAGGCCTCATAANGGCNNGGNATCNTCGAG  
GNTGGTATNGNACTGNTNANAAAGCCNNCATGGGTANCNCACCAAAANCTACAAGAA  
CAATTGNNGCNGCGAAACAGGCAACAGANTCTGNCAATTATATAATAAGGGCGTGGTACGG  
TTGGGGAACCCCGNANGANTCNNTATGGTCTTGNTTNGCAAGCNNTGCATTTTAAATCA  
GACGACCGTNAATTTGTTANCCCCAANCCTTNTTANAATAAATCGGCAATCGCGCAATAT  
CTCATCATTNANCNACTGTGGACGACTTGACAATCTTAGTGGCTTNATGGACTTATTGCA  
AAACTCGAGAAAGAACAAACCTAGGGGTGCGCCCTGACCTTCGGAATAATTCGTAAGCTA  
TATGTGAGAACTAGCAACAGGGCGTTTCATTTATGNGNAANGGGACGCGAANTGGANGA  
TAATTATGTAANAAGNGGGCCCTACGANTTTGGCCCTAGACGCCAGGGAAACCGCGG  
GGCNCCATGCATNACNCACTTANGNAGGGGTANTTCTCCNACACNCNTCNTTTTCG  
ATTTGGANAATANGCTGGGAATNAATCCTACATGACCTGTCAATTTTCGGAGTTATCGCNG  
GCCGGTACNGNNCCCCCCCCGGGGGGGGGGGGGNNCCCCCGGNTTANCCCCCAAGCT  
TTTTTTGGTTTCCCCCTTTTNAAGTTGGAAGGGGGGGTTTNAATTTTGNCCGGCC  
GC  
CTTTTGGGGCCCGGTTAAAT

Table 1

## Sequence 498

TGAGCTCCCCGCGGTGGCGGCCCGCCCGGGCAGGTACACGGGCCTTCCACTTCAGCTGACT  
GAATTTAGGCAGTTCTGGCCACTTCAGTTTCCGCACCCAGGCCTCCTGACCCATGGTATC  
TACGATGAGATCC

## Sequence 499

GTGGCGGCCCGAGGTACCTCAATTGATGATTTCTGGTATGACCTAGCAAATACACTGCTTT  
CACTGAAATTTGAGTCTTGCAATCTGCTTTGGGTTCCCAATCTAAGACAGAAACATACT  
CATTTTCCCATCACTGGACTTCCAGGTTGTTTTCAATTTTCACTGTTACAAACAAGGT  
G  
GCAACATTTATCTACAAACCTCTTGGATATTACACCGTAGGNAAGCTTTCTGGGTTATT  
T  
CCACCTAGTGAAACCTTGCTCAAGTTTGAAGGGGGTANTGTTGGGATNCTTTCATCTT  
TT  
TAATTAATAATTTTACCAACCATGTTGAAAAAGCCCCGACCAATGGTCAAGGGACTGNG  
CAAAGGAGGTGCCACCAATGTTGAATGGGGNTGGTGGGAAATGGGCAANGCTTCACTG  
NTANACAAGGGTGGCTTGGGGGGACCTCAAGTTTGGGGGTTCTTTGGGAGNAAAGCCAC  
TTTAGNTTATTAGCCAAGGAANTGTTCTTCATAAAAATTGGGTNTTCTTGATTTAGG  
A  
AGACCAANGAAGTTAGGTTNGGGGGGAAAT

## Sequence 500

CGAGCCGGGAGCCATTNANAGTTGTTAAAAGCCTNNGGGGTGCCCTAAATGAGTGAGCCT  
AACCTCACATTTAATTTGCCGTTTGCGCCTCAACTTGCGCCCCGCTTTTCCAGNTCGGGGA  
AAAACCTTGTCCNTTGCNCAGCTTGCAATTAATGGAATCGGNCCCAACNGCCGCCGGGGG  
GAGGAGNGCTGGATTTTGCCGTTATTTGGGGCGGCTNTTTCCCGCTNTCCTTCCGCTT  
CAACTTGNACTT

## Sequence 501

ACATACTAGCNGGGTAGCATAAAAGNTGTTAAAGCCTGGGGGTGCCTAATGAGTGAGGC  
TTAAACTTCACAATTAAATTGCCGNTTGCTGCTCCACCTGCACCTGCTTTNCCAAGAT  
CT  
GGGGANAACACNTGNCGTGCCAGGCCTGNNAATTAATGCAATTCNANNNCAACCGCCGC  
NGGTGGGAGNAGGGACGGTNATTGCCGTTAATATGGGGGCCGCTACTTTTTCCGC

## Sequence 502

NACAAACATTACGAGCCGGGTAGTCATAANAGCTGTAAAGCCTGGGGGTGCCNTAATGAG

## Sequence 503

GCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTATGAATTATTTATTTCTT  
TCTCAGAAAAGGATGCGCCTCCACTTAGCAAGGCTGGGCAGGATGTGGNTTNTGNATCTG  
CCCACAGACGGGGTGTTCTAGACGGCCGCTCTNNAAC

## Sequence 504

ACATACTTANCCCGGNAGCATTAAAGTGTAAGCTCTGGGNNTGCCTAATGAGGTGAGCT  
AACTCACATTAAATTTGCGTTGCTGCTCACTGCCCCGCTTTCCAGTCGGGAAACNCTTGG  
TCNGTGCCCANGCATGCATNTAAATGNANATCGGCCAA

## Sequence 505

CACAACATACGAGCCCGGGAGCATAAAGTGATAAGCNCTGGGGTGCCTAAN

## Sequence 506

CGGTGGCGGCCCGCCCGGGCAGGTACTCGTCTTGGTGAGAGCGTGAGCTGCTGAGATTTGG  
GAGTCTGCGCTAGGCCCGCTTGAGTTCTGAGCCGATGGAAGAGTTCACTCATGTTTGCA  
CCCGCGGTTGATGCGTGCTTTTCGAAGAACAAGACTTTGCGCTATGGAAGTCCCCATGT  
TGATGGATCCTGAGGCTTGAAAAAACTGAAAGAGAATAAAATATCTTTAGAGTTCCGA  
ATTATTGAGAAAAATCAAANACTCCNAGTTTTGATGACCTGNGAAGGAATATTTGNGAG  
GGACNCCANGCCCTTTGGGGNAAGGANTCCTTGACTCTATCTTTCAAAGGGAATGNAA

Table 1

ATTCCTAGTAACAGGCCCTNTAAAGACTNAANACCAAACCTTGGACTTCTTGCTTGGATT  
TTCNTTTTTATTCCCTTTTTTTTTTATTNTTTTTTAAAAATAAANAAAAATAATTTAATT  
TTAAACTTGGNACCTTTTCTTAAATAATATTACCTTCTNATTCAAAGGTGGGAAAA

N

GGGAAAATTTCC

Sequence 507

GGCGGCGCCGGGCAGGTACGCGGAAATCCCCTAACTTCCTTGCTATCTTCCCATNCCATA  
TTTAGGTTAGATNGAGAAAGTGTGTATGTGTGTGTGTGTGTGTGCTCNGCACAGTNGA  
TGAAGTGTAAACATAAATTGAAGATATTGGAAAANTACATNAANTTATGGACCAACATGA  
CAATTTTCATTAGGACTTCCTATTCANAGAGTATCAGTTTNACANNTTGGGTATTAGNT

A

CTAGTATNAAACATTTTCAGATACTTGCACTGATTTTCTGGTGGANTAAAAGCAANGGCTT  
NTACAAGTTNTAAGCATGTCTTNTANGNCTATGCTTTGGAATACCAGCTAATAACCAAT

C

AACAAGNCCAGNAGCCTTAANGTGGTATTTTTTGGTTGACCCTAAAAACATGGAACCT  
NAANGGGTTTCTNCAAAAANTTGCCTTAACCAATGGAAANTAGGTGGGGGGAAG

Sequence 508

TATCCGCTTCACAATTCACACAACNATACGAAGCNCNGTTAGCATTAAAGTGTAANAGC  
CCTGGGGTTGCCCTAATGAGTTGAGGCTAACCTCACATTAATTTGCNTTGGCGCTTAC  
NTGGCCCCGCATTTTCCAGTTCGGGGGAAAACCNATGATCGTTGGCNCAGGCNTGCCATT  
ANATNGGAATTCGNGCCCAACNCNCCGGTTGTAGGAGGGNCGGGTTTTGCGGNAATTTG  
GGNGCGCTTCTTTCCCGCTT

Sequence 509

CCNANGTACACTCCCACCACCACCNCATGGTCTCTTTCATATNNCTCAANNNTCAACNTG  
NTCCTGNGGCTTCATAATTNTCCTNTTNCATCTTTTTCACTTCNNANGCAAACACCGC

CT

CNNCTNANGCTNTNNANTCAATNCANTTNNCCTTAATNNAATCACAAANTNTCCTCC

AT

TACNCANNAANNTNTNNNCATTCANNNCCACAATCCNGGTNNTGGTCTNNCTNNNCCACA  
TCANCAAAAATCACATCCACCATTNCNATCCCNCTACCTTCCCNNNCCNCCCCTCTAA  
ACTANTNNATCCCCNNNCTNCAANAATTCNATATCAANCTTATCNATACCCTCNACC

TC

NAANNNNNNCCNTACCCAACTTTTNTTCCCTT

Sequence 510

CGGCCGCCCGGGCAGGTACTCTCTGAGCCAAGGACATTCTCATTTAAACAGTTTAAANAG  
GCTGGGNGCNGGATCGGGAAAAAAGAAATATACCCTGGCAGCCGCTGCCCGGCCGGA  
AAGCGGANAGGGACNCTAANATCAGCAAATTCNCCAGTTTGGATCCTTGTCTTTTCCGC  
CCTTTTCCCCCATTAATCCANAACCCGTACATGATAATTAANAAAANGGTTTCAGTTC  
CTCCTCCTCAAACCACTTCCNGTAAGAGGATCCCCNCNTACCTCNGCCCCCTCTAAACT  
AGTGGATCCCCCGGCCTGCANGAATTCNATATCAACCTTATCCATACCCNTCACCCCTCA  
AGGGGGGGCCCCGGTACCCAACTTTTTTGTTT

Sequence 511

GGGGGAGGGCAGNAAANCAAACCACAGCNCACNGCANGGGCACACANCAATCCCCAGC  
AAAAAAAAAAAAATNNNTNNTNCCAAACANAAAGAGCCTGGCCAGGGGGCCCANACGGGCC  
NNAAAGCCCNNGGAACCAATTTTTNTGGGGGCGGGGGCCCCCAAAGGGCGGGAAAAACA  
GCCACGACCCACGGCNCCAAGCNCGAACAGAGAGCNGGGGGAGACGCNGCCAAAAGCAAA  
ACGGCGGCCAAANCNNAGGGAGCAANNNGGGGCGAAAAGNNNAACGGAACCANANGAA  
NAAAAANCAAAAANAAACCGGACCANA

Sequence 512

AGCANACCGCGGNGCGTTTTGCGGGAGAAACNGNGGACCCCCCGGGCTGCAGGAANNCG

Table 1

ANANNCNATTTAGGGNGACNNAACCCC

Sequence 513

NAGNCACCGACGAGACCAGATTANACNTNNGGGGCGNGNAAAACCCAGCCCCCCCCGGNC  
ACAGCCCNAAAGGCCAACCCCTTTTGGAGGNGCNGGGGANGCAAACNGAAAAAGCNG  
GAAAAAGNAGGAGNNGAAGCCAAACAGCCAAANNCNGCCANNAGGAAGNGNGNAGGGTT  
TTGCNANTTTTTTNANGGGGGGGGNANCAACACCCCCNGAANAAAGNCCGGGCGNGCNGCC  
CNGAACGAGGGGGGGGGGGGGGGGGGCGNGCAAGAANNNGGNGANCAAAGCNNNANCGANAC  
CGGNGACCNNGNAGGGGG

Sequence 514

ATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACCTCCGAAATCTTACCTTCAGT  
CTTCTCTGCCACCCAGTCATTTATATGCTTCCTGCACTCTTCAGTGTCTTCAGCAAAG  
GA  
CAACTCCTCCAGCTCTGCCTGATAGAACTTCTGACAGTATTCTTTAAAGTCTGGAAGGAA  
ATCACACGTCTTTCTCAAAGAGTCTGTTGGCAGTTCTAAGCAAGTACGCGGGGTAAAGC  
AGGAAGTGAAACCACAGAGCTTCAAAAAAGAGCGGGACAGGGACAAGCGTATCTAAGAG  
GCTGAACATGAATCCACAGATCAGAAATCCGATGGAGCGGATGTATCGAGACACATTCTA  
CGACAACTTTGAAAACGAACCCATCCTCTATGGTCGGAGCTACACTTGGCTGTGCTATGA  
AGTGAATAAAGAGGGGGCCGCTCAAATCTCCTTTGGGACACAGGGGGTCTTTTCAGGGC  
CAGGTGTATTTTCGAGCCTCAGTACCTCGGGCCGGTCTAGAACTAGGGGGATCCCCC

Sequence 515

TTCGCCACCGGAATGATCACCAAGACACACAAAGTAGACCTTGGGCTCCAGAGAAGAA  
AAAGAAGAAGAAAGTGGTCAAAGAACCAGAGACTCGATACTCAGTTTTAAACAATGATGA  
TTACTTTGCTGATGTTTCTCCTTAAGAGCTACATCCCCCTCTAAGAGTGTGGCCCAT  
GG  
GCAGGCACCTGAGATGCCTCTAGTGAAGAAAAAAAAAAAAAAAAAAGTACCTGCCCG  
GGCGGCCGCTCGACGTGGTCGCGGCCGAGGTACAACTGCAGTAAGAGGGACGGTTAATTC  
ACAGCTTCCAGCTCTTGGCGCCAGAGTCCGATGCACTCCTGCAGATAACGGTCATTTCCA  
TTTCCGGGAGAACCTCTTTCGAAAAACAACCCGGATGAGACTATCTGGCAAATTGCAGCC  
CTTGGCGGGCTTT

Sequence 516

ATTGGAGCTCCCCGCGGTGGCGTTTTGCTCTTGTAGCCCAGGCTGGAGTGCAATGGCAGG  
ATCTCAGATCACTGCAACCTCTGCCTCCTGGGTTCAAGCGATTTTCCTGCTTCATCTT  
CC  
CAGGTAGCTGGGATTACAGGCATGTGCCACAACGCCTGGCTAATTTTGTATTTTAGTAG  
AGACTGGTTTTCTCCATGTTGGTCAGGCTGGTCTCAAACCTCCCGACCTCAGGTGATCCGCC  
CGCCTCGGCCTCCTAAAGTGCTGGGATTACAGGCGTGAGCCACTGCGCCCAGCTATACTG  
TATATTTAAGGAAGTTCCAGCATGTTGCATCTTCTGCATTTATCCCTATATCATTAAAA  
GAACATAAAGTTATCATGGTGTGGGTAAATTAGCGAAATTCAACCCCTTCCTAAGGTTT  
AAGGGGAAAAGGTATTTTAAAAACAACCTTAATNAAAACCTTACCCTTCTTATACAAGA  
GTGGATTTCCCCCTTAATTAGGGATGCATGGTTGATTAAACCTCNAGATACAGCTTTT  
TT  
GCAGTAATGGGGGGGNTGGGT

Sequence 517

GCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGTGTGATCCAGTTCTTGCTT  
TTCAACGAGAAGGATTTGGACGTCAAGATATGTCAGAAAAACGCACAAAGCAATTTTCAG  
ATGCCAGTCAATTGGATTTCTGTTAAACACCGAAAAATCAAAAAGCATGGATTTAGTAGCT  
GACGAGACTAACTCAATACAGTGGATGACTAGAAAGCAGGTTCTCCAGCAGAGATGTG  
GGTCTTCCCTGGGTCTGAAGAAGTCAAGCTCATTGGAGAGTCTGCAGACCGCAGTTGCC  
GAGGTGACTTTGAATGGGGATATTCCTTTCCATCGTCCA

Sequence 518



Table 1

AAACCCACCCCCAGGGGAAGGGNNGAAGGGAGGGGCTTGGAGGGCNGAGGGGAAGC  
CCCCGAAAAANGACNNCCCCCAACCAGGGGANAANAGACCCGNAGGGACAGGCNAAGGA  
GAGGGAACAGGGGAACCACTTTTNTNTTTTTGGGGGCACNNGGGCNGGGACCCCC  
NACAAAAAANANCCCCCGCCAGGANGGGGGGGGGGNNAAAGGGNAAAAAAAAACA  
AGACCCAAAGAAAAAAC

Sequence 519

GCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTTTGTCAGCAATTTTGACAGTCAT  
TAATGTTTGTCAATAATTTAAATAAAGTGCTGGGTTTCAGAATAAAAAAAAAAAAAA  
AAAAANCAAAAAAAAAAGTACCT

Sequence 520

GGAGCTCCCCGCGGTGGCGGCCCGCCGCGGCAGGTACTATGTTGAATAAATGTTTTTTC  
CTTTAATTTTCTGCTTCCCTAGTGATAGAATTGAAGTCTTAGGGAGTTTGAGGCT  
G  
CAGTGAGCTATGGTCATGTTACTGCGCTCCAGCCTGAGTGATGGAGTGAGAACCTGCCTC  
AATTAATAAAAAAAAAAGAAAGAAAAACAGTGAGTGGGCTCATGCCTGTCATCCAN  
CAGTTTTTGAAGCCAAGGCAAGAGGATTCCAGGAGTTCAAGACCAGCCTAGGCAACCT  
TAGCAAGACCTTGGTATCTTCCCAAAACCTTTAAAAATTAGGTTGTGTGTGGTGNTGCC  
TGGCTGAGATGAGAGGATTTGCTNGAATCCAGGAANGTGGAGGCTGNAGTTGAGCTATGA  
TTNGGGCCNCAGCANTTCCAGGCCTGGGGNACNCCAGGGGATACCCTGGTCTTTAAAAA  
AAAAAAAAA

Sequence 521

CCGGGCAGGACGCGGGCGGCTCTTAGCGGTGGATCACTCGGCTCGTGCGTCGATGAAGAA  
CGCAGCTAGCTGCGAGAATTAATGTGAATTGCAGGACACATTGATCATCGACACTTCGAA  
CGCACTTGCGGGCCCCGGGTTCTCCCGGGGCTACCGCCTGTCTGAGCCGTCGCTTCCAA  
AAAAAAAAANAAAAAAAAAAGTCCCT

Sequence 522

AGGTACACCTCCCCAAGCTCTCTTCCCTCCGGCTCTAGCTATATAAGACGTGCCTGCTTCC  
CCTTCGCCTTCCACCAAGACTGTAAGTTTCTTGAGGCCTCCCCAGCTTCTGTCATGCTTC  
CTGTGCAGCCTGCAGAACTGTAAGTCAATTAACCTCTTTTCTTTATAAATTACCCAGT  
C  
TCAGGTAGTTCTTACAGCAATGTGAGAACAGACTAACAACAATCAACTCATGGCTTTAA  
CACAAAAAATAGGTAAGTTCAAAATTAACATATTACCACATCCAACCTTCTTTATTCTT  
GAGAAAACAAAAAAGTCCAAATCAAAGGAAAGCACCCGTTTTAAACCCTCATATCTTTC  
TCAGGGCTCACTGCAGTCTGGCCATATCTCAAGCAGGTC

Sequence 523

TTGGAGCTCCCCGCGGTGGCGGCCCGCCGCGGCAGGTACGCGGGGGAGTGAGAGGGAACGA  
GAGTAAGAGAAAGAAAGAAGTGAGGGGATGTAACTCGAATAAATTTCAAAGTGCCTCCG  
AGGGATGCAACGGGGCAAAACTGAACTGTTCAAGGCTTCAGATTGTAAGTACGATCTGA  
GGAAAAATGAGGTTTGTGTGATTTTGCTAAATGCATCACCACAGCGAATGGCTGCCTT  
AGGGACGGACAAAGAGCTGAGTGATTTACTGGATTTCAAGTGGATGTTTTACCTCCTGT  
GAGCAGTGGGAAAAATGGACCAACTTCTTTGGCAAGTGGACATTTTACTGGCTCAAATGT  
AGAAGACAGAAGTAGCTCAGGGTCTGGGGGAATGGAGGACATCCAAGCCCGTCCAGGA

Sequence 524

GCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGCTCTTGAGGAGTGAGACTG  
CAGGAGATGTGGGCCGTGCCAAAGAGATGGATGAGACTGTTGCTGAGTTCATCAAGAGGA  
CCATCTTGAAAATCCCATGAATGAAGTGAACAATCCTGAAGGCCTGGGATTTTTGT  
CTGAAAATCAACTGCAGACTGTAAATTTCCGACAGAGAAAGGAATCTGTAGTTCAGCACT  
TGATCCATCTGTGTGAGGAAAAGCGTGCAAGTATCAGTGATGCTGCCCTGTTAGACATCA  
TTGTAAAGTGCTGGAGTGCAAGTAAAGCCATCTCAGCTCACCGCGACCTCTGCCTCCTGGA

Table 1

TTCAAGTGATTCTCCAACCTCAGCCTCCCGAGTAGCTGGGACTATAGCAGTGCACCACCC  
ATATATGCAATTC

A

Sequence 525

AATTGGGGGNAACNACNGGCCCCACGGNCCNCNGGCCAGNGCACCCATTTTTTTNGN  
GGGNGAGAANNNGGCCACCCNGACCCGGAGAGGAAGGAGACNGTTTTTNAAGNNGCCNC  
GGGCCACACNCNAAAAANCACCCGCAANNNGCACCGACAAACANCGNGNGCNAAAAACA  
NAACNNGAACANCCCGAGGAAACCGCCCNATTTTTTTTTTGGGGGGGNCCAANGAGGGGC  
CCGNCGCCACAAAAAAAACCAAGGCCCCNGGGGGGGGGGGGGGAGCCCAANANNGGGG  
NGGGGGC

Sequence 526

AACTTAATGCTTCTCTTTTTTTTTTCACTGGCTTTTTCATANATCGAGACATGTAAGCA  
GCATCATGGAGGTAAGTTTTGACCTTGAGAAAATGTTTTGTTCACTGNCCTGAGGAC  
TATTTATAGACAGCTCTAACATGATAACCCTCACTATGTGGAGAACATTGACAGAGTAAC  
ATTTTTTNGGGGNAAGAAGAATCCTACAGGGTCATGNTCCCTTCTCCTGTGGAGTGGGGG  
GGNAGAAGGGGTATGGCCCCAGGGNNGGCCATTAATACTGACCTCTACAGAGAGGGCAAA  
GGAAGTGCAGTATGGNATTGCAGGATAAAGGCAG

Sequence 527

AGGTAATCACAGTCACGCTCCTCTGAACCATCCTTGGGCTTCATGGGGTTGGCATTGAGG  
ATCCCTACGACAGTCCCCTGCTCCGTCTTCCAGAGCGCTTTGTGAAGTTCTCCAAATAAG  
AACAAAGGACACACATTGTGTCAGGTCACGAAGATCATTGAGTTCCATATGCTGAAGGTT  
TTTCCACTATTCACACTCTGTGGCGTAACCTTCTTGAATATAACCCCAAATGTCACCCA

A

TCTATTTCTTCCAGCTTCTCTCTGGCCATCTTTTCTTGATCTGAGACAGTCTGATCAG

T

TTT

Sequence 528

AAGGANAAATTTTTTGGGGGGNCAAAAAACCCCANCCCCCACAACCANGCCNAACTNA  
ATCTTNGGNAAAAAGAGGGGAANAGGCCCAAAAAAGGACAAAAGGGNNCANNCAAAAAAC  
AAANNNCCAAAAANCCGGCCAANAANANNNNCAAAANNNNCCCCAATTTTNTTTTTTGG  
GGGGGGGAAANGGGAAGNNACCCCAANGNACGCAAAAAACNACCCAAACAGGGGGGGG

Sequence 529

CCGCGGTGGCGGCCGAGGTACATTGTATACTGCAGTGTCTGCTACATGGCATTGGACAGG  
ACATAATGTAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGAATGGCAAC  
CGTGACCAATTTTTGGCTCAAGTTAAATACCAAAAAAC

Sequence 530

CGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTGGAACCCATTTGGATTAATTAGA  
GGTCTGTCTGAAGGAGTTGAAGCTTTATTCTATGAACCTTCCAGGGTGCTGTTCAAGGC  
CCTGAAGAATTTGCAGAGGGGTTAGTGATTGGAGTGAGAAGCCTCTTTGGACACACAGTA  
GGTGGTGCAGCAGGAGTTGTATCTCGAATCACCGGTTCTGTTGGGAAAGGTTTGGCAGCA  
ATTACAATGGACAAGGAATATCAGCAAAAAAAAAAAAAAAAAAAAAAGTACCTGCCC  
GGGCGGCCCGNTCTAGAACTAGTGGATCCCCCG

Sequence 531

ACATTACNAAAAGGAGAGGNGGCCAGNNNAAACACNCNGAANCCANCCNNGCCCNGAGN  
AACAAANCACNGGAGAACAAAAACGAAAAACAGCAGGNCCNCNNNNNAAANCCAAANNCAN  
ACAAAAANGNCAAAGNAGAACCAAAAGCCANGNGNCCCGCCAANAAGCCNCCCCAAAAG  
CAACAAAGAGGNCNGCCCAAAACCNCCNAAAAAAACAAACCCCAAGANGAAAAAAAACCA  
AAACCCCNAAANGNAAANGAAACAANCAACCGGGGGCCCCCAA

Sequence 532

TTTTTTATTCAATTTGCGATNGACAGNNNTAGNTTAAATGTTNGTAACACTCTTAGAN

Table 1

N  
NNCTGGTTTGTTTCATTTGACATNGGGGCTGCACCAATTTTTATTACAAAAATCAAAAAA  
G  
TAAAAATTCTTACAATATTTGCAGAGTATAACCACTAGTTGCCTAGACAAAAGCTAATT  
T  
CTACAAAATCAAAAACTTAATGCAGTTTTATTAAGAGAGTCAAAATTCTCTCAGTTAAC  
T  
GGATATACATAGTGGTATATATCTTAAAGCAGAAAAACCCCAAAAAACAAAAACAAGGAAA  
AAAGAAAATACATGTCAACAGTCAGGTAATATTTTACCTGACAGGTTCTACAAATAGG  
GGATTTTCACTACATATAAAGGAATCTGTTACATGGGGGTAAAACTTCCAGAGACCAAGT  
AGGAAGNGGTGGAATAAAAAACCAATAAATNCAAACGCCACCCAGGCTGG  
Sequence 533  
CCAGCTGCTNGCCTGCAAAGANGAGCCTCCTNNGGGGGGGGNAACCCCNCCNANCC  
NGGANCTTGGCCTTACANTNNGCATGGGGGGCACTGGGCGCCACCTCANGGGAGAAGGG  
CTTGCCGGGAAGGGNTNNCACGAAGAACTGCATTNNGACCTGGNAGCGGAAACCAGGATC  
CTGCCAATNTNTNNACCACGGGGCACCCACAGGGACACAAACAAGCNCACCCAACAAAGC  
CAACCGCCCNCCGNGGACCNCCCCG  
Sequence 534  
CCCGCGGTGGCTCTTGGGGCTAACCTCTCTGCAGATGAAAAGCAGCTGAAAGGAGTTTT  
TGGCGNCACCAATAACCCTAAACTGAAGCCTGATTACTGGAGTGACAACTACNTGAAA  
GAAGCAGAAGCCGTTTGCTTATTATCGCCGGACACACACTGCCAATGAGCGGCGGCGCGC  
TGGTGAATGAGGGATCTCTTTGAGAAATTAAGATCACNTTTGGGATTACNTCATTC  
TT  
CCAAGTTTTCCAAAAGTCTCATTCTTACTCGAGCCTTCAGNGAAATTCAGGGACTAACAG  
ATCAGGCAGACAAATTGATAGGACAGAAAAATCTCCTGACTCGAAAACGGAATATTCTGA  
TACGGAAAGGATCGNCTCTTTCAGGTAAGACAGAAGAAGTGGGCCTGAAGAAGCTAGAGG  
ATATTTATGCAAAACAGCAAGCACTAGAGGCCCNNNNNNNNNNNNNNNNNNNNNNAAAGN  
ACCTGCCCCGGGCGGCGCTCTAAACCAGGGGGATCCCCGGGCTGNAGGAATCNAAT  
CAAGCCTAATCGAAACCGNNACCCNCGANGGGG  
Sequence 535  
NGGGCAAAGGGAAGNAACAGACACACNCTNNTGGGGGNGGATNAAACCCGGGACCAGAGG  
CTCAGNNGNGGGAGAGANCCCTGCTTACCCACCAACCAGAACGNGGCCCGCCNAGAGGCT  
GGAACNGAGAGAAAGAANCNGGGGCTGGCNNAAGAAAANANAGACANNNCACAAAAGCC  
NAGTNCATNTTTNNTTNCNGNNGGGACCGNNCACCCGCAGAAANANNNCACAAAGGCCG  
CCGNCNAAACGGGGGGGAGCACGACNGTCAGGNCNCNCGGAAGGGGGCAGCGCAACCCG  
CAGGGCNCNCNCCCCCNNGGCCNNNGGAGAACCAGGGCCNNCNAGGGGGCCNAGGGAC  
CGCCAGGCNNGNACAGCCAGGAAGGCCAAAANCAAGAGGGAGAAGGAGAAAGGNGNAAAA  
AAGAAAAAGGGGAGGNGG  
Sequence 536  
GGGGANCCCCGCGNGGCANATTGGGGGGGAACACACAGCAAAGANACGNNACAGCCTGAG  
AGCTTTCTTGGGGGGGCTTAAACCCCCGNCCGNCCATCTATCCATCCATCTGCTCAT  
CCNTNCCTCCATCTGCGCAACAAACGCNAGAGAANCAATCCTTGGGGCAGATACTGGGGC  
TGCCCTCAAGGAGCTNNNATAGAGGNCAGGGGACCTTTGNCGCTNTTTNCTAGGGGANC  
Sequence 537  
GGNCCCCCGGGCTGCAGGAANNCGANATNTNCTTTAGGGNGACCAAAACCCCC  
Sequence 538  
GGCACCCCGCGGNGGCCCTNNGGGGGGACAACNCCGCGCCCGCCAGNAACAGGCCACAGCC  
CAGAGCTCNNTCGGGGGCNAAAAACCCGGACAAGCNGCANGCGGGGGGACAGGNTGCG  
GGNCNTGGAACACTGGACNGGATGGCACANGAACCAGAACTCCGCTCCGNTTGGCTGCC  
CAAGGANCCCAACNCATNCTAANCAGCGANACNGAGGAAACGCNTTTTANNCCGAG

Table 1

GNACNANNNCANAGAACAGGCCNACCGCAAGGGCANACCAAGAAAGGGGGGCGNAAGGAN  
AGNNAGGGGGNAACAANGNACCANAGGNCNNCAAANGNCNGACANNANCNNNACCCNAC  
CNCNAAANGCCCNCCNTNNACAANANCNNNCCNGANNNGCNGNGNAANAGAAAAACAAA  
CAAAGACANGGAANNACCGGGCANANNAGCAGAACCAAACCGGAAAANGCANGGAGGGNN  
CAAAAACACCACCNACAGGAAGGAANAACCCAGAGGAAAAAGGCCGAAAGAAAGAAACCG  
AAANANAAGACCNCGGGCCGAAAAAGCNNACCCAGGAGGAACCCACNNNCACGAAANCAGA  
ANNCCCCCNCCCAACCANNAACAGGGGGGAAAAAAAAAAAAANCNG

Sequence 539

GCGATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTCTTTTTTATAGTTTT  
TTTGTTTTTGTGATTTTTTTTTTTTGGTTTTGTGTTTTGTGTTTTTCTTTTTT  
TTTGGTCTTAGAAAATCTGAGACACGTGAGGCCAGACAAAGCAAGGCCGGGGCTGATGG  
CCTGGCTGCCTGGTGGTTGATGGTTTTGCTCCCCCTACCTTTTTTTTTGAGTTTATTCT  
G

ATTGATTTTTTTCTTGGTTTCTGGATAAACACCCTCTGGGGACAGGATAATAAAACA  
T

GTAATATTTTTAAGAAGGAAAAAAAAAAAAAAAAAAAA

Sequence 540

ATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTATTTGCTAAAAAATGCT  
AATGATATCCAAACCATCAGCTACTTGTAATCTTTTTGCTGGTGGAGGGTTTTGTCTCA  
A

TTTTGGTGGCTGCTGACTGATCAGCGTGGTGGTTGCTGAAGGTTGGAGTGGTTGTGGCAA  
TTTCTTAAATAAGACAACAGGCTGGGTATATTGCCTCATACCTGTAAATCCCAGCACTT  
TGGGAGGCTGAGGTGGGAGAATCTTTGAGGCCAGGAGTTAAGACCGGCCTGGGCAACA  
TGGTGAACCGTGTGTCTGCAGAAAAATGAAAAGAAATTGGCTGAGTGTGGGGGTGCATG  
CCTATACTACCATCTACTAGGGAGGGTAGGATGGAAGGGTTGCTTGAGCCCAGGAATTCA  
AGGNTGGGCCACTGCACTCCACCCTGGATGGCAGAGTGAGATCCTGCCCTCAAATTTTAA  
ATNA

Sequence 541

TTTTTTTTTTTTTTTTTTGTTAAAAGACACAAGTAGTGATATATCAACATCTGTTTAACT  
CGTGACCGTTTCTTTTTTCAACTTCTTTTTCTTTTCAGTGCTTCTTCTTCCATTACC  
TTTTCTGATTTCCACTTTCAGTTTCCATTTCGTTTCGCTATCTTCTGGTAGCCACAGCTC  
A

GCTCCAATCTGCGAAATACGGCACTCTCTTTATTGACTACTGCTTCTCTCGGCCCCCGCG  
CGGCCCCGGGAGTACCTGCCCGGGCGGCCGCT

Sequence 542

GCCGCCCGGGCNGGNACAAAATGTTAAAGACGTTGTTTGTATNTGTAAGGCTGGTGTATT  
CAGAGAGCATNATCTCTTATTCCTCACTTCCACCCCGTATTTTGTAAATGACCATGAT  
C

AATGTTTNTACTTTTTGTNTAATGGGGTGGGGTGGAGTGGGGGCTATCTGAGAGTCANCC  
TGAGGTCTTTAGAGGACCANCTATTGTATCACCTTGGATACTTGAAGTTT

Sequence 543

CAAANACTTTGGCCANANTAAAATNGNTGGAACANAGGTTTCTTTTTAAAAAAGGAAG  
GGTTAAAGAAGCCAAACGGTNGCTTTTNGGGGAANGCCANGAAAGAAAAAAGGGGGGA  
GNAAAAAAGGCCATGNCCATTCTNTNGCCCCCTTGGAATGGAAGCCCCANGGGGGGNAC  
ACCAAGCNAAANNAAGAAAAGGCCCCACCTTNATTCTTCAATTTTTAAATTCCTTTTA  
A

CCAGAACATTCTTCTTTTGGCAACAAGNGGTCTTCCCCTTNGGGATTGGTCGGAAANAAA  
TCACCCATTGGAAGANTGAGAGAGTNCACCTGGGAAAAGCGGCCACCTTATTCAGTCCCC  
TCCCCTTCTTGGCGTNTGGCAACCAAAAGNTTNTTCTGGCGGGGCGTTGGGGACCCCG  
TNTTCAAACCAAGTAAGGAAGGGGCCCTTTTAATTTTTGGGGACCTTTATTAATGGCTT  
N

Table 1

AGAAAAANGCAATNGGTAAGNGGCCTTTCNTTGNGGGNGAATNAAGGGGCCCCACGGAAA  
AGCTTTTTCCCCTTGGAATTGTACCCCGGCCGNACCTTTTTCCNAANGCCCCCTTNNC  
CCTTTANAAGGACCCCCCAAAGGTTGGNTNGGGCCCCCCC

Sequence 544

TCCGCGGTGGCGGCCGAGGTACCAATACTTACTTACAAATTTAATACTGCTTCAAGGTAT  
TTAATCTAAAATTTTACCAACTTTGATTTGTCTGGTTAGGATATTTTGTTTTAGTGGATA  
TGCTTTAATTCGGATCAATTACTGCAGTAAATCTCATCCCTAAGCATGAAATGTTGTCA  
A  
CAAATACCCAGTTCATTAGTTATCAATTAGCCCAAATAAGAGATACAAAGTATAACAG  
TGACCAACCTTGACCTGCCCGGGCGGCCGCTCGACCACTGACATAGACTGAAAGCAAGA  
AGAGTGCTGTGTTTGTGCTATATCCCTCCACACCTAAGGCAATGCATTTACATC  
TT

GCTGAGAGCAGATAACCTCAATACCTGGGAAGTAGAAAAT

Sequence 545

AGTGAGGGGTTAATTGCCGCCGCTTGGGCGTAATTCATGGTCATAAGCNTGTTTCCTGT  
GTGAAATTTGTTATCCGCTTCACAAATTCACACAACATTACNGAAGCCCCGGGAAGCCAT  
AAAAAGTTGTNAAAAAGCCCTGGGGGGGNGCCCTAAATGGAGGTGGAGGCTTAAACCTT  
CAACCATTTT

Sequence 546

GCCGGGCAGGTACCTGATGCAGGGAATTGAAGCCAGACCCAAAACGGGCAACCCCAATAGG  
ATGGCCATCTGCCCCATTAATGCCAGCTTGTCCTAAGTGTAATTATTAACAGTGCCCCCTT  
TCACTCTCCAAAGAGTNCCTTGTNCAAAACAGNTTAATTGTGGAAGTCGCCTTCAAGATGA  
CTGGGCGGGTAAAGGAAAGTGGGAGTGAGGGAAGCAGGGTAGGTGGAGGGTGTGAAAGGG  
AGAGGGCCTCATCTCAGGGTGGCTTGGACCTGCACCAGCATCGGCCTGCATGAAATGTGC  
TCCTACTCTTGCCAGGCTGAGTATCAAAGAGAAGCAAGAAATCTAGATAAAAAATNCAAA  
TCCAGAAACA

Sequence 547

GCGGCCGAGGTACAGGTAAGCCCTGGCTGCCTCCACCCACTCCCAGGGAGACCAAAAGCC  
TTCATACATCTCAAGTTGGGGGACAAAAAGGGGGAAGGGGGGGGCACGAAGGCTCATCAT  
TCAAAATAAAACAAATNACAAAAAGTTATTTAAAGGGCGAAANGATTTTAAAAA  
ATTTTTTGCAATTTACCAATAAATTTTTTACCACCGAAAAAGCCAAANTGGCCTTANT  
A

CACCCCTTCNCCCCNTGNTGGTGGGGACCTTTTGGGGGAAGGAAGGGNACCTTGGGGGNC  
CCAATTTTCCTTCCCTTTTAAGAAAGAAGGAAAAGTTGGGGGGGGTNGGGGCCTTTTTT  
TAAGTGAATNGGGGCTAAAGGGGGAACCTTTTCCCCTTGTTAAACCAAAACCGCCAA  
TTTCNTCCAATTAATTTTTTGGGAAAATTGAACCTTAATTTAAAAA  
ACCCAAAATTGGGTGGCNAAATTCCAAAAAGGTTCCCNCTCNGGGCCCCCACCAATTT  
TGGTGGAAAAACCTTTTTTGGGGGGGGGAATNGCCTTTCCGGCCTTCCCCAAAACNCNG  
NAACTTGGCCTGGTTCCAACCTTTTCNACCCCGGTTTNNCCAAGGTTTTTTTTAAAA  
T

TCCCCCTGGGAGGTTCCAAAAGGCCCAAAAAAAAAAAAAAAAAAAAAA

Sequence 548

GGCGCCGGGCAGGTCCCTTTGTAATATCCTTTATAATAAACAGTAAATGCTGTTTCCCT  
GAGTTCTGTGACCTGCTCTGGCAAATTAATCAAACCAAGAAGGGGGTTGTGGGAACCCC  
AATTTATAGCTATTCAGTCAGAAAAAACAAGGTAAGACAATCTTGGGGCTTGCGACTGG  
CATTGGAAGTGGGGGACAGTTGTGCGGGGCTCAGCCTTCAACCTGTGGGATCTGACGCTA  
TCTCTGGGTAGATGAAGTAGAATTGAAGTGGGGGACACCCAGCTTGGTGTCCACTGCAGA  
ATGAATTGCTTGCTTGATGTCTAGGGAGGCCGAGAATTATAGCAGGGAGGTGAAAAGCA  
CTTCTTATATAGCAGTGGCAAGAGAAAAAGAGAAGGAGCAAAAGCTGAAACTCCTGATAA  
ACCAATCAAGATCTCATGAGGCTCATTAACATAACAAGAATAGCATGGGAAAGACTGG

Table 1

## Sequence 549

NACCCCTCTCAGCCNCCCTGTAATTGCGCNAACNTNTGGAAACGCTGCAACGATTGTGCGAGT  
CGTATAGCGTCTATGTACATATAGCATNTTCNATAGTCATTGGTGTAGAGATAGAAAATG  
CTTCGTACATGTCAATGGGAGAATGGGTGGTACCACTACACCGGAACATATCCCTAAGTCC  
ATCCGCCTGGGGCGAAAAGGAAGGAAAAAAGA

## Sequence 550

NTATCTTGTTGCCTCATGNGGGCTACACCNACGCTAGNNAGCCCAATGAGACGTTACGAG  
CGCGCAAGTNAGAAACNAGATTTTCATAGAGCGCTTGTTGGGAGAGGGACATTCGCAAACC  
GCGCGTTTAAAGTTACTCGTAGATATTGAGTANNTAAGGNCGTTGGGGAAACGCAACCAAA  
TACTCCTAGAGCCTTTGCCGNAACAAGNTACTACANTTGTTGNGGGGGAACGAAGGTGCC  
CCGNTCAACCCNTTGGCCCCCAANAGCCCCAAGNCTTCNTTGTTNGGGTATGGCAAA  
NNNCTTAACNGAACACATTGGGCCAANGGNNCGCNANTGGNCCCCNTGGTTTTTATCNN  
NCANTAACCCNANCNAAATGGGCGNCNTCCATAGGNAAACCTTGTTCCCNATAGCCCCTTT  
NGATATTTCTCGGCATTTTNTGGCCCCNTTTTCGCTTTNTAANCGCCANTTACCT  
NT  
AGCNCCCTTTTAGGCAACATCCTTTAAAAACGGNGCGGAGCGGTGTCCCCCAAGGGCCT  
TNCCCCCCCCAAANGCCCCCTTTTGGTGTGCAATTTGGCAAGCCCTTTTGGNAGGGAAACNA  
AAAGGGGGGGGTTGGGGANAACCTCCGGCCCCNACCGCCCCCTTGGNCCCTTGGGTAAAC  
TCCAAATNGGGGGGANGGCAACNAAAGGCCCCCTTCNTTGTTGNGNCANTNTTGGGGNA  
AAGAAGNACCCCAAGGNAAGTGNNCCCACCGGGGGGTTNANAAANAAAACCCCCAAAGC  
CACCCAAGNGGAACCTACCCCTTANAAACTTTTTGGNATTANGTTNTAACNAAANNNNACC  
CGNCCAAAATTTAAANAAANANAAGGGCGGATTTAATTTTTTAAATTCNTTGNCCCA  
TTNGGGGGTGGAAACATNTAAACAAATNTTAAAA

## Sequence 551

AGTGGACTNTGTGACCTTGAAAAAGTCATTTAACATCTCTGAACCCTACTTTCTAAGTC  
T  
CTACAAGTAATATATAGTGGGTGAGGTGTTCTTTCTTTGTTCTGNTACTNGGATGTGA  
AA  
CTCTCCNTTTGGAGATGAAACCATGGCGTAAGTAATATAAAGACTTTTCCCTGTAGTT  
AT  
CTTACAGACTGGAGAGAGTGCTAGTGAATGCTTTTGTCTTCAATGCCATCTCTTGAAAA  
TATTGAAGGTGGAGTAGCAACCGGGCATTATATTATCTCTTGAAAAGGACCTCAGCAAT  
GGAGAATATCCCCATCATCACAACGTGCATCACTCTGCCGCACGTGATTGTGGAGAATAT  
CCCTCTCCNTGTGAATGCCAGAATGAGATTCAATTACAA

## Sequence 552

GGCCGGCCGCCCGGGCAGGTACTACAATGATTCTGAAGCACAGTGATTTCAGACAGATAC  
AGTGAACCAAGTGCAATATGTAAGGATGAAAGAAGAAGAGATGACAAAGAAATCCAAGTA  
AATGCCTTGTCCTTTGCAAATGTTTTATNTTAAATCATTAAAGGAAGGGAACCTACTTT  
G  
CCTTTAAATGNTTATCAAAAGAGTTTTCTAACCAAGNGTAATACCCTTANTTCTTAAC  
A  
TTTNTTTTTCTTTATGTGNTAGTTGTTTTCATGCTACCTTGTTAGGGGAAAACCTTTAT  
TTACAAGACNCATATTTANAAAAGGGCTANATTTTTTAAATACTCAANATTAATATTTAA  
AAGGTTGGCTCCTNGAATTANNAGCCAAGNAAAATTANTTTTTACCAGTTTTTCAATT  
T  
CCCAACNANGAAAATAGGCCATTTCCCATAAACCCCAACCTCCCNANAAATGNAACCCCA  
AAGGGGCCAATTATTTATTACGTTATTTTTTGGGGAAGGGGGAANTCCAANNGGGGGGT  
T

## Sequence 553

CGGGTGGCGGCCGAGGTACCCATCTCTGCCCATCACCGCTGGAATTTTGATGACCTATTG  
GAAAAGATCTGGGACTATCTGAAACTAGTGAGAATTTACACCAAACCCAAAGGCCAGTTA

Table 1

CCAGATTACACATCCCCAGTGGTGCTTCCTTACTTCGAGCGGGCCGCCCGGGCAGGGTA  
CTTCACACCAAACACTAGCTCAAGCACTGACGTTATTCTACAGGACTATGAACCTTCATA  
TCCACATTTACAGTCCGGACAGATAAAGGAAAAACAACCCAAATCCAGGAGGCAATATAAA  
AGGAAGAGAAACAAAACACACATTCATACACTCACACTTAAAAATAGGGGAAGACCAACAG  
GGGAACCTTTTCGTTCTCTTCCTGGGATGTCTACTTAAAAATCCCATGTGGGTACCT

Sequence 554

NCGGGTGGCGGCCGAGGTACTCTTGAGATTGCTTTAAATTTTGTATTGAAACAACAATAC  
ATTTTGCAGCTGTAGTAATGGGAGCACTAATCTTACAACAGTTAGTGAATCGTTTAAAG  
G  
AATCAGTTCAGTGTAGACATTTTGAAAAGATTGTTTCCTGTGCTCTACGATAGCTTAGT  
G  
CAATGTGCACCTCTGTTTACTTGCCATTTTCCTGCTCTGTTTCTCTGTGACATGAAG  
C  
AACAGAACTGAGATCAAAGTTAAGATTATATCCTGTTTGTAGTATCAGATATTTTCT  
G  
TGTACATTTACATTCAAGTTTGATAACACTGGTGGTTTCATTTCAATACAAATTATGCTA  
GAGAACTGACATTTTCANACATGGTCATATATATGCTATTTGAATTCCTTTATCTTGATA  
CCAGATCTTGGATTGTGAATCTCTTGATGATAGATGTGCAGCTAATTTGTCCCGAAA  
CT

Sequence 555

GGGTGGCGGCCGCCCGGGCAGGTACAAGACCATGACACCGCCCAAAACACTTCCTGCAGA  
TGTTGTCGTTGGAAAACCTGTCGTCTTACAGAAGCCAGTTGCAAGGACCTTGCTGCTGTCT  
TGGTTGTCAGCAAGAAGCTGACACACCTGTGCTTGGCCAAGAACCCCATTTGGGGGATAC  
AGGGGTGAAGTTTCTGTGTGAGGGCTTGAGTTACCCTGATTGTAAACTGCAGACCTTGGT  
GTTACAGCAATGCAGCATAACCAAGCTTGGCTGTAGATATCTCTCAGAGGCGCTCCAAGA  
AGCCTGCAGCCTCACAAACCTGGACTTGAGTATCAACCAGATAGCTCGTGCGGATTGGTGG  
GATTCTCTGTGAGGGCATTAGAGAATCCAACTGTAACCTAAAACACCTACGGTTGAAGA  
CCTATGAAACTAATTTTGAAATCAAGAACTTTTGANNGNAAGTGAAAGGAAAA

Sequence 556

GAGAGCCCGGGTGGCGGCCGAGGTACGCGGGGGGGAGTGGCACTCGCAGCTGCAGCAAA  
TCTCAAAATAAAGAGGCAACGGCCTTTCTCTTCTCTCCATCTCTATAGCACACCTT  
T  
TATTTCTTTTCTTCTTTTTTTAAGCCTCACGAAAGATTTTACTTGTAGATCAACTTTCAA  
AATGTAGGAAGTCAGAATGGGTGACATCATCAGAAAAATATGTGGAGCTGATCACAAGAA  
GTGAAGAACCCAGAGCACNGAAAGCGGTTGTGACTCCTGGGCCCAGGGAGTTGACAGCGT  
CTGGGCTTCAGAGGAGCCAGCCGCCTCCGAGTTGTCTTGAAGTGAGGCTCTGCTGTAGT  
CCTGTTCTTCTGGCTCTAAGATCTGAATGTTGTGACCACTAATTTGCTNNTTCTGGA  
GG  
GTAACCCAGTTTGGTCCACAAGGGCTT  
G

Sequence 557

GAGCCCGCGGTGGCGGCCGAGGTACTGGATGTCAGGTCTGCGAACTTCTTAGATTTTGA  
CCTCAGTCCATAAACCACACTATCACCTCGGCCATCATATGTGTCTACTGTGGGACAAAC  
TGGAGTGAAAACCTTCGGTTGCTGGCAGGTCCGTGGGAAATCAGTGACCAGTTCATCAGA  
TTCATCAGAATGGTGAGACTCATCAGACTGGTGAGAATCATCAGTGTACATCTACATTGGA  
GCGGCCGCCCGGGCAGGTACCGCGGGGGAGCGGGCCCTACCGTGTGCGCAGAAAGAGGA  
GGCGCTTGCCCTCAGCTTGTGGGAAATCCCGAAGATGGCCAAAGACAACCTCAACTGGTTC  
GTTGCTTTCCAGGGCCTGCTGATTTTTTGAAATGTGATTATT

Sequence 558

CCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGTGTTTGTGAGACGGAG

Table 1

T  
CTCCCTCTGTTGCCAGTCTGGAGTGCACGTGGCATGATCTTGGCTCACTGCAACCTCCA  
TCTCCTGGGCTCAAGCGATTCTCCTGACTCAGCCTCCCAAGTAGCCTGGGATTACAGNT  
GCCTGCCACCATGTCCCGGCTAATTTTTGTATTTTAGTNAAANACGGGGTTTCACCA  
TA  
TTGGTCAGGCTGCTCTCGAAATCCTGACCTCGTAATCCGCCCGCCTCGGCCTCCCAAAGT  
GCTGGGATTACAGGCCCCGAGCCACCGNACCTGGCCTGTATTCCCGCGTACCTGCCCGGGC  
NGGCCNCTNTTAGAACTAGGNGGATCCCCCGGGCTGCAAAGAATTCGATATTAAGCTT  
AATNCNANTNCCGTCGACCTCTAGGGGGGGCCCCGG  
Sequence 559  
CGGGTGGCGGCGCCGGGCAGGTACGCGGGGGTGCCTGGCTCCGTTTCCTGCTTTTGGTT  
CTTACAGTAGTCGGCGTAGGCCTTAGGTGGGTTTCGTGCGCCTTCTACCTCGCTGTTTCGG  
TTTTCTGGCTCCTCGGCCCTTTCTCCCCTGTTGCAGCTGGGAGCGGACGAAGCCGCGA  
AGCTGGGATTTTTACTGTCTCCTGAAGAATTTAACACAAACATGGATATCAGACCAAAT  
CATACAATTTATATCAACAATATGAATGACAAAATTAAGGAAGAATTGAAGAGATCC  
CTATATGCCCTGTTTTCTCAGTTTGGTCATGTGGTGACATTGTGGCTTTA  
AA  
Sequence 560  
GCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGATCGGCA  
A  
GCGACGCTCATACANGGCNTAGCCCCGGGAGGAACCCGGGGCCGCAAGTGCGTTCGAAGT  
GTCNATGATCAATGTGTCTGCAAT  
Sequence 561  
CATGTGGGAAGCGCTGTGAAGAGTTGTTGCCTTNCAAGATATACTCCAAATTCAGTTT  
CAGCCCGTGTCAATAAACTCCGCTGGCGTGAAAGATGACATCCTTAGCCCAGCAGCTGC  
AACGACTCCGCCCTCCCTNAAAAGGGGGATNCCAGCCTTTAATNTANAGATGAANTTTG  
CCTTCCTTTGNTATTTT  
Sequence 562  
NNNAGCCGGGTATTANCCTCTACTTCAAAGGCGGGTAAATNACCGGTTTATCCACAGAAA  
TCANGGGGGAATTAACCGNCAGGAAAAAGANACCATTGTTGTATGCCAAAATAGGGCNC  
ATGCTAAAAATTGCNCATGTGGAAACCCCGTTTAAAAAAAAG  
Sequence 563  
CGATAAGCTTGATATCCGAATTCCTTGACAGCCCCGGGGGGGGATTCCCACTTAAGTTTTT  
TTAAGAAGCCGGGCCCCGCCCGGGGGGCAAGGGTTACCCCCGGGGGGGGGGCCCCGGGN  
AAAAGTTTGGGAAAAAAAAAAAAAAAAAGGGTTTTTTTTTTAAGGTNNGGGCNTTTTGNA  
AGGGGTNTTTTCCCCCCCCCAAAGGGAAANACNCGGGNNNCCCCNGNCCANAACCCG  
GGGGGGG  
Sequence 564  
AGGTACCAAGTAGGATAATTACTACTGCCAACACACACATGCACGCATGCACACACACAC  
ACAGATGTATGCACGCACACACACTCTCACTCCTAGACTGCTAAAAGCAAAAAAAAAAAAA  
AAAAAAAAAAAAAGTCCCTGCC  
Sequence 565  
NGACCTCGGCACTNAGCANCGNCACTACTTAGGGGGNGTTAAACCCCCCCCCCCCCCN  
GNAGAAACCNCNGCGCCATGAGNTNTCAAGNGGAGGAAGAAGCGACCCGCGCANGCTGAA  
GCGCAAAGAAGAAAGANGAGGCAGAGGGCCAAGNAAACCGNNAGCNGNNGCACCNGG  
AGGCNTTNTNGNNTTTGNNGGGNGGAANGCNGACGCCCNNGGAAGNANGAACNAAGAAG  
CG  
Sequence 566  
ATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGGGGGACTGGAGGACCTGTCTGG  
TTATTATACAGACGCATAACTGGAGGTGGGATCCACACAGCTCAGAACAGCTGGATCTTG



Table 1

CTCAGTCTCTGCCAGGGGAAGATTCTTGGAGGAGGCCCTGCAGCGACATGGAGGGAGCT  
GCTTTGCTGAGAGTCTCTGTCCTCTGCATCTGGATGAGTGCACTTTTCCTTTGTGTGG  
GA  
GTGAGGGCAGAGGAAGCTGGAGCGAGGGTGCAACAAAACGTTCCAAGTGGGACAGATACT  
GGAGATCCTCAAAGTAAGCCCCTCGGTGACTGGGCTGCTGGCACCATGGACCCAGAGAGC  
AGTATCTTTATTGAGGATGCCATTAAGTATTTCAAGGAAAAAGTGAGCACACAGAATCTG  
CTACTCCTGCTGAC

T

Sequence 567

GTTTTGGGGGAACACCGCGGNGGCGNTTTNGGGGTANACCGGGCCACNCAACNCNNCAA  
GGNCGAGGNNNNNTNNTTNGGGGGGTTTAAACCCCNCCCCNCGGGCNNNGNAGGCCG  
NCANNANTTTTTAGNNNGGGGGGGGGGNGCCCNCCGAAAAANCCCGACCTGNCCGGGC  
GGGCGTTNAGAACNAGNGGANNNCNNNGGGCNGGAGGAANNNGNNANNAAGTTTTTTTT  
TTTTNGGGGGGNNNGGGGGGGGGCCCCNTAAAAAAAAAAAAAGNCCCNAGNGGGG

Sequence 568

GCGGNGGCGGTTTTCGGNCGAGCCCTCTCTTGNCATCTTCTCCCGCTGCTGAAATTTCT  
NTTGCGGGCGCTGNAANCCCAGGACCCCNCCCCCGCGTACGCTGGATAGCCTCNTGGCC  
AGAAAGAGAGAGTAGCCGCCGAGCACAGCTAAGGCCACGGAGCGAGACATCTCGGCCCA  
ATGCTGGCAGCTTCAGGAATCCCCGCGNACCTGCCNNTGCGGTCTGTTTCGN

Sequence 569

ACAAAAACCCAAACCCAGACAGCAGNAATGNCAGAAGANCCANGGAGAACAGCA<sup>5</sup>GAANC  
TNACACCGCNGCNCCTCTGAAGGCTGAGAACACAAGNCAAANACATNNAACTNAAAAACAA  
CCGCTGAGAGAACACGGGGAAAAATNTNCANTTTAGAGANGNCCACAAAAAAGGACACGC  
AAAGGGGAAGGGCAAGGCGGNGAGACAACGACGNNANNCNNGGGAAGACNGGGGAGGGGG  
NGGAGAAGAGCCNNGGNGGCCAGAANNCCGGNCGGAGGNCACGAGGCGGNGACCCACAAG  
GGACCNCGCCGGGCGGNCGGNCNAGAACNAGGGGAACCC

Sequence 570

GCGGGNGGGCCGGGTTTTTTNGGGGGGGGCAACCCGCCNGGGANGGAAGGAAGGAAAAA  
ANGGGGAAGGCCAAGGGNCCGATTTTTTTNGGGGGGGGGGNNNAAAAACCCCGGGGNG  
GGGGGAAACGGGGGNNNNAAAAAANGGGGGGGGNAATTTGTTAAAGGGGCNAAAA  
AAANGGGGGNAAANCCNCAAGGGGNGGGGGGNNCINNNGGGGGGGGGGGGAAAAAAC  
NAAAAANNNNGGGGGGGGGGNNANAANNNNNNGGGNNNCCCCNNGGGGAAAAA  
CCCCCCCCCCCCNNGGGGNGGNAANTTTTTTTGGGGGGGGGGGGGNNNNAAAAA  
CCGGGGGGGGGGGGGGGGGGGAAAAANCCCCCNAAAAA  
CCCCCNNGGNGGGGGGGGGGGG

Sequence 571

CGGTGGCGTTTAGGGACCAAACGATAGCNGTTCTGTTTAAGTAGGGACCTCTCATGGTNT  
NCAGGCTNTGACAACCGAGAATCAAACCTGGAGAACATTCCGAAGCCGTTCTTATAAGNGT  
CTCCATCTCTACCTGGGCTGAAATGGAATGTGCAAATGTAGCCAGCCTGGTCCTTGGGT  
GTTGCCAGTTGATTGATGACTGGGAGCCAAAGTGGCATTNCTTNGACCTAACGGGCGA  
TGATGAAATAAATCGAGCGGCCGCCGGGCAGGNACATCTGTGAATGTGAATGCCAAAGC  
GAAGGCATCCCTGAAAGTCCCAAGTGTATGAAGGAAATGGGACATTTGAGTGTGGCGCG  
TGCAGGTGCAATGAAGGGCG

T

Sequence 572

TGNAANNCCCCGCCACGGAAAAGGNGGCCCCNGAGCCAGAGCTCCAGCAGCCCCNGGGAG  
GGCGGGGCCCCGAGGCANGGANAAGNGGGAAGGAAAACGAAGAACAGGAGCAGAA<sup>5</sup>NGAAG  
AAANACAAAGNGAAANGGGGCCAGNCAGCATGTGAGAGACNGACCACAAAGCCCCACNN  
CCACNGAAAAAAGGNGGGAACACCGGAANNAAAGGAAGACCCAAGCAACNNGGNN  
CNGGCAANGAAAGCAGCAAAANAGAAAANGAGGCCAAACCAANGGCAANAAACACCG

Table 1

## Sequence 573

GCCGGCGGCCGCCCGGGCAGGAACANAGCACTNAGGNGNGNCGGAAACNCGGCANGGGAC  
AGGACANAAAGGAAAACANAAAGANGCAAGGGGACACGACACANANGAAAGGNGAAGGG  
CAACGNCGACCAAACGGGGGNAGAAGACAAAAACCAAAA

## Sequence 574

NGGGNGGGGTTNTTTGGGGGGGGNAAACCCACAAANAATACNGGGAAGGGNGGNGGNGG  
GGNNGGAATTNTTTTNGGGGGGGNGGTAAAAANCCCAAANCCNAAAAGGGGGGGGGGG  
GNAAAGGGGNAAAAAATTTTTNGAAAGGGGGGGGGGGGGGGGAANNCCCGGGGAA  
AANNAANGGGGGNGNGGGGGGGGGGNNNNNNAANNANNNNANGGGGGGGGGGGGGGNN  
NNAAANGGGGGGGGNNNNNNNNNNNAAANTTTTTTAAANTTTTTTTTGGGGGGGGGGG  
GGGGGGAAAAANCCCCNNNGGGGGGNGGGGGGNNNNNGGGGGGNNNNCNNNNNNNNNG  
GGGGGGGGGGGG

## Sequence 575

GGAAANACACACGCCAGGAACCNNGCAGCNCNACAGNGACAGAAATTNGGGGGGNCGANAA  
ACCCACNCACCCCGANNNCNGGANCNCNAGGGAANGAGTTTACGNCACCCGGGNGGCC  
CTCCCCCAGAAACNNANGNCCACAAGNCACTGGGCACAGANAAGAGNGNCCGNCNCAA  
AACNCACAGGGCNCAGGGTTNGCGTGNTTTTGGGGGGGGGGANGGGNNACCCCCCCCCGAA  
AAGAGGGCNGGNNANCCGGGNNCNCNCGGAGAAAGANGGGGANNCACAGNCCANGACACN  
ACANGGNAACANAACNGAGNNNNCAANNNGAGCAGNAANNCCGGGGGNC

## Sequence 576

GCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGTAGGAGCCTCTCTCCCTAC  
TGCTGCTACACAAGACCTGAGACTGACCTGCAGGACGAAACCATGAAGAGCCTGATCCT  
TCTTGCCATCC

## Sequence 577

CAGGTACAGAGACCTCCTTACTTACCCCCCTTCTCCTTCGGCTGGAGCTCGGCGAGCGAG  
AGGCGGCGCTGGCGTTGGAGAGCGACGGCGGCCCGCGTAAGCAGTGGAACAACGCGAG  
AGTAACGCGGGAATGAAGAATCTTAGGCGGGTGCACCCAGTTTCCACCATGATTAAGGGT  
CTTTACGGAATAAAGGATGATGTCTTCTTAGTGTTCTTGCATTTTGGGACAGAATGGA  
ATCTCAGACCTTGTGAAGGTGACTCTGACTTCTGAGGAAGAGGCCCGTTTGAAGAAGAGT  
GCAGATACACTTTGGGGGATCCAAAAGGAGCTGCAATTTTAAAGTCTTCTGATGTCATAT  
CATTTCACTGTCTAGGCTACAAC

## Sequence 578

GCGATTGGAGCTCCCCGCGGTGGCCCCGCCCGGGCAGGTACCTCACAACGAGTTCAGTCAG  
TAGCAGAAGGATCTTCTCTCTTGTTCCTGATGATTTCAAGGTCTCACAGTCCTGATA  
AT  
CTGGTTCTTCCCGAAACTCCCAAATATCTATGGAGAGCTGTTCTAGCTTTTGCACAGGGA  
ACCACTGGACAGAGGTATCATTAAACATGTCCATGTATTGNGAAGTCTGAGGAAACTCAA  
GCTCCTCCAGTCCTTTTAAATCTTTGCAATGTAGGGATAATTTTCTGCAGAATCCTT  
G  
CCAACAACCTCTCCTCAAGTCCTTTGAACTGTTCCCAATGATGACCATCTTAGAAAGGG  
CATCTACTGACCAGTTACTCCATAAAAGATTGTTGTACCTCGGCCGCTCTAGA

## Sequence 579

ATTGGAGCTCCACCCGCGGTGGCGGCCGAGGTACTTTGGACAGTGAGGGTTGATCCCAA  
TTTTAGGGGTAGGGTTGGGGGTGGGAGTGGGAGTGTGGGTTGCCAGGAGGAAGAATGAGT  
CTACTTTNGANACAATTAAGTCATGGNCCTCTCTTTTTTTNTTTTTTTTTTTTGGCT  
ACNTAGACNTCTTTCTCATGTATTGTTACTAGAACAACCTTNTATAGGGTTTTATGGTTN  
G  
GGGAAAACATTNNNTAAAAATGGACTNATCTCTATTATACAGANNTATAATATAAAATG  
ATTTAAAGGCTATATTTTTCAGCATGTAGGTAGCTNCNCTGTCANCTGTTGAAGAAN  
CT

Table 1

TTCCTATTTAAGCTTATAGGATGAAAATATATAATTAAAG

Sequence 580

TTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCATCCAAATGCTTCCCTGGTCTTGATGAT  
CTCTTCCAGAGTCGATCTGAGTGGCCTTTTCTGCACCTCCCTTCTTTCTTTGAA  
TG  
GAATTAAACCCAATTTGAAACAACATTGACCCAGTCAAAAGCTTCTAATGGTTTCTTT  
T  
TCTTCTCCAGTTTTAGTTTGCTTTTATTAAGAAAAGAAAATAGTGCATGGCCATAGCT  
C  
CTTCAGTTCTCTTATTGCAGACTAACCATCAGGATGGTATCAAAGCACAAATACTTTGGA  
GGGGAATGCGTTGAACTGGGGCAAGTACCTGCC  
G

Sequence 581

CGTTGCGCTCACTGCCCGCCTTTCCAAGTCGNGGNAAACCTGGTCCGTGCCAGGNTGCAT  
TAAATGAAATCGGCCAACCGCCGCGGGNAGNAGGGCCGTTTGGCGTTATTGGGG  
CGCCTCTTTTCGCTTTTCTCGCTTCACTTGACTTCGCTGGCGCNTCGGGTTNCGGTTT  
CG  
GGCTTNGCNGGTGCGNAGGCCGGGTANTTCAAGTCNTNAACTTCAAAAA

Sequence 582

NTNGAGCTCCCCGCGGTGGCGGCCGAGGTACCAAATTGTTAAATACTCGNAGGCCTTTAG  
GAACCTGTGACTGANTNCATAAATANCAGANCCATATTGTGATGNTGGTNAAAGGACAN  
GTGCTCANCTTCCAATTACA

Sequence 583

ACCTCCTGGAACCGNAATAAGTTNNTGGGGGGGGTNAACCCNNGNCCACNGAATNNNC  
GGACCACANGANCNAACTNAAGGNCTAGCTCANAGAAAGCAAGNGNCAAGCNGGGCANT  
AGCTGCTGCTTCCCTGGNGGAACATNGCCTGCTNCCTCATAANCCATNNCCAGACAAGC  
AAACATTNGTTNGGCAAAGCCGACANCNACNCCAACNACAAGAGACACTAAAGNGCNGC  
NGGGGGGGCTNCCAGGGGAGANGAAANGGGAAGNCGGGCNGCAGCAACNCGGNCAAAAA  
AAACACCAANNNCNGGGGCNCAANGGCACNAANCAGAACGGCNCGCCNNNGGGANCCAC  
AGCNAAGAACC GGCC

Sequence 584

TTGGTTATACAACATTTGTTTAATAAATGCANTTTNCAAAGCTACACANGACTTAGATA  
T  
TGAAGCAGAAAAGGTGGTTTTACAGTCCCTGCATTAACCTCTAATTCTTACTACCTGGC  
CAAGAAAGCATTTCACCTCCTGCGCTTTCCTTCTGTGTGCTTGTGGTTGGTTCTTT  
CT  
TCTCAGGCTTTNNTATTCTGATGCTGAGATAGTTCTGTTCACCTAGCAACTTGGGACA  
GT  
GACACAGGGTTTGTCTGTACAAGCAGGTTATCCAAGAGGCATCCATACCTGGGTTTTTC  
CTCCAACCATAAGGAAAATTGATGCAGCTGTTTCTGACAAGGAAAAGAAGAAAACATACT  
TCTTTGCAGCGGACAAATACTGGA

Sequence 585

AGGTACCTGGGCCACCAAACACAGCTGGACTCAATATATGGGGAAGGTAAGTGTCTCAG  
TTTTTGGAGAGAGATTACCTCTTCCAAAAGAGTGCTTGATTCTGGTAGTCCAAGCTGTC  
TCCGTCTGGTGGCACCCCAATTTCCCTGCCTAGACCCACCTCTTTCTCAGCCCCCTT  
CGCCTGCCGCTGAAAAGTGAGAGCGGGCTCTTGCGTCCCCCGCGTACCTGCCCG

Sequence 586

GGGGGGNNAACCCNGAAGANGCGGNNNACGCCNNNCAGAGCCACANNATTTTGGNCGA  
AANAGGGNCCAGNNCCGAGGAAGGNGGAGGAGGNCNGNAGGNACCNNGGGCGGNNNAGA  
ACNAGGGGANCCCCCGGGCNGGAGGAATTTTNNATTTTATAGGGGGNNGGGGNNCCC  
CCGGGGGGGACCGGGACCCAGNNNCCNGNNNNGGGGGGGG

Table 1

## Sequence 587

ATTGGAGCTCCCCGCGGTGGCGGTGGGTCAGCTTTAAAGCATCATAATGACTAATTATA  
GGTGAATAATTTTACAGACAGTCTATATTCTAGGAGGCAGCTGTAGGCGTTTTAATTGGA  
AATAAGCATTCTGAGATAATGATAATAGCAGTGTAGAAAAATGAAGCTAAAAAATTCAA  
AGTGTTGAGAATCCTCCTGTCCTTCTGGGATTTTTATTTTAATCATCTCCTCCACAGAG  
A  
ACAAGCAGNACTTTTTTTTTTTTTTTTTTTTTTTGGGGGTATTTTATGCACAAAGAGCC  
ATCGTGGTTTTTTATTAGGTAGATGCCCTGGATAATCCTTTCAAGGAAGATCACTTAGT  
C  
CAACTTAATGAAACCAATATCCTTCGCATAC

## Sequence 588

GAACACCGAAGAGCCAGANTNTTTAAGGNCAGAGAAANCCCCAGANNGCCGAGGNACGGG  
ANAAGAACC GGGAAGGGAANGAAGGACAGGGAAGAGACCAANGACCGGAACCCNCCCNCA  
GACTANGAACAGCAGAGGCAGAAAGCCAGGCACCNGGNCNANGAANCAGACCAAAACAAG  
GATGNNAAAGCNGNCNAAGGAGGAGAACC GCCGACAAGNANGACANAAAAGACGGCAGCCA  
GGNNACAGAANNNGGGGAGGCCNAGNACCCCGGCCGNNCCAGAACCAGAGGAACCCCCG  
GGCNGGAGGAANNCGANANCAAGCNNAANGAAACCGGCGACCCCGAGGG

## Sequence 589

GCAGAACAGACTTGCAGCCGACCAATTTTTGGGGGATNAAAACCNAAANCCCCGGANTNC  
ACTTTTCCACTTTTTGAGGACANTGGCCAGGGGCNCTGGGCTACCCGATGACAAAGCAA  
NCAGCACAGCATCCCGAANCAGGGGAAGAGAGGGGGCGGACANTGGCANAGGAAGGAGAA  
CCCGAAGTG TNCCACAGGCNCAACNCTANNCCCNGGGGGGCGAANNCAAACCGGCCGGG  
NAANNCGNAAACACTGGAGGAACGNAAANCNCGGGGAAGCAGNCCCNGGCGAAG

## Sequence 590

GCGNGGTTTTTTGGGGGGCAACACGCGGGACNGCANGCCACNGNCNAGAGCNNGTTTTTT  
TGGGGGGAGAAAAACCCCGCCCCCGAACGCCGANCACCNCNGAGACCCACCTTGNCCTCA  
NAAACAAAAGGCCANGCCCGGACCACNGCCCCGGACCNNGGACAANCNGGACNANNNCN  
GGGNNNAANNNGGCCGAGNGGAACAACCATATAANAAATTNCCNCGGGNNGGGGGGAGC  
CGAAGAANNAACNAAAAAAAAAANCCCNANANGGGGGGGGGGGGANGNACCCNCGCCCG  
GCGGCCGNNCNAGAACNAGGGGANCCCCGGCGGCAGGAANNCGANANCAAGCCNANCG  
ANACCGNCGACCNCGAGGGGG

## Sequence 591

CGCCCGGCAGGTACTCAGGTTTTATCTCTGCACTCCAAGTAGGATGAAANGATAAGAGCA  
AAGGCTCATGTTTGCCAAGTCTGTCTTTTGTAACAAAAAACCCAGCAGCTTTATCAAGC  
AGAATTCCACCTGTATTTCTTAACCTTGCCAGAGCTGAGTCTCATGGCCACCCCTTAGCAGG  
AGTTGGGGAGGTATTTTTAACAAAGGCACATTATCATCTCCCCACCCAAAGTGGAGCTAT  
TGCTAATGAAAAAGATACAATGAGATGTTTATGAAATTATCTGTAGCTATTAATGTCAG  
G  
TTTTTGAAATTTACTGACCTGGAAGAATACTCATAATGCAATGTCAAGTGAGAAGCAGGA  
CAAAGA

A

## Sequence 592

TTGAGCTCCCGCGGTGGCGGCCGAGGACTTTTTTTTTTTTTTTTTTTTTTTGCCACG  
C  
AATTAATAAATTTTTTTTTTTGTAAAGACTGGATTTGCCATGTTGTCCAGGCTGGTCT  
G  
GGATTCTGGCCTCAAGCAATTCTTCCTCCTCGGCCTCCCTAAGTGCTGGGATTACAGGC  
ATGAGCCACCATACCTGGCCACTTCTTCATTCTTGTGGCTTTGCGTNCCCCGATTAA  
AA  
TTGGNGAGAAGTTCCTTCGGCTGGGCTGAGGACCCGNGGTCATGGGTGGATCTCATGGAG  
AGAGGGCNAGGACAG

Table 1

## Sequence 593

GTGNATTGAGCTCNCCGCGGTGGCGGCCCGCCCGGGCAGGTACATAACTCCCGCAGGATCT  
CAGGGCCTGCCGCCCCATTATGATGATGTCGAGGTTTTTCATCCTGCAGCTGGAGGGAGAG  
AAACACTGGCGCCTCTACCACCCCACTGTGCCCTGGCACGAGAGTACC  
T

## Sequence 594

CGAGGTACAGGTGCGATTCTGGATGACAAAAGAAGATGCTTACTTCACAGAAATTCGAAA  
TTTCATTGGGAACAGCAACCATGGCAGCCAATCTCCAGGAATGTGGAGGAGAGAATGAA  
TGGCAGTCATTTTAAAGATGAAAAGGCTTTGTCGAGCGGCCCGCCCGGGCAGGTACTTTNT  
TTTTTTTTTTTTTTTTTAAAGGAGCTTTTATTGTTTTAGTAATCTTAACATAACTTAA  
AATAAGAGAGGGGAAATGACATCTGGAGATCTAGGTATGTGGCCCATTGCAATTGAGCAC  
ATTTCTTGGGTCTGTTTCTCTATCTCTAAGGGCAGTCTCAAAACCCCAAGC

## Sequence 595

TCACGGGTGGCGGCCCGCCCGGGCAGGACATGGCCACCAAGTAAGAATGGTTGGTGACAAC  
GACAGAAGGCTAAACAGGAAGGTAATCTTGTGCACCTGACAAATAGAAAGAATAAAGGA  
TCAAAATTGAAGGCANGCTATAANAGTATCAAAGAAATTTCTTAAAAACCAANAGTGAT  
TTTGAAGCACAAAACTTACNGTTAACTGCTTNCCCAAATGTTCAATGATTGTGGCCCA  
AAGAACANTTTGNCGCATTNCTAAANTTTAGAAAAAATTGCNNATNTGCNAAAAAATTTT  
TANAATNGGGANACACNACCTACCATTTTTTTTTTCTAAATCCNAAATTTCTCCCCCCC  
C  
TCCTTCCCAGAAANAGAGAAATTTTGNTNAAACCTTCAATNT

## Sequence 596

TGAGCTCCCGCGGTGGCGGCCCGCCCGGGCAGGTACTATTTAAGAAAAGAACAAGGTAAAC  
TAACTAAAAGCAGGAACCTCACTTATTTTTTGCTCCCTAGCCAATTAATAAAGTTTCAT  
T  
AAAAGCACTTGAAATTATATATTTAACCTGAAAAAAAAGTTGCTAAAATTCCAATATAAA  
TGTAATATCTTTAACTTGCTTAACCCAGCTATCCCCAAACAGTGTAAGTGGGGCAAAA  
TGTTCAAAAGAAAAATCATCCAGTGCACGTAAGATGGGGCACCCAAGAAGGCTAAGCCTT  
CCTTGNCGCGCTACCCTCGGGCCGCTCTAGAACTAGTG

## Sequence 597

CCGCGGTGGCGGCCCGCCCGGGCAGGACTTTNTTTTTTTTTTTTTTTTTTTTGGAGTTAC  
TC  
TGATGTTTATTTTAAATGCATCTTAGTCCACACAGTTGGTATAAAATCAGAAAATGCAAA  
G  
CAAAAAACAAAAGGTCTGGAGTCTTAGCATCAGAAGGGCACCATATATACATCTACAGTTG  
GNGGCCAATACAAGTCATTGCCAGACAGTCCTTGAGGCACAGAACAGCCCAGACCCAGC  
CAAGCTCTAGGAACCTCACGGGTCCCAAGGGGTNTAGACCNCCTGTTCTNGATGCTCCGA  
ACCCGTAAAAAAAATGTGGGGAAGTTGATGAAGGCTTTTATGATTTACTCATTATCCCC  
GCGTACCTNTGGC

## Sequence 598

TCACGCGTCCGGGGAGGTAGTAGAAAGGCGCTGGGTGTTCTAAAATAAGGCTCTCCTGGC  
CCACGGCTGACTGTCTTCTTGTGTCTCTACAGTGACCGTGACTCTGGACCCAGACACG  
GNCTACCCAGCCTGATCCTCTCTGATAATCTGCGGCAAGTGCGGTACAGTTACCTCCA  
CAGGACCTGCCTGACAACCCCGAGAGGTTCAATCTGTTTCCCTGTGTCTTGGGCTCTCCA  
TGCTTCATCGCCGGGAGACATTATTGGGAGGTAGAGGTGGGAGATAAAGCCAAGTGGACC  
ATAGGTGTCTGTGAAGACTCAGTGTGCAGAAAAGGTGGAGTAACCTCAGCCCCCAGAAT  
GGATTCTGGGCAGTGTCTTTTGTGGTATGGGAAAGAATATTTGGGCTTTTACCTTCC  
CA

ATGACTGGCCTACCCCCCGNGNCCCCCGGTTCCACCGGGGTGGGGGGAT

## Sequence 599

Table 1

ATAGAGGTTCTGACTCCTCAGGAGCAAAAAACATAACCTGAAGAGGGAGGAAGTGGATTT  
GGGGTTCACCATTTCTTGGGGCACACTTGATTGAAAACCTGANACTTCTGAAGAGAAGGCC  
AGAAGATACAAAGACAGNCCATNCCAGTTGAATGCTGTCTTCCAAGAACAGAAGAAAATG  
ATCCAGGCCCAGGAATCCATAACACTGGAGGATGTGGCTGTGGACTTCACTTGGGAGGAG  
TGGCAACTCCTGGGCGCTGCTCAGAAGGACCTGTACCGGGACGTGATGTTGGAGAACTAC  
AGCAACCTGGTGGCAGTGGGGTATCAAGCCAGCANACCCGGATGCACTCTTTNAGTTGGA  
ACAAGGNGAA

Sequence 600

AGGTGACACAATGGCCGAAGGCTCCATGGCGGCTGGCTTCTTCCAGCCCTTCATGTCACC  
GCGCTTCCCAGGGGGCCCCCGGCCACCCCTGCGGATGCCGAGTCAGCCTCCCGCAGGCCT  
CCCTGGCTCCCAAGCCCCTCCTNCCTGGCGCCATGGAGCCCTCCCCACGAGCCCAGGGGC  
ATCCGAGCATGGGCGGNCCAATGCAGAGGGTGACGCCTCCTCGTGGCATGGCCAGCGTGG  
GGCCCCAGAGCTATGGAGGTGGCATGCGACCCCCACCCAACCTCCCTCGCCGNNCCAGGCC  
TGCTTGCCATGAACATGGGCCCAAGGAGTTCTGTGGCCCGTGGG

Sequence 601

AGCNCNTAGCTCGACGCGAAAAAAATAAATAAAAAATTAATAAAATCTGTGCAATAATTT  
TAAAATGTGCTCCCAGGAATAGACACAAATGTTTTGAGTATCTTTTAAGCTGCATTTTC  
C  
TTAGTGATGCATTTGTCAATTGCACTGAATTTAAATCTGAAAGTCAGAGGTGATTATT  
G  
ATAGTACTTTTGTATTTTGATATGGACAGTTTATTCATTTGCATACAGTTATTGACTTTT  
TCCCAGCTGATTAAGATAGTCAAGAAATTCTGCAATATAGCTGCCAAAATAGACAGCT  
ACATTTTATGATATTGTATCTTTTCTGNTTTTTTTTTCTTTTTTTCTTTAGCTATTT  
TACTTAAGCATAATAGCCACAATAGGACATATAAAGATTATAAATACAGA

Sequence 602

CAAGATCGGNGCAGCGACGCTGCGGGCTACCCCATGCCACCCATGACCTGTAGGGACCA  
CCTCTAGATGCCTACTCGATTCAAGGACACACACCATNTCTNCGCTCGANCTGGCCAAG  
CTGAACCAGGTGGCAAGACAACAGTCTCACTTTTGCCATGANTGCACGGNGGGACNCGGA  
TTCGCCGGAATNTGNACTCCAGCTCTCCAGAGGATGNAAAAGGCTANTGGGCAAAGTTTT  
TGGGATGCCATTCTANCTCATAACCCACCCANTGAACTNCAACCCNATTTNCAAANA  
NAACNTTAAAATTGGGCTTGTAATAAANTCCNNGNGCCGGCACAAAGGGCCGGCCCAA  
CCAT

Sequence 603

GTCCGGGAAAAATTACCTGTCTTGACTGCCATGTGTTTCATCATCTTAAGTATTGTAAG  
CT  
GCTATGTATGGATTTAAACCGTAATCATATCTTTTCCTATCTATCTGAGGCACTGGTG  
G  
AATAAAAAACCTGTATATTTTACTTTGTTGNAGATAGTCTTGCCGCATCTTGCAAGTT  
T  
GCAGAGATGTGTGGGAGNCTAGGAAAAAAAAAAAAAAAAAGCCCTTTTCAGTTTTGTGTC  
CACTNGTGNTATTGGGACCCGTGTTAGNATTTGTATGCCAAGAATTTTCTTGAAAAT  
GG  
AAAATGNTTTTGNNTTTAGNACCGNAGNATTCAATACNCCGGTTAAAAGGCANGGNAAT  
TNGACCAAAAAGTCTTTGGCTTTTTTTCTTGGGTAATTGNTTTCCTAAANGNTGGTTA  
T  
NTTGGTGGANCTTTTTTAACCTGGTTTAATAANTTTAAATNTGGCCCCAAATTAATT  
A  
NAGGTTTAAAAAATNATTAAGGNAATTTA  
A

Sequence 604

CCCGCGTCCGAGACAATACAAAGTTACATTTTGGACCATATTAAAACTGCAAGAAGACA

Table 1

GGGGTCTTACTGAAGATCTTTTAGAAAACCTAAATCCTGTCACAGGATATTTAGACATG  
T  
GTAGAATGTAGCTCAATTTTTTAAAAAGTAACTGACCTAGAGGGTGAAAGTTGAAACTGA  
CACATTTTCAAATTTAAGATTATGCTTATTTTGTACAGAAAACAATGTTTAAACACCANA  
GGCAGNATCTTGTTGTANTGTATATAAACGCTAACACCAGGAGTTTTTTAAAAACCANAA  
ATTTAAATTTATTTTTANGCTTTTAATTGGAAAGGNTTTGGTTTTTTNTTTTCTTTCC  
GAAACCCTGGGAGTTATTCAATTAATTTAATTAATAAACAGGGTNAGTTTTTTNAAANACC  
C  
NAAGAAANTTAAGGCCAAGTTNGCCCCCTTTTTCTTTTTTTTGNATAACCATTACCTT  
G  
GNATTTTGGGGAACC  
Sequence 605  
CTCCCCGCGGTGGCGGCCGAGGTACCCAAATACCACTTCAGGAAATCTGGCCAGATCACC  
TGAATCCAAATGTTCTATTAATTCAATACACGTTATCAAGTCAAATCCAAGCAAACGAGA  
GTCTCTCTCCACAACGGAGCCATGATACAATGTGATGGTCAAATTCAGATCCCAGGTTT  
CAGAAAATCCCCCAGGAAAGGAGCTAACGAATCCCCTCTCCATCGTAATTTATCCTCATT  
AATATCTACTCCAACAAGCAATTCAATGCATGGATTGACTTTTAGCAGCCTTAAGAGTGA  
AGTATCACCATCCCAGGTCTGCAACCTTCTTAGGCTCATGTTGATCCACTAAATTTT  
T  
AACGAACTGGTACCTGCCCCG  
Sequence 606  
CTNCCGCGGTGGCGGCCGAGGTACTTACAAATAATTACTGGCAGTAGGTTATAATTGGTG  
GTTTAAAAATAACATTGGAATACAGGACTTGTTGCCAATTGGGTAATTTTCATTAGTTG  
T  
TTTGTGTTGTTTGTATTGAAACCTGGAAATACAGTAAATTTGACTGTTTAAATGTTGG  
CCAAAAAAAAAAAAAAAAAAAAAGGTCCGCGGGGCGGAGGTCAGGGACAAGATGGTG  
CCACCGGTGCAGGTCTNTCCGNTCATCAAGCT  
Sequence 607  
CGGCCGATGAGAAGAAGAAGGGGGCCCAAAGTCACCGTCAAGGTGTATTTTGACCTACGAA  
TTGGAGATGAAGATGTAGGCCGGGTGATCTTTGGTCTCTTCGGAAAGACTGTTCCAAAAA  
CAGTGGATAATTTTGTGGCCTTAGCTACAGGAGNAGAAAGGATTTGGCTACAAAAACAGN  
AAATTNCATCGTGTAAATCAAGGACTTNATGATCCAGGGCGGAGACTTCACCAGGGGAGAT  
GGCACAGGAGGAAAAAAAAAAAAATAAAAAAAAAAACGAANGGTACCCTCNGGCNCGTT  
TTTAGNAACTAGTGGGATCCCCCGGGGCTGCAGGGAATTTCCNATATTNAAAGCTTTTAT  
TCTGGANTACNCCGTCCGACCTTCGAAGGGGGGGGGGCCCCCGGGTNACCNCAAGCC  
TTTNTTGGTNTCCNTTTTAGTNGGAGGGGGTTT  
Sequence 608  
TTGAGCTCCCCGCGGTGGCGGCCGAGGTATGCGGGAGCTGAGAGAACAGACACAGACCTG  
TCGGAAGGTCTCTGCAGGTCCCCCTTCCGCTCTGCCGATCGACTTCCGCCTCGGGCAGT  
CAACATACTGCCAAGGAAATCTGATGTGGAAGGAAATAGAAATAGTGCAGTTTGCTAG  
CCGGACACGCCAACTCTTCGTTTCGATTATTAGCTTTAGTGAAATGGGCTAATAATGCTGG  
CAAAGTGGAATAATGTGCGATGATTTCAAGCTTTTATGATCAGCAAGCCATCCTGTTTGT  
GGACACTGCTGATCGCCTGGCCTCGTTAGCTAGAGATGCTCTGGTCCATGCACGCCTGCC  
TAGTTTTGCCATCCCATATGCCATTGATGTACCTGCCCGGGCGGCCGCTCTAGAAGTAG  
Sequence 609  
CGCGGTGGCGGCCCGCCGGGCAGGTACTTCCGCCTTGCCGTTAGCTTGTGGAGAACGTGC  
TTCTTATTCTTGGCAGGCTTCAAGAACAGCTGCACATGTGCCGCTAACTGACCGCGTTGC  
CATTGGCGACCTGGACTCTGAACTCAGGTTTATTCTAAACCCAGTGAGAGGTGAGGGGGA  
GTGATGAAAGGGGATCAGCTGTATTTGTGTGTGTGTGTGTGTGAGCACCTGACAAATCTA  
TGAAACCCGAGTGAAAGGAGAAATGTTAGATTCTTATTATTTATTATATTATATGGA

Table 1

AAGCTCGACTCTCCCTTTGGTAAGTCCGAAGCA

Sequence 610

CCGCGGTGGCGGCCGAGGTAAGTCTGCTTTTTTCTATTATAAAAGTGATACTGAAATAT  
GCTAATTAATATATTAATTTTAGTTAAATGCTGCTAATATGCATACCTCTTACTTGAAGG  
TTTTAATATGTTTTGATAACTTTAATAACTTCAGGGTGATGTCTGTATAATTTTAAAG  
TGCAGCTCTCTCTAACAAATGTGCCCTACAACCTCTGATTAAACCGGCGTCTTGAAGGT  
CAAAAAAAAAAAAAAAAAAANGTACCTGCCCG

Sequence 611

GTGGCGGTGCGAGGTAAGTANGAGAAATGGCATGCTTTGCTAATNTTATGCAGAGGTAA  
CCATGTTGANNACATATGTANTGTTGAGAGGNATGTCTAATTTTATGGTCNTAGGAAAAA  
TTAAAGAAAACTGCTGCTTTCTGAAGTCTGAAATANAAATGTTTACAACCTTGACNAGG  
ATCCATTTGGTGGCTAGNCTCGCTTCCAGGGNNGNAAAGAGAATATGCCAGTTCTGTNG  
TATGGACTNTTACANAAGCTAAGGNAGGGGNAGTTCTTTCTTGGTGGNGACAAGTTCC  
TGCNCACTTAATTTTCCNTCTGNTCTCNAACCTGGGAAA

A

Sequence 612

GAGCTCCCGCGGTGGCGGCCGCCCGGGCAGGTACCAAAGAAGATGCAGTTCAAATACTG  
CCAGTTTCCAAGAAATTTGTAAAGTTGAACATGGCCATCTACTCTTGCCTTAAACT

T

TTCTCACCACACCCACCTTCCACATGCATGATATCCAAGGTCGACAGACCTGGATTAGA  
ATCCACTCTCAAGCTTCTCATGCAGTGCATTTGTATTTCTGCATAAGAAAGGGCTGCC  
TCTAGAACACAGTAAGTGATTTGCCAGTAGTGACATTGCCTACATATAGCCAAGTGT  
ATAGTATACCAACTTAGTATATTTTCAAGGAGAGCTAAACCACCTTTTGAATGNTTG

G

TTTCTCACTGTTATCTTCTTCTTCTATAATTAATTTATTTAATCTACAAATTGACATAG  
GGCTAAAAGCTTCAATATTTTACAAAATATTAATTAATGNAAATTGGTCCCAATTATTA  
GAACTTTTTTTNCATTT

Sequence 613

AGGAAGNCCACTTTTGANGAGGCCATTNAAAANCNAACGGNNATGANCCCCCACANNNC  
ACTCNGAGGGGGAGGTANGAGNANNNCACCNGGGGGCCCCGNCNGGGGAAAGGAAAGGCN  
AACNCCACGNCNGGGGCCAANGGCCNCNGCNGGGNANNNACNNNACGAGAGGCCACCNN  
AACCAGAGCGANANGCCCCGGGGGNCNCAAGAAGGGCNGCACACAGNACCTGCCCGGG  
CGGGCCGCNCAAGAACNAAGGGGGAACCCCCCGGGCCNGGCANGGGGAAANNCGAAAAAC  
AAGGCCNNAACCGAAAACCCGGGNCGGACCCCCGGAGGGGGGGGGGGCCCCGGGGGAACC  
CCCAAGCCNNNNNGGGNCCCCCNNAANGGAAGGGGGGGGAAAAAANAGGNNCCGCC  
CANGGGGCGGNNAACAAAGGGGGGNAAAAAANGGCCCGGGGANACCCCCGGGGGGGG  
GAAAAANAGGGGGNAAAAANCCCGGNNNCAANAAAAANNNCCCCACCCAAACANNAACC  
GNAGNCCCGGGNGGCAAAAAAAAAAAGGGGGAAAAAAGNCCCCGGGGGGGG

Sequence 614

CCAGAGNTAACGAAACATTCTTTATAAAGGTTTGAACCCNCNGTTTNAAGCCAANACCA  
TAATTTAATTACAAANGGATAAATATGGTAACGGGTATTTACAGAAGGAAGGGNGTTATT  
ACGGAAAAAGCTAACGGCACGACGTTTATTTTCCCCACAATCTTTCATACAGGAATA  
ACAAANTGAACTTGCAAAAGCACTAAACATCACATGTAAACCCAGCTAACAGAAAAATA  
CATTCACAAGCGTTGNTGGTGGGGGTGNGNATNGTGTGNGCTAAGGGNCAATGGGCNGAA  
GAAACAGAAGGGGAGACTNTGGCACGGCTCAATTCTTCCAGNCNANAGNTACATGGAAGG  
TTACAANCAGGGTGCCCCANAAAAAAGGNACACCACTANTCAATACCCNCCAATACAAAA  
AGAAAACCAATNTTCTCCNCCANTACCTAAAAAAGGAAACCCGGGGTAAAC

Sequence 615

CGGTGGCGGCCCGCCGGNCAGGTACTTTNTTTTTTTTTTTTTTTAATTTTCCATGTAT  
T



Table 1

NGCCTTNATCAAACATAAGCTGNGGAGTGGCCAATATACTCCATTGNGATTATACACTG  
ATTTCCATCACCTGCCTTTTACTATCAACTCTTATTAGA

## Sequence 616

CGGCCGAGGTACTGTGCCCTCTTTCTTACTAGGTGACCGAGAGTGGTTTTGACTCCTGTG  
GGTGCTTGAAGTCATTCTCAGGGGTCTCTATGACCTTTTCCCTCCTGCAGTTCACTCT  
AG  
TTTCTTCTATTTTCATCATCCCGCACTGCTCTTAGCATCGAAGTCACTGTCTGCATCTGG  
G  
TNTCTACTTTACATCAAGTTTGAAGAATGCATTTCTCTTGNGGTATTCTGTTTTTTGAA  
CTTACTTCATTGGAGAAGCCCCCTGATTTTTCTTCTTTATACCAGATCTGGCTTCACG  
A  
AAGCTGCATTTAGGTACCTGCCCGGGCCGGNCG

## Sequence 617

GTGGACGAGGGCAACCCNACTAGCCTAAAAGCCCGTGACACTTGCAGCAGGTGCTTGCCA  
CGCTTGCACCCGTCCGAAAGAAAAACGCGGGCTAAAAGCGCGAGTCTGGTGACTTTGGCA  
CCCAACCGTGCAANTTGATGGTACCCCAAGCCCAAGCGACTGGNAAGATGTCTTTGGNAA  
AAATGAACCGTGGAANCTTGGCTTGGAGCCCGANGTTCCGCGTGCCGGCCAATTCAAGCA  
AGGTGGCAACCGGGACTTGGGCCGTTCANACCCGTGGACCGTTCAANATTCCCCAACCA  
CCANTAGCACTNAGTATTTGGCCATTGGCANAAAAAGGGGAATTGGAAAAACAAAACGNT  
NCCCCGNNTTGCTTTGGNGGGNGCAAAATTCCNCGGNGCAAGGTCGGCCCTNTAACTAT  
NTTTTAAANAAAAAA

## Sequence 618

CCGCGGTGGCGGCCGAGGTACTGGGACAGTTGGGTGCGTTATGGATACATAACCTGAGGA  
GCCCCGGGGGAAGCTGGCCTTGGGTGTTTTACCTCAATCATATATCCACACAAGTGCTTCT  
CTTGACATTTCTCGAAAATGGGAGAAGAATAAAATTGTTATCCTCCACAACCTGCCT  
GGAGAACCTCNGCCAGCAGAAATCTACCACTGTCTGAAGACAAATAAAATATAGCAAAGAC  
AAGATGTGGTATTTGGCAAATTGATACGAGGAATGTCTATTGACCAGGCCTTGGCTCAG  
TTGGAATTCATGACAAAAAGGGGCCAAAATAATTAAAGAGGTTCTTTTAGAAGCACAA  
GATATGGCAGTGAGAGACCATAACGTGGAATTCAGGTCCAATTTATATATAGCTTGAGTC  
CACCTCGGGACCGAGGCCAGTGCCTGAAACGCATTCCGCTCCATGGCAGAGGTGCTTTG  
GGGATCATGGAGAAGGTTTTATTGGCATTATTTGTGAAAGTTGGTGGGAAGGGCCCCCAC  
CTTCACCTGAGCCACAAAAGACGGCAGTTTGCCCATGCCAAAGAGTATNTTCAGCAGCT  
TCGCAGCCGGACCATCGGTCACACTNTTATGATGAGGGAGAATTNAAGACCTCCACAGNG  
NATTATATTTTGGCATTATTTTCTAAAAATAAACCAAAAATTGGAAGCCAAAAA  
AAAAA

## Sequence 619

TGGCGGCCCGAGGTACCTACTATGTGTCAGCCATGGGGGGATACAAAGATCTATAAGGCA  
CAAGACCCTCAGTCTTGTAGTCGCCTGACAGCCAGCCAGCTACAACATAATGTGGAAAGG  
ACAATGGTGGGAAATGCACTCAGGTCTTCTAATGCACAGAGTATGCTCAGGCTGTGACA  
TCNGAAGAAAACAGATATTTACCTTAACACGGACTTGGAGGACCTTCAAAAAACAGTGAT  
GGGAGGAAATCCAGTTTTAAAGTCTTGATTTAAAAAAGAAAACACTTTCTGTGGATA  
AAGATAGGCTGCAGGAAATGTAACCTATGAAATTTTCTCAAATTAGCTTTCAACACACA  
CAAAAAATTGCATTTGTTTGAGGAGCAGAAATGTAACCTATATTAAGAATAAACTACTA  
T  
TTAGTATCTGAGTGGAAGTACCTGCCCGGGCGGNCGCTCTAGAAGTGTGGGATCCCC

## Sequence 620

GCCGCCGGGCAGGTACATTCTAATTTTTATGAGACATAGATATGTATTTATAAAAGATA  
GATGGAAAGAGAAGAAATTAACCTAATTTCTAAGAGCCAAATTTACTCAGAAGGTTTAGAA  
ACACCAAAATTAACAGCCAGTTTTCTTGATTTTCTTCTGAAGAAGAGATTGGTGTTGC  
T

Table 1

ATGGTGAGATATACTATGGCCTTGAGAGGCAGTTTCAACTTGAAAAGAAGATGCAGGTTG  
AGCAATCGGAGAGGACTTCAAAGAAGCTGATGAGCTCTCCCGTGGACTTACTTTGACAAT  
GTTGGAAGAATCTGGCTGGCTAGTCTGAACTGGAGTGGCTTGAGAACTCTGGGCTTCCTT  
ATTCTCAAAGTTCTTTTGGTTTGCAACCTTTTTTTAGTAACCTGCAGAGGTATAAAC

T  
GATTGTGCACACCCCCTGGTATTCCCCAGCCATGGGCATGGTCCCAGAATATAAAGTAT  
GATGGAAGGGCTTCCAGG

Sequence 621

GGTGGCGGCGGAGGTTAAGGACGCCTGCCCATGACAGAGCCTCAGGAAATCGCGATGACA  
GTTTACAGCAGGAAAATCCGTGGAGACAGCAGATCCCGAGAAGCGGCGATGTTTGCGTAG  
AACCTGTACCTGCCCCG

Sequence 622

CCCGCGGTGGCGGCCGAGGTACATTTATTTAACATAAAAGGACAATAAGTTTACTTTGTA  
TCTGAACTCAAAACAAAGTAGTTGTATATTTAACATTCAAATTTGGGATTTCCCAATG

T  
GACACATCATGAATGCAAACCCCTCCAGCCCATCAGACGCCAGGCTGCCTACTGGTAATC  
TGTGTATAGTATATAAACATGTAAAAATAGGTTGTATTTTACTCTATGTATGATGCTAAT  
CAATGAACACTTTATTTATTTTACAGAGAAAACCTATCTGTGAACCTTACTATATATCTG  
NTATTTTACCTTTATTTTTTTTTTAAATAAAAAAGGGTTT

Sequence 623

CCGCGGTGGCGGCCCGCCGGGCAGGTACAGCCATTGCTCTTTGAGTTTGGTCTGGCTAGC  
AAAAAGCTGGCTGTGTTATGTAAATAAAGCCCCCTATAGTAATTAAATTTAAAAAAGTT  
TTTTAAGCTGGCTGTTTTCTACCACTTCAGAGTCCTTGACCCCGTAATTTAGGGTCC  
CC

TTCAGATTTGCAGACAGAAACAAACAACAAACAGTTAAGCAAACTAACAATGGTCACA  
CAAATTATACAATTTCTGAGTGCTCTAAGTGCATTGGAAGAAAGCTGAACTCCATAAAA  
ACATCACCTGCCTTCCATCATCATGAAAGCAGGAAAACCTGCCTTCTGTTGGGAGCAAG  
TAAACTCCAAAAAAGAGGTGTTGTACCT

Sequence 624

CCGCGGTGGCGGCCGAGGTACGGCGGGGAGCCGCTGGATACCGCAGCTAGGAATAATNG  
GAATANGGACCGCGGTTCTATTTTGTGGTTTTTCGGAAGTGAAGCCATGATTAAGAGGGA

Sequence 625

CTCACCGCGGTGGCGGCCGCCGGGCAGGTACAAACTTTGATCTTCTTTGAAATGTGGTT  
GTCCACTNGCTTTTCTGTTTCTGTACAGTAGCTATAAACAGCTGTTTAAGGATATCCT

T  
ATCTAAATTTCTGCCAATGAGGACCAATCGATTTGTTCTCTCAGTGTATCCTTCCAGC

T  
CACTGGAGTCTCCTCNATCATAGAGCTCATCCGCGTACCTCGGC

Sequence 626

NCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACGCGGGGATGAGTCCTAGGAGGCGCTGG  
CTCTTTGGCGGCTCGGAGGAGCGGCTGCTGCTGCTGCTGCTGCTGGTGGCCCCCTTG  
CAGATGTATTGCTGTCTTGAATATTAGCCCATTTGAAAACGCCTGGGAAGTTCAGCCAT  
CAGTATGTCAGTACCTCGGC

Sequence 627

CCCGCGGTGGCGGCCGCCGGGCAGGTACTTTTTCTTCCAGAAAAATTCTCCTTGAGGAA  
AAATGTCCAAGATAAGATGAATCACTTAATACCGTATCTTCTAAATTTGAAATATAATTC  
TGTTTGTGACCTGTTTTAAATGAACCAAACCAATCATACTTTTTCTTTGAATTTAGCAA  
CCTAGAAACACACATTTCTTTGAATTTAGGTGATACCTAAATCCTTCTTATGTTTCTAAA  
TTTTGNGATTCTATAAACACATCATCAATAAAATAGNGGGCAAAAAAAAAAANNAAAAA

Table 1

NNNNGGGGTNCTCCCTGATAAAGGGGGAATTTCCNTGCCGTCCACGGGGGGTTGNCCCT  
GGAAAAANTTTGTTTANACCCCGGGNTCCCTTNTTTTTTAAAAAAGGGGGGGGCA  
ACCTTTTTTTTTAAAANGGGGGGNNTNNNCCCCCGGGGGGGGGGGANTTNCCCCGG  
GGGNTTNTTTTTTTTTTNNAAAAAAGGGGGGGGGGNCCCC

Sequence 628

GGNCGCCGCGCAGGTACGCGNGGAAGACGGAGGCGGGTTCTACAAGAGACGTAGGCTGTC  
AGGGAAGTGTTTATTCGCGTCCGCTTCTGTTCTCCGCGCCCCTGTGCTGCTCCGACTC  
ACATACTCGTCCAGAACCGGCCTCAGCCTCTCCGCGCAGAAGTGCCGGAGCCATGGCGGT  
ACCTNGGCCGNTCTAAACTAAGTGGATTCCCCCGGGCTGGAAGGAATNCGNATTAAAG  
CNTATNGATAC

Sequence 629

CCGCGGTGGCGGCCCGAGGTACAGACGACGTACCCTATATCTTCTTTTCGGCCAGTGGA  
GGATATCACCGAAGAGGACTTAGAAAATGTTGCCATACTGTTGAGATAAAATCTATGA  
TAAAGTTCTGGGTAACACGTGCCATCAGTGTGACAAAAGACCATCGACACCAAGACAGT  
GTGTGCGGAACCAGTTGCTGTGGTGTGCGAGGACAGTTCTGTGGACCATGCCTGCGGAACC  
GCTATGGGGAGGATGTCAGATCGGCATTGCTGGACCCGGATTGGGTGTGTCCCCCTGTC  
GTGGGATCTGCAATTGCAGCTACTGTGCGAAGC

Sequence 630

CGCGGTGGCGGCCCGCCCGGCGCAGGTACATAGTGTGCGAACTCAAATCGGCATTTAGAT  
AGATCCAGTGGTTTAAACGGCACGTTTTTGTCTTATAAAAAAGTGCAAAAAAGATGTGGT  
TTACAAGTTAAAGCTACAGAATCCCTTTTGTCTGTAATTGCACCAGTTTAAAGCCTCT  
G

GCAGAGCAGATTCTTTAAACTTTGTTTTCTTAAAGCTTACAGTGTGGCTAATT

C

TCCTCCCCTTTTTACAAGACGGGGGCCGGAGGGTGGACACTGGTGGCAGGTTAAGGGATA  
CTGTCACTTTAAGAAGCCTGCAGATTGAAGTGTAACATGGAGAAATTAGGGGCTGATTT  
TTAAACTGTGTGAGATATTAACCAGCCCGCCCTGTTATAAAATCAGGAAATCCAAACAG  
CGATTTACACCGATTAAACACCCCTTTATATATTTTTTACAAAAATACACTGAGAAAATA  
ATCAACGTTTTTCTCTCTTGTCTTTTTTGTTTTTTAAAGTGTCAAAAGTCTACAT  
TTAAATATAAAAAATTTAAAGTTAAACTCTAGCCCTCAGTGAAGGAGACGTAAATGG  
CGTGGGTAACAACAACACTACCAAAAAAAGAAAAAAGAAAAAAGGAAAGGAAAGG  
AATAAAGAAATAAAGGAAGTAAAAAGAAAGGAAAGAAAAAAGG

Sequence 631

ATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATCAGCTTGCCTCAAGTCTGGAAAGAA  
TTGGCTTGGGCTCATCAAGTTGAAGGGACCACCAAAAGAGCTAAGATTGCTTGAATACT  
CATGTGGCCCTAGGATGCACCGACTGGTAGTGATGAGCCAGGTTTACAAGCAGACACTG  
GCTAAGAGCTCAGACACTCTGGCGGGGGCACATGTAAAGATTTCGTTGCAACGAATCT  
TTTATATATCTGCTCTCTCCCTTACGATCTGTGACAATTGAGAAGTGCAAGGAATAGCAT

C

TTTGTCTTGGGCCCTGTAGGGACTACACTTCACCTCCACAGTTGTGACAATGTTAAAGTC  
ATTGCTGTTTGCCATCGTTTGTCCATCTCTTCTACAACAGGTTGCATCTTT

Sequence 632

AGGTACCACACTCAGGGCAGTTTCCAGCTCCTCTCACAACAGTAAATCTACACAACCTT  
CACAGAGAGTGTGTCCGCACACATTACCATCAGCTTCAAGGAGGGGTTCCGATATTTGG  
TGGTCTTACACCGAGGGCAACCTGATCGTCCATGGCGGTTTCCCTCCTACAGACTCTCG  
CAGGCGCCTGTTTCAGCCAGAGCCACCTACAAGCCCCCTCCCCGCGTACCACCACACTGT  
CCCAAATTACCTCTTCATTACCCAAATCAAAGAATCTTCTGTTTTCCCAATCCTCAA

A

GGAATGAAGAAAAACCAAGAGCAAACTCAAAGATGATTTTTACCATAAACCTCAAATG  
TGGCTTAACAAGTACCTGCCCGGGCGG

Table 1

## Sequence 633

GCCCATTTGNTGTTTGTGTTGCTTGAAGACCAAGACGGAGTTGGGCCCTTTGATTCCC  
AGTGGCTGCAAGAACTGGGATTCCCTCTCCTTCTCTCTCTTCCCCTCTCCCCCGCGTACC  
TGCCCGGGCT

## Sequence 634

GAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTAAGTACTGAAAACCACTTCCAGAGTCTAAAG  
CAGCTCAGATGTTATCTCTGGGGGAATTAGTGTCCCCTCATTTAGCAACCTCCATACCA  
CAAGGTCTCTGTCTGTAGTTACTGGGATTATCCAGATACACTATCAATGATACAAATTC  
A  
TAGGAGTATTAATGCATTTCTTTAAACACAACCTTGATTAAGAAGCAAATATGTTAAGCA  
G  
TTTTCTTTTTCTGCTGCTAAATTACAGTTAGACACTTCAGTATCTTCTTTACATGTGT  
ATATAAATTAGTAAGAACCTGCATCCAAAGCAATGTAGTGTGTGTATGTATCTATATAT  
A  
TTTATTCTAACTCAGCACTTCAGAAGCCTTTTTGAGTTACAACAATATTTTAGTTTGCCT  
CATCTGTAGAGGTAAAATTTCTATATTACCAAGCTCCAGAGGAATATGATATTTTACAGG  
CACAATTTTCTGGCTGTAGTCCCTGGGGCATTTCATTGCTGGCCTCCA

## Sequence 635

NCTCCCGCGGTGGCGGCCGAGGTACAGATGATGAAGCTTCCAGAGCTTATCTGTCTCTTA  
GACAGAACTCACATAAACACACAAATACAAGAGGTTATTTTCAAGACACACACTTGCAAG  
TAATCTTTCTATAGAAATGGCCACAGCATTATAATATTCAAAATATGGAAGATTGCAGT  
C  
TGAGGATTTTTANGAAAAAAAATCAAAGGACTTGCCAAAAGGATAACTACATAACAGAT  
ATGACAATCTACAGGACAAAAAGACAACATGTCAACCAATATTGTTTCATACAACAGCGTT  
AATGGAAAACAGTAAAACACCTTTTAGCAGTGTGCATGTTAAGTCTTTTAGTAAGATTA  
T  
CTGTAATGAGGTTTGAAAGTAAATCACTTAGTAGACAAAGTAAACCACCACAGAACCAGG  
AATAGCACCCATCACTGCTGCTTTGTCACTCCAGAAAGCTGAAAGTCAACCCGAACAATG  
AAAAAAGTCAAAGAAGCATTTCCTTTGAATTCAGTCTTAAAAATATGAATGCCTTATA  
ATTAATTTCAAATAAGTATCTTACAAGTGTTTCATGAAACATTGGTTTT

## Sequence 636

GTGGCGGNCGAGGTCTAAAGGGCAAGGTTCACTACTACAAAAAGGAAGTTGTCTAAAGC  
AAGAATTCAATTAACNGCTGGGTAAGAAAAAGTCAAAACACTAATGAGTTGTCCATGAAGC  
CAACTGCTAAGAACGCGCTCACTATACCGCCGACATTGAAGACACTACGCACGAAGCCT  
TACTTGCGGAGTCTGAATTTCTATTAATAAGGGCAGAGTGAGGGAGAACAAGAGCCTA  
CTTCCGTAACATTTTAGTATCCAGATAGTACCTGCCCGGGCCGGCCGCTCTAGAACCTAG  
TGGGATCCCCCGGGCTGCAGGGAATTTTCNTATATCAAAGCNTTATCGATACCCGTCCGAC  
CTTNGAGGGGGGGGGGCCCGGTACCCAGCTTTTTGTTTCCCTNTTAAGNGAGGGGTTAA  
ATNTGCCGCGCTTGGGCNTAATCATTGGGNCATAGGCTTGTNTTCCCTGNGGTGAAAAA  
TTGNTTAATNCCGCTTCACAANTTTCACCACCAAAACCAATACGGAAGNCCGGGGAAGCAA  
TAAAGGTNNTAAAAGGCCTTGGG

## Sequence 637

AGCTCCCCGCGGTGGCGGCCGAGGTACAGGAAAGGGAAGCACAGTTTGGAACAACAGCAG  
AGATATATGCCTATCGAGAAGAACAGGATTTTGGAATTGAGATAGTGAAAGTGAAAGCAA  
TTGGAAGACAAAGGTTCAAAGTCCTTGAGCTAAGAACACAGTCAGATGGAATCCAGCAAG  
CTAAAGTGCAAATCTTCCCGAATGTGTGTTGCCTTCAACCATGTCTGCAGTTCAATTA  
G  
AATCCCTCAATAAGTGCCAGATATTTCTTCAAAACCTGTCTCAAGAGAAGACCAATGTT  
CATATAAATGGTGGCAGAAATACCAGAAGAGAAAGTTTCATTGTGCAATCTAACTTCAT  
GGCCTCGCTGGGCTGTATTCCTTATATGATGCTGAGACCTTAATGGACAGAATCAAGAAA

Table 1

CAGCTACGTGAATGGGGATGAAAATCTAAAAGATGATTCTCTTCCTTCAAATCCAATAGA  
TTTTCTTACCAGAGTAGCTGGCTTGNCTTCTAATGATGATGNATTGAGAATTCAGCT  
T  
CTTT

## Sequence 638

CGGTGGCGGCCCGCCGGGCAGGTACGCGGGAGAAAACCTTCAATTTACTGTGAACA  
TCTTCTGACTGTGGCTTCCAGATGCTAGTTTACAGAACAACCACACAGCAAGACCAAGCT  
TATGCTGAGTTGACGGAACAATGAGTAAACATAAGGATATTACTGTGACTTTGAAATTC  
GAAATTTGTTCTTTCTTAACTTTTGCATTAATAATCACATTTATTTTATAAAATAATGAAAA  
AA

## Sequence 639

CCCCGCGGTGGCGGCCCGCCCCGCNCGGTACATGGCCCTTAATNCCATNAGATTTGTAGA  
TCTTAACCACGGCAGGTCACCGAGGCCCTCGGAANTCCCTTTNAGCTCCAGCTTACCCAC  
ATCAGCTGCTAGACGGGTACCT

## Sequence 640

AGACGATTGAGCTNCCGCGGTGGCGGCCCGCCGGGCAGGACGCGGGGGCTGTCTCACC  
TGAGACCTGGAAGCGGGCGAGTCTCGTGCTGTGTCGGACCTGCAGTCCCTGGCCTTCCGC  
CACCATGGAGTACCT

## Sequence 641

CCCCGCGGTGGCGGCCCGCCGGGCAGGACGCGGGTCTTCAGAAACCAGGCTGCTTTCAGG  
AACATTGCTGTGGATTCCAGCTTTCAGACAACACATGACTAAGACAGAATGAGACCACT  
CTAGTTGCCTCATGGGAACTCGGGAAAAGACTGCAAAAACAACATTGTTTCTCCCTTTG  
GAATTTCTGGAGTTATAAGGCAGAGGTCCCCATCTTCCCGAACTGGCCTATTCCGCTAGA  
AGCAAGATGGCTGAACTCAATACTCATGTGAATGTCAAGGAAAAGATCTATGCAGTTAGA  
TCAGTTGTTCCCAACAAAAGCAATAATGAAATAGTCCTGGTGCTCCAACAGTTTTGATT  
T  
TAATGTGGATAAAGCCGTGCAAGCCTTTGTGGATGGCAGTGCAATTCAAGTTCTAAAAGA  
A

## Sequence 642

TCCCGCGGTGGCGGCCGAGGTACTTGAGAATATTTCCACAATAGCCGATGACTTGTCT  
TGTTGACAAGAGAAAGTTCTTTGGCTGTTACCCTCAATGATAGTGAGGTCCATTGCCGTC  
TATTAAATGGAGATGATTCCATCTTGTCTACAGACACTGAAATACCTGGCTAAAAGCCGC  
CTTTCCTCTGCGCTGCTACCAGCCCTGTACAGGTCCCGGCGCTCTACCTCCCCGCGTAC  
CTGCCC  
G

## Sequence 643

CCCCGCGGTGGCGGCCGAGGNACNAGAAGCTCACTGGCTGTGCTAAACCAAATGAATGGAA  
AGCGCCAAAAGTGATTTTATACCAAGGGNCCATNCATACAAATAAACAATCCTATCCT  
CTTCTTTCTATATNNTNTTTCTTACATTTCTTATACAAATAACAGAATGCTTCATTTAT  
TCACTTCAATAGGACAAAAGTCCTTAAAGAAAGACTGAAAAGAGCTGATAATCAAAATCCC  
AAATTTTATGCTTATTTTGGGTTAGNCGCTATCAATTTTCTGACATATTAACATAGGCA  
GGAAAACATTCTCAGTAAATTGAGCATTTGAGTCTACAAATGTCTTGAAGCACTCTGGCA  
AGTTACATGTATCCCATGTTGCTTTTGGNTTCCCATCTCTTCTTTGCTTCAAACCCCCA  
T  
GCAAGNTTTTTNTTTTTTTCGGGCAGNCTGTGAATTTTCAACCTCCTTTTT

## Sequence 644

GAGCTCCCGCGGTGGCGGCCGAGGTACACCCTCTGGCCTCTCCCAAGCAAGCAGTGAGGT  
GTGCATTGTTAGAGGTGCACCGGGAAGGGAGCTTGGTTTCGGACCCCAGGACATCCTGTC  
CGCAAGCAGCTGCTACTTCTTGGGCTTCTCTAGAATATTGAGGAATTTCCCCCGTGTCT  
CTCTCTGGACTCATCCAGCCCCAGCTGATAGGCTAGGTTCTGTAGGCCTCGAACCTTCTC

Table 1

CATCAAATTAGCCGTGGTGAGACTCCCCAGTTCTTTCAACATGTCGATGTCATCACGTTT  
TATCTCAGCCATCCATTTGGGTGGAGAACTAGTAATAGGACTTTTGAAGGAAGCTGCAAA  
TTCAGCAACACCTGGTAATTGTTCTGGCCAAAGATCTGGTGAGGCACGGTCAAGTTTTTC  
AAAACCTTAGCAAAGATGCTTCCAGATCTGTCCCCGTCTGTGGGAGACGCCATCTTTCAAC  
CCATGTCACGTCCCCGCGTACCTGCCCCGGGCGGCCGCTCGAGCCAGGAACCGTAAAAAG

Sequence 645

CCGCGGTGGCCGGCCGCCGGGCAGGTACTTCAGGGAGGCCTATATATTGGCACCCAAGG  
AATGCCAGGACTGCCACCTGCTGCTCCAGCGTTAGCCTCACTCGTGTGCTTACTCACTTT  
GACTGCCCTTTTTGTCTATTTCTGGGAGGTTGGTAGAATGAAAGGGATGCTCCAAGGCAAG  
CAGATGGCCTGTCCACCTCCTATATATTGACAGTGCCAATGAGTGTAGAGTCTTGCTACA  
AGAAACAAAGTCATGAGAAATGCCAGGCTTCTGTTACACCCAAAGACTGCTGGCCCTCC  
TACTCTATCCTTTAGACCAGAACTTTTTCTTCTAAGCACTTGCCTACCGGGAAGGTT  
GA  
GGAGTCTTGTTTTACCGTACC  
T

Sequence 646

TCNCGCGGTGGCGGCCGAGGTACCGGCCAAGCCTGGTCCCCCTTCTTGTTGGGCACTGTGT  
ATGGGCGGAGAAAATCCANCTTGTCTTGCTGATGACGCAAAGGTCAATGTTGCTTCCGG  
AGCCCAGGTTCACTGAAGATTGCCANNTGCCGATGGCTTCGCTCACCANGATTCTNNGCT  
TNCTNCTCCTCCATTGTCTGGCCTAACTTTATCTTCAAATACAGACCATTGCTTGCTC  
A  
ANNGAGACCAAGAAACCCATNNGGTGACCACTAAGGGCAACTTATCAGNNTTGATTNCAT  
GAAGGGATAGGATGTCTTGATTAGGGTNGGAGAGTCCCAGGTAAATCTATGCTACTNCC  
CCCCTTAANAACCTNAGNNTCTNGCAACCCAAATTNTAAACNNTTGNATACNCTTGAAAA  
AAGGCATTCTGNCTTTTNGCNATCCGATTTGGCCTGTNCACAACTCTGGGGGAAAGAC  
TGGTCCAGTTGNNAGAAGGGGAGTTGGGAGCNTCCAGGTTTGAAAAAGNAAA

Sequence 647

CTCCCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTGGAGACACGCC  
TGGGTGACAGAGCGAGAGAGACTCTAAAAAAAAAAAAAAAAANGAAAAAGAACTGTTGAGGGA  
TACACAATATGTCAAATATTAAAGCTTTTTTTTAAATTGGGAACNCTCAGGATAATTGG  
G  
ATAATTAATTAGGCAATGATNCAAAGATGTTTTGTTTTAAATTCANAACCCNCCAAAG  
G  
TNNAACCNNTNGNAANAATTTTTTGGGTTTTCCCCCCCCCNNTTTTTTTTTNTNNNCC  
C  
CNTNAAAAAAAAAGGGGGCCNNCCCCCNNTGGGAAAANNNTTTTTTTTTTTTTNNNGGCC  
CCCCCNNTNTTTTTTNCNGGGGGGTTTTTAAANAANGGGGGNAAAAAAAAANNNGN  
GTCCCCCCCCCTCNNNAAAAAAAAAAAAAAAAANGGGGGGGGGGG

Sequence 648

TGGCGGCCGCGCCGGGCAGGACTTTNTTTNTTTTTTTTTTTTTTTTTTTTATTTTTTTT  
NATT  
TTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCCCNCGGGAANNCCCCNTTNTNNGGNNTT  
CCCCCNNGGCNCCNANANGTNAANCCNCCNANCCNNGGGNNGGGNCCNCCNCCNCCNCC  
NNNNGNNGNNNAANNNGGNTNNGNNGGGNNGGGNAAAAAGGGGGGGCCNANGGGGNCCCC  
NCCCCNTTNTNCTGGGGGGNAAAAAANGGGNCCCCCCCCCCCCGNNAAATTNNGGGNNNT  
NAAAAAANANGGGGNCCCCCNNGGGGGGGGGGNNAAATNTAANANAAAAANTTTNTNCC  
CCCCCCCCCCCCNNGGGGGG

Sequence 649

TTGACTCCCGCGGTGGCGGCCGAGGTACACGATAGGAAGAATGTATATTCTGTGGTTGTT  
GGGTGGAGTGAATGTCTATGAGGCCCTGACTTCTTTCATTTCAGGAACACAGATTCAGAG

Table 1

CTTCTGCTGTGCAGTAGGGGGCATCAATAGTTCATTTCTTTTATTGTCTGCTACCAT  
T  
CCATTGTATGGATTCAACCTAGTCTGTTTATTTCATTCTCCCAGGCTTTCCACCAGGCC  
AT  
CTCTTTCACTTCGGGGGCACCTTTCCCAGGGAGATGAAGAGACACAGGTTGGCCTCTGCT  
GGGACTCCACATGTCTCCCCGCGTACCTGCCCG  
Sequence 650  
TTGACTCCCGCGGTGGCGGCCGAGGTACTGAGTGGGGAAGAAGGTAAGAAACACGTTGAT  
TAACACCCTGTGTTCTGGCAGGTGGGATCAGCAATATGTAATCCAACCTCACCTCCATGTT  
CAAGGATGTCCCTCTGACTGCAGAAGAGGTGGAATTTGTGGTGGAAAAAGCATTGAGCAT  
GTTCTCCAAGATGAATCTTCAAGAAATACCACCTTTGGTCTATCAGCTTCTGGTTCTCT  
C  
CTCCAAGGGAAGCAGAAAGAGTGTTTTGGAAGGAATCATAGCCTTCTTCAGTGCCTAGA  
TAAGCAGCACAATGAGGAACAGAGTGGTGACGAGCTATTGGATGTTGTCACTGTGCCATC  
AGGTGAACCTTCGTATGTGGAAGGCACCATTATTCTACACATTGTGTTTGCCATCAAA  
TT  
GGACTATGAACTAGGCAGAGAAGTCTGTGAAACACTTAAAGGTAGGACAGCAAGGAGATT  
CAATAATAACTTAAGTCCCTT  
Sequence 651  
GACTCCCGCGGTGGCGGCCGAGGTACTGCGTTATGCAGAGGTGTCCAGCCCCCTTCTCT  
TCCTGGAAATTAACATTGGCTCCACCTTCCAGCAATTGCTGGACCAGGTCAACATCTTCG  
TTTTGAACAGCTTTAATCAGCAAGTGATTGTCTTCCACTGCAGCCCCCTTCTACCGCTGGAG  
GACGTGGGTCCCTCCTGGGGGTTGTTATGATCCCTGCTCTCCATGACGGTAAATGCCACC  
TGCTACCACCTTTAGCCTTTTCCCTTGAGAAAATGCAAATTTATCTCCTAGCACTTAATC  
A  
AAGAAGCTTTGAGTGTAAATTGGGATTCTCTGGCAACAGAGCAGCAGTATGAAGAAGGAA  
CAATGTTCTCAGTCTTCTGACATTCCACCTGCTCAACTCAAGACGTCTCAATTATTCCT  
T  
TGGCAGCCGCAAAGCCTGGAAGACTGCTTGCAGCCCAGCAGTTTCCTCCTGCTGCCCCC  
GCGTACCAGTGAGGAAGGA  
Sequence 652  
TTGAGCTCCCCGCGGTGGCGGCCGCCCCGGGCAGGTACGCGGGGAGGGCCAGGTCTCAGGG  
CTCCTGGAGCTGCAGGCGGCGGGAGGGGGCTACAAATGCTTGACTCAGTGATGCAGAACCT  
TTCAGAGTTAGCTGGAAGCCACAGCCCTGCCTCTTGATGCAGCCTGGATCCAGCCGGTGT  
GAAGAGGAGACCCCTTCCCTCTTGTTGGGGTTGGATCCTGTGTTTCTAGCCTTTGCAAAA  
CTCTACATCAGGGATATCCTGGACATGAAGGAGTCCCAGGTGCCAGGTGTATTTTG  
TACCT  
Sequence 653  
TCCCGCGGTGGCGGCCGCCCCGGGCAGGTACCTGTGAACTGAGGAATTATAGATAAACCTT  
AGGTCAAATCATTTGCAATTGCATTGGTGGTATTGAAAAATGATGAGATTTCTCTGACA  
GAGAGCTTTGTCTAGTTTTTGTCTTCATAGGTCAAACTGGCAATATTCTCTTGCT  
G  
CAAGATAAAGTGTTTGTGCTTCTATCACCATATGCATGAACATGTAAGAATCAGATACAA  
TTTCTGCTTCATCAGTTTCACATGTTTGTGTTGTTGCACTGAAAAATGCATCTACTGTTT  
A  
TAGCTCCCAAGGAGACCCCAAATCCTTTTTTTCTTTTGTGATGGAGTCTTGCTCTTGTT  
G  
CCCAGGCTGGAGAGCAGTAGCGCATCTCAGCTCACTGCAACCCCCACCTCCTGGGTTCA  
AGGTGATTCTCCTGCCTCAGCCTCCCCAGTAGCTG  
Sequence 654  
GACTCCCCGCGGTGGCGGCCGAGGTACCTGTTACCCTTTCAAAAGTAAGTTCTCCATCCC

Table 1

ATAAAGCCATTTAAATTCATTAGAAAAATGTCCTTACCTCTTAAAAATGTGAATTCATCTG  
TTAAGCTAGGGGTGACACACGTCATTGTGCTATATGTATGTGACTTCCCTCCCCCTGCCA  
GAATACTCCTTGGTCAATTGTAGGTATTCTTTTGGTTTAATTTTGGCAATGTAATTAA  
AAAATGGTATGTCATTTTAAAATTTGTATTCTTTTATTACAAATAAGATTGTTATGTC  
AGTATTGTTATTGGCTTTTCGTATTCTCTTAACGTGAACCGTCTGTTCAATTGTTTTAC  
CTGTTTTCTGTTTTAGCAAGTAAGTACCTGCCCCGGCCGGCCGCTCTAGAAGTAGTGGGAT  
CCCCCGGGCTGCAGGAAATTTGATATCAAAGCTTAATCGATACCCGTCGACCTCGAGGG  
GGGGGCCCGTA

Sequence 655

TNCCGCGGTGGCGGCCGAGGTACGCGGGGGAAGTCGGCCATGGACTGGAAAGAAGTTCTT  
CGTCGGCGCCTAGCGACGCCCAACACCTGTCCAAACAAAAAAGTGAACAAGAATTA  
AAAGATGAAGAAATGGATTATTTACAAATATTACTCCGAATGGAAAGGAGGTAGAAAA  
AACACAAATGAATTCTATAAGACCATTCCCCGGTTTTATTATAGGCTGCCTGCTGAAGAT  
GAAGTCTTACTACAGAAATTAAGAGAGGAATCAAGAGCTGTCTTTTACAAAGAAAAAGC  
AGAGAACTGTTAGATAATGAAGAATTACAGAACTTATGGTTTTGCTGGACAAACACCAG  
ACACCACCTATGATTGGAGANGGAAGCCGATGATCAATTACCAAAA

Sequence 656

CGGTGGCGGCCCGCCCGCTGGTACGCCCAAGGCATTTAATGCCACAGTAACAGGGCTGT  
TTGACAGTGGCAGAAGAGGACGGGACTAAAGTTACTTTGTGCTGAGAGGGGGAAAGAAGC  
ACAAAGTTTGGTCTGTTGCATAATTGAATTTTAACTCTTATCCACAACAAACACTTT  
TTCGTGTCCTGCTGTGTAAAAGACATCAGATATATTACAGATTTTCAAACAGGTGAGCAT  
NCTTTTACGAGCTGGGCAGGTGGGGAGTGGCGTGGTTTTG

Sequence 657

ATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACATTCCAATGAAGAATTTCTTCATTCTGA  
TCTCCTAGAAGACAGCAAATACCGAAAAATCTACTCCTTTACTCTTAAGCCTCGAA

Sequence 658

CACGGGTGGCGGCCGAGTACCTTGTGGGCATTAGGTCANTNTTGTATACACTTTACAA  
AAGATTTTATCTTTGATCTCTTGGCGATCTTCTTCTTGGCCATGGCAGCTGTCACTTTG  
C  
GGGGGTAGCGGTCAATTCCAGCCACCANAGCATGGCTTGTAGGGGCNATCTGAGGTGCCA  
TCATCAATGTTCTTAACGATNACAGCTTTGCGTCCGGAGTAGCGTCCAGCCAGGACAAGC  
ACCACNCTCCCAGGTTTCATGAAGTGGCCATTTCCGGCAGCAACCACCCCGGGGCNCTA  
CAGCAAAAAAGGCCCCCGCTGTACTCTGCCCCGGGGCGGGNCCGCTTCTAAGAACTAG  
GTGGGANTCCCCCGGGGCTGGCAAGGNAATTTCCGAATATTCAAAGCTTTATTNCGATA  
ACCCGTCGGACCTCGAAGGGGGGGGGCCCCGGGTACCCCAAGCTTTTTT

Sequence 659

CTCCCGCGGTGGCGGCCCGCCGGGCTGGTACGCCCAAGGCATTTAATGCCACAGTAACA  
GGGCTGTTTGACAGTGGCAGAAGAGGACGGGACTAAAGTTACTTTGTGCTGAGAGGGGGA  
AAGAAGCACAAAGTTTGGTCTGTTGCGTAATTGAATTTTAACTCTTATCCACAACA  
A  
ACACTTTTTCTGTGCTCTGCTGTGTCAAAGACATCAGATATATTACAGATTTTCAAACAG  
G  
TGAGCATCCTTTTACGAGCTGGGCAGGTGGGGAGTGGCGTGGTTTTGATGGAGTGAGGAG  
ATTTGGTTGAATGAACGCTAAGATGGCCAGACNCACCTCTTNGATCTCAACTCTGCAGCC  
TGGG

Sequence 660

CCGCGGTGGCGGCCCGGGCAGGTACTATGACCTGAAGAGGGCAGAGGCCATCACTGTT  
GGTCCGGTCTCCACCTGGGGAACTGAGGTTGCACAGTGTCTCTGTGGTGACGAGCAGGG  
CTTCATCCAGTGCCCTGTGTCACCGAGGGACTATGGGAGACATGGAGGGTGTGTGAG  
CAACAGGTGAGACTGGAGCCAGCTGAAAAGTGGGAGACCGACCCAGCCAACAACAATGT



Table 1

CGGTCTCTGTCTTGGCACCTGCAGGAAACAAGCTCCTACTTCCAGAAAAAGTGCTCCTGG  
GACTCCAGGATACCAGGCATCTGGGTAAGCTACAATGCTTAACCACTTAACACAATCAGG  
AAGCAACAGCCATGCATTGCGGGAAAGGAACCTCAGTGTTGTGTGGCTTAGTCTCCAGAC  
CTAACTTTTCTTTGGTACCTCGGGCCGNTCTA

Sequence 661

TTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGAGACGACTTTTTTCTCACCATGAA  
TGTCACCCCAGAGGTCAAGAGTCGTGGGATGAAGTTTGCTGAGGAGCAGCTGCTAAAGCA  
TGGATGGAAGTCAAGGCAAAGGCCT

Sequence 662

GAGCTCCCCGCGGTGGCGGCCGCCCCGGGCNNGGTACTTTTTTTTTTTTTTTTTTTTTT  
TT  
TTTTATTTTTTATT  
TTT

TTTTTGGNCNANANAAACNAGTTTTTTTNAATTNATTNAGGGGGAANGNGGGGNGNCTTTG  
GANAANCCNCCNNNGAGGGCTNTNGGGNGTNTCCNNGGCGNNGGGGNNAGGGGTNGGGG  
NCTNNGGGGNGGGTTTNAAGGGGCCNNGNCCCNNGGCCNCTNTAAACNAGGGGANCCCCC  
GGGCNNGGNGGAATTCGATNTCAAGCTTNTNGANCCCNCCCCCCCCCGGGG

Sequence 663

TCCCCGCGGTGGCGGCCGAGGTACTTGTGGAAGGTAGTGACCAGCACAGCCNCGCCTGC  
TCCAGAGAACTGCACATCATGGATCTGTGGCAGACCAGGTGGCAGAGACAGACCCAGGAA  
GGAGAGCAAGGCCCCCGCGTACCTGCCCG

Sequence 664

TNCGGGTGGCGGCCGCCCGGGCAGGTACGCGGGGGCGGTATCTGTATCGGGCCNTACTGG  
CTTNANGNGCNNAATTCCTTCCNNGNCCCCCCCCNGGGGNCNCAANTAAGGGTTTNGG  
ANCCNCTNTTTTTNATCNCNCAGCANCTTAAATGCCTGGGAAGATGGTCGTGATCCT  
TGGAGCCTCAAATNTACTTTGGATAATGTTGCACTTCTCAAGCTTTTAAATCGAGA  
C  
CACCCCAGAATCTAGATATCTTGCTCAGATTGGTGACTCCGTCTCATTGACTTGCAGCAC  
CACAGGCTGGGGAGTCCCCATTTTTCTCTTTGGAGAACCAGATAGGATAGTCCACTTGN  
ATGGGGAAAGGTGACCNAATGGAGGGGGACCACATNTTACGCTTGACAATGNATCCTTGG  
TTAGGTTTTTGGGGACCGAACCCTCTAACCTGGTGCCCAAGCAACCTTGGNGGAATCT  
ANGGNAAATTG

Sequence 665

TCCCCGCGGTGGCGGCCGAGGCTAACAAGGAAAGCCCCCTGGAGCTCCTGTAATAAGAATG  
TGGTTGGAAGATGCAAACTGTGGATGATCATCACCTCCATTTTCTAGGTGTCAATACAG  
TGATCATCATAGGCTTATGTCTTGCTGCAGTAACTTATGTTGATGAAGATGAAAATGAAA  
TACTTGAATTATCATCAACAAAACATTCTTCATCATGCTGAAGATTCCAGAGGAGTGTG  
TTGCTGAAGAGGAATTGCCTCACCTGCTCACCGAAAGGCTCACAGATGTGTACCT

Sequence 666

GGGTGGCGGCCGCCCGGGCAGGTTTAACTCTCAGGTCTCCCTCATACACTTCTCAGCCTCA  
GCACCTAACCTCACACAACACTCCAGTATTGATGCAGTCAATCTTGATAACATTTTT  
T  
GAATGTCCAATGTGCAAAGCACGATGTTGGAAATTATACAGAGGTGAATAAGACAAAAAC  
TCTTGCTCTCAAAGATGTCAGTCTTTTTCTTTGCAAGGATAACACATGTAGAGTAAAT  
G

CATAAAGGGGACTAATTTTAAATGTACCT

Sequence 667

GGCCGAGGTACTGGAGAGTCGGCTTTGACCATGGCCTCAGCTCAGCTCCAGGTTTGGAGC  
GGAATAAACAGGAGCTAGCAAGATGTCTCATCTGAGCTTCCCAGTGCCCAACTTATCTG  
AGGCCTGGGGCTGAAGCCAGCGCTGACGGAT

Table 1

## Sequence 668

GGGTGGCGCGCCGCGCCGCGGCAGGTACTTTTTTTTTTTTTTTTTCTGGTCGAAAATTT.  
 TT  
 GTTGGAATTTTAAAGAAAAGAAAGGCAAAGTAGCACTCAGATGGCCTTTTTTTGTAAAGT  
 GAAGTCAACCTAATACTCTGGTGCTTACTTTGCAAATCTTTCCATAAGTCAAGTATTA  
 G  
 TGTTAACAATACAQTTAAGAAGTAAGGATAAACCCATCAAGGTCCACAGCTAAATAACCA  
 GCAGATTCCCAGAACTTTATGTATTTGGGAAAAGTAAATATACAACAGACATATCCCT  
 GCCCTGATTAAGAGGGTAGATAAAAAACAAACATAAAACAATTTTACTTGAGATAGTAAT  
 AAGTTATTTGAAA

## Sequence 669

GGATCAATAAAATCTGTGTGTTACAGCGGCAGACTGAAGGACGGGTGCCTGTTTTAGCC  
 ATGAGGTAGTCCCTGACCATCTGAGAACCAAGCCTGACCCTGAAGTGGAAGAACAGGAGA  
 AGCAACTGACGACAGATGCTGCCCGCATTGGTGAGATGCAGCCAGGTTGGACTGAGTC  
 ACTGCCCTTGCTGCCCATCCCCATCCCATCATGAGAAGCTAGGCATTACCATTCCTGTCT  
 AGTAGGGATACATAGTTGGTTGCGCCTAAGTTGCTTCTGGCAGAACCCAAGGAATAAATT  
 TCTCCATATCGTTTNTAGTTACCCTAATCTCTGCACAAATTTTGTGTGTTACAGAAGC  
 A  
 GATCCAGAGCTTGAATA

## Sequence 670

TNCGGGTGGCGCGCGCCGCGGCAGGTACATCTTTTTTTTTTTTTTAACTTTTAGGGT  
 CT  
 TGCCTATTTGCATCCTAAGGGCAAAGGCTTAGAGATATCAANGGGGCTAATNTTTATN  
 GNCAGACCATGGCGGATGTAAATTAAGCTGCTTTGGTGTGGGCTGCAAAAATAACASCTA  
 CCATTGCAAAACGAAAATCTTTCATTGGCACCCCTTACTGGATGGCCCCAGAAAGTTGCAA  
 GCAGTAGAGAAAGAAATGGTGGCTACAACCAACTCTGTGATATCTGGGCAGTAGGAATAACA  
 GCAATTGAACCTGGAGAAGTTAGCCACCTATGTTTTGATCTCCACCCAATGAGGGCTCT  
 CTTCTTAATGGCAAAAAGTAATTTTCAGCCTCAAACTAAAGGGCAAAACAAAATGGGC  
 ATCAACATTCATAATTTTTGTCAAAATAGCACTTATCNAAAAAAAAAAAAAAAAAA

## Sequence 671

GCTCCCGCGGTGGCGGCCGAGGTACGCGGGGTCTTCTCATGCTCCGTGATGCATGAGGCT  
 CTGCACAACCACTACACGCAGAAGAGCCTCTCCCTGTCTCCGGGTAAATGAGTGCGA

## Sequence 672

AGCTCCCGCGGTGGCGGCCGAGGTACTCTTCTGCACTGTTCTTTCTTTCTAATAAACTT  
 TCTTTTTCGAACCTATACTGTCTTCTGTAAATTCCTTACTACCCTATGACCCGTGAG  
 C  
 CAACCACTTTCCGATGCCAGGGTTCTGACACCTCACCTGGCATAATATAAAGTGTTTT  
 TT  
 TTTTATACCCTTCCAATTGGAAAGACTACAGAGGAATCTTGCACTGCATAGTTCAAACCTA  
 AAAAGAGAAGAGTTATTACCTGAAAAGCAAGAGAAAACAAGAGGGTAAATTTGAAC  
 CAAGGGAATCATTAAAGAAGTGCTGGTATTTTTCAAATTCTGTGAGTTGTACATT  
 T  
 GTGATAAGTAAATGTTTAGGAATAAAGGATGGAACATGCTTATTTTAACTCCCC  
 C  
 CNAAAAAA

## Sequence 673

GGATTGAGGTCCCGCGGTGGCGGCCGCTGCTTAAATCATGGCCTCAGTTCCGAAAACC  
 AACAAAATACGAACCGCGGTCTTAATTCATTTCTAGCTGCGGTATCCAGGCGGCTCG  
 GGCTGCTTTGAACACTCTAATTTTCAAAGTAAACGCTTCGGGCGCEGCGGGACACTC  
 AGCTCCGCGTACC  
 T

Table 1

## Sequence 674

AGCTCCCGCGGTGGCGGCCGAGGTAAGCTGAAGCCACCAGTGTCGGATGGAAGTCTGCAT  
CTGAGGTTGCTCAGTGTCCCGGTCAATTCATTTACACATTTTAACTTGCAATTAAGAGCT  
G  
TTCTTTTCTGTGGCCTAGACTCTTTTCACTGATCTCAAAATAAACTGGTTTTTTTCAAAA  
AAAAAAAAACAAAAACAAAAAACAACAAAGCTGCATGTCTAAATTACATGGAGTTAG  
TGCTATTCTTTTTCCCTTTTGCAGCACTTACACAGCATTTTAAACACCTTTTTTTTC  
TAGTTTTTTTGTTCGGTTTTGTTTTCCATCAGGAATTTGAGTTCTCTCTAACCCAGCTTA  
CTGTGGGACATAGGAAACTCAGTAGAAATACCTTTGGTGATCTTGTTGAGTTAAGTCT  
GATCTTGGATCTTAACTCA

## Sequence 675

NATTGAGCTCCCGCGGTGGCGGCCGAGGTACGCGGGGCTGTAGTGGCTTCGTCTTCGGT  
TTTTCTCTTCCTTCGCTAACGCCTCCCGGCTCTCGTCAGCCTCCCGC

## Sequence 676

NCCGCGGTGGCGGCCGCGAGAGCACATGATGACCACGCCATCGTCCAGTATGAGTGGGCA  
CTGCTGCAGGGGACCCGTCAGTGGACATGAAGGTAACGCATGTTGTCACTGCTGGCAGC  
TAGGTCTGCTGGGGCACACCGAGCTGTGAGGGAGGGAGGCCAGCATGCGGTGCTCCTGCC  
CG

## Sequence 677

TCCGCGGTGGCGGCCGCCCGGGCAGGACGCGGGAAGGATTCTGTAAGTATGTAGCAGTG  
TTTCTTAGGTAAGTCTCTTTTTGCTACTGAAAGGGAAATGGTCTCTAAACTGGTC  
A  
CTGTAGCAGGTAAACTACTCTAACGTGGAGAAATGAGCTTCATGCTGAGGTAGTGGTT  
GCCTTANAGCTGTTNTNNTNCTGNANAAANCNAAANGGGTTGNNTCCNGNTANNNTN  
NAATTTNNTNTTTGNCCTAAAGTTTTCTNTTCCNCNNGCCCNANNTTCCCGGGGNAGN  
TTTCCCTTTTCCCGGTTTTNAAAAANNGGNGGGNGGNTTTAACCNGGNCCCCCGGGN  
CCCCCCCANNTTTTTGNAATTTCCCGGNGCGGCCGTTTTTNAANNAANANGGGGTCC  
CCCCCCCCNCNCGGNNNAATNTNTNAAANACATTTTTTCCCCCCCCCNCCCCC  
TCCNGGGGGGGGGGNNNGCCCCCCCCCCTN

## Sequence 678

GCTCCCGCGGTGGCGGCCGAGGTAAGTGTGGCATGACGTGATGATCGAGTTCANGGCT  
NTCTCCANCTNGGNCNACATGATGCCACGGNCTNGCCCCACCAGGTCTTNTGAAAGACA  
GNTGACANGAGACATCCNCGGTACCTGNCCG

## Sequence 679

NCCGCGGTGGCGGCCGCCCGGGCAGGTAAGTGTGTTGTGATCGGAACGTGTGATCCCCT  
CTTCTCATCACTGCTGCTCCAAGTATTTACTCCGGAATGGTCTGAGGGGAAAA  
CCAATGTGTTTAGCGTGCCTGCCACCTGCGCCTGAGCACAACTATCCTGCAATCTGACC  
TGCCCCCTCCTGCACAGGAAACCACTTCCCTCCCAATTGATGGTTCAAACACTGCCACC  
GCTGACTGCCCTGCATCTGTGGGTCTGTAGAACAGAAAGGCAGAACTTATTTTTAG  
GATTTAACGACAACCGGTTGAAAAAACCGGTAGGGGTGTCNTGCTCACAGAGAATAAAG  
ATTTGTAGAAAAGNGCTGAAGTCCAAGGAAGGCATTTCTTGCGCGTGTCTGGAACCG  
TGATCCTTACTACATCACTGAACGACACCAAAGCACCCCATGCACTTTTGGGTCCAAC  
CT

## Sequence 680

NATTGAGCTCCCGCGGTGGCGGCCGAGGTACAAGGGGAGGTAATGATGGGAGCTCCACT  
CCTTGACCACAGCTGGTTCTGGACCGTATCCCATGAATCTGTTTGAACGTAAGGAGG  
AAGTCAAAAAAGTTCTTATTTAGGGTTTCTTTGAGATGTGGGGCCACTTCCATTCCCA  
CC  
CGGCACAGGTAGGCACGGGCATACACCGACACTAGTGGGTCTCCGATCCCTCTGATCATG  
CATGTCAACCGGGCAGGCACTCTGAAATTCCTGTTTGGAGAGGAATTTGTTACATTT

Table 1

AGGATGGATGCCTCCACGTAAATCTTGAATGAGTTCCTGATGGAGGCAATCTTGAAA  
AACCAATTTAGGCATGTTTCCTTGGCCGTGTCATTTGCATTCTCTGGAGAAAAGTGAT  
CT  
GGTAAGACGCTGCGGCTATCCACACACATGGAAAAGATGC

Sequence 681

GCGGCCGAGGTACCCTAATGTAGTAGTAAATTTAAGGCCGTGTCGAGGAAATTTTAACT  
TCCAACAGGTGACTATATCAGGAAGGAGAAAACCAAGTGCTTCCTGCTTCACCTTCTGCT  
GCTTTTGGGACTTTTTATGAAGCCTAGGTAGNCTNAGGACANGACCCTGAACCCATTTTT  
TCACTGGGAGAGGAAAACCACCAGGCTTCTCAGCTATTGGCTTGGCAACTCTTGGAGTTC  
CTATGGCTTCCATCAGGGGCTCCAGGCCCTGATAAGTGGCCTCAGGCCAGGNAGGGAGGA  
TTCGNGTAGCCGGGATTGGGGAGCAGCTAGGTNCAGGGAAGGNTGGGAAAATAGGGGAC  
CCANTCCCCAAAACCACCGTTTGGCCGCNATGGATGGAATTTGGAGGGAACTGGGACC  
GNTAAGTTTTCTGGCATTGCCCTGGCCGGNTTGGGATGCCCTTCTTCGGGACTGGCTCCCAGG  
GCCGAATNTTTTTAGGGTCTTGCAAGCCCGGCT

Sequence 682

TTGACTCNCCGCGGTGGCGGCCGAGGTACTCTCGTTTCAGCTGGGCTCTTATGGCCAACC  
GCTCGGCTTGCGCCCGCCGGGTTTCCGGAGATATGTTGTATTTCGGCTGGGTGAGGGTCT  
CAGGCAGAGTGCGCAGGCTCGACGGCTTATACTTTGGGAACGACATCTTGGCGAACCAGG  
GCACAATTGCGCCTGCGCGATTCTGAGGCCCTTGTCTCCCCGCGTACCTGCCCG

Sequence 683

GCGGTGGCGGCCGCCCGGGCCGGTACGCGGGATGGCACATGCAGCGCAAGTAGGGTCTAC  
AAGGACGCTACTTCCCCTATCATAGAAGAGCTTATCACCTTTCATGATCACNGCCCTCAT  
AATCATTTTCCTTATCTGCTTCCTAGTCCTGTATGCCCTTTTCCTAACACTCACAACAA  
A  
ACTAACTAATACTAACATCTCAGACGCTCAGGAAATAGAAACCCGTNTGGACTATCCTGG  
CCGGCCTTATCCTAGGCCCTAATGGGCCTCCATCCTTACNNATTTTTTAAANAANANAAA  
NGGGGGAANGGACCCNTCNTTTANAAAAAATNGGGCCCNANGGTTTTNGCCCCC  
NGNGGGCCCTNGGGCNTTTTTAAAAANNGGGGGANCCCCCGGGNGGGGGGGANTNTT  
TTAAAGNTTTTTTCCCCCCCCCCCCCGGGGGGGGGGGGNCCCCCCCCNTTTTTT

Sequence 684

CCGCGGTGGCGGCCGAGGTACCCCATGCAATATANTGGCTCTACAATCCTCAGCATGTTA  
ATCGAAGCCTTGTGAGCTTCACAAAGGTTCCATTGAAGATTTGACNGAAGGCGAAGAAG  
CTGCAACACCTTTGAACTTTGGGCTCACTCCATTGATACCTCTGATTCTGATGACAAA  
CGCCAATTTGGGTTCTGCAGGTACGAGGACATTTTGGCCCGCGGCTTGTGGGGTCTCCT  
TTACCCATGTTGACAGATCCGCGTCCACCCGAGGGTATTGGAGGGTATTCTTGCCTGGTG  
CGAGCTTTTCTCAGAGTCCCGCAGAGCGGCCGCTCTAGAAGTAG

Sequence 685

CGGTGGCGGCGAGGACTTTTTTTTTTTTTTTTTTTTTTTTGGAGATGGAGGTTTCC  
G  
NTCTTGTGCCCAGGCTGGAGTGCAATAGAGCGATCCCAGNTCACTACAACCTNCGCCTN  
CCAGGTTCAAGCAATTNTNCTGCCTCAGCTTCCTGAGTAGCTGGGATTACAGGCATAAGC  
AACCATGCCCAGCTAATTTTGTATTTTAGNANGAGATGGGGGTTTTTCNATTNTNGGNAA  
GGNGGGTTTTGAACNCCCCCNNGGGGGNCNCCCCCCTGGGCTCAAAAAAANGGGN  
GGTTAANTANGNGGGGGGGNGGNCNNATATTCCNCCCCCTGTATAAAAAAANANCNC  
CCCCNCCCGGNGGTGTGGATATANATTTNTACATTNTATNTTTTNTCCNCCCCC  
NC  
GGG

Sequence 686

CCGCGGTGGCGGCCGCCCGGGCAGGACTTTTTTTTTTTTTTTTTTTTTTTGGTTTTT  
T

Table 1

TTAAAAACNGAAAT  
TCTT  
CANNCTTTATNAAAAAAGGNCNTAANGGGCCTNTTATTAATAAAAAANGNNTAAAAANCCCCAN  
AAATTCNGGGCCCCNGGGCNGGGCAGGGNTGANANCCCTTAAAGGG  
Sequence 687  
GCCGAGGTGCGGGGGGCTTACGATGGCNACAAGTATGGCGGCTGCTAGTGGTACGATTTG  
AAACGTGCTGAAGAGTATCGAAGAGCGGAAAGAACAGACCCGGAATGCCAGGGCCGAGGT  
GTTGCGCCAGGCTAAAGCCAATTTTGAAAAAGAAGAAAGGCGTAAAGAACTTAAGCGACT  
TCGGGGTGAGGATACATGGATGCTACCTGATGTGAAT  
Sequence 688  
CTCCCCGCGGTGGCGGCCGAGGTACACTCGCCAGCGGTTTTGCCACAAGAGTATACCGGA  
ACAAAGGAGACANGGCTCATTTATAATCTGACGCGGCCACCCTCCTGCTGCGTTGCGTTT  
CCATTGGCTGGGACGGGACCTCACCTTCTGTATTTGTCCGACTGGCTAGCACTTAGAAC  
TTTTTAAAAAGAGGCAAA  
Sequence 689  
CTCCCCGCGGTGGCGGCCGCCCCGGGCAGGTACAAACTGGGCACTGGATAGGTAGTTCCTTT  
GGTGGTCAAGGTGGCTCTACCTGTCTTGAGCTCTCGTGTCACTCGCTTGGTGATCCGTC  
CACACATCAGGCCAATCAGGAACAATATACAGATGCTCCCACTGATCACAGAGAGAATGT  
AGTTCCTTAGATGGAGACGTCACTTACTTGCATGGCAAGATCAGAGAAGCCATCTGCTGGGG  
CCACCTAGAATGACACAAGGCAATGTGATTCTCTGAGAGAGCACTGGGCTGGTGGCAGTG  
CTAGGTCTAACTTATCCCTCTCAGTTCCTAGTTTAAATTTATGCTTTTCTTTTGGAGAG  
G  
GAGGGGCAGGAGATAAGAAAAATCAACACAGAGCTACAACCTCTTTTCTGGATCATAAA  
ACTATACCCACGTCTACTGCACCAAAATTAGGAA  
Sequence 690  
CCCGCGGTGGCGGCCGCGTTTGTTCCTTGCCGTCCTGAGCGATGGAGCCCCGGGGTGCCT  
GGTTATTGTCCGCTTCTCTCTCAGATGCTTGCTTGTTCCTTCAAGAGAACCTTTTTTCG  
A  
TATTCATTGCTCCATCGATTGGATCCAGTCCTTGTTGAGAAAATTGTTTCAAGGCACTT  
A  
AGGCTGCCTGAAAGCCTTGAATCCTTGCTAAATATTCCAGTTGNTTTGAAGGTTGTACCT  
Sequence 691  
GCGGTGGCGGCCGAGGTACTACAGGAAGAACTAGAGGAAACGGGAATTTTCATCCATGTC  
CTGTGTATCTGCTGGCAACAGGTCAGAACCGGCCAGTATGTTATCCCTGCAGGCTGCCT  
AGGGTGCTCTCCTCAAACAGATCACCTGAGCCTCCTGCATCTATGAAAGTTATGACACAG  
CAACCAGTTACTCAGAGTCTGATGAGAAAAACAGATTTTAGGTTTGGGAAATGGGATTAC  
TGTAATTTACACATCCAAATGCAAACCTGGAGCTCTGATTTGAATTCTACCCTGGGGGAAG  
AACTTTGATGCTAACCCAACAAGGTACCCTGCCCGGGCGGGCGCTCTAGAACTAGGNGG  
GATCCCCCGGGCTGCAAGGAATTTGATATCAAGCCTTATCGATACCCGTCACCTCGA  
GGGGGGGGGCCCCGGGTACCCCAACTTTT  
Sequence 692  
GAGTGACTCCCCGCGGTGGCGGCCGAGGTACACCAATGTGACATCCTTTCCCAATATAG  
ATTACTTCATACCACATTGTCAAGGAAAGGACTAGAAGAATTTTTTGATGACCAAAAAA  
CTGGGGGCAAGAAAAAGTAAATCTGGAGCAGCATGGACCTGTCAGCAACTAAGGAACAA  
AAGTAATGAAGATTTACACAACTTTGGTATGTCTTACTGAAAGAAAGAAACATGCTTCT  
AACCTAGAGCAGGAGGCCAAGCGGCAGAGATTGCCAATGCCAAGTCCAGAGCGGTTAGA  
TAAGGTAGTAGATTCCATGGATGCATTAGATAAAGTTGTCCAGGAAAGAGAAGATGCCCT  
TAAGGCTTCTTCAGACTGGTCAAGGAAAGAGCTAGACCTGGTGCTTGGAGAAGAGACATT  
NTTTNGGAAGAATCATTTTGGCCCAAGGTTCAAGCNNTGGGGTTATTCTTTGGCCCCCT  
TAAATTAATAAAGGATNCCCATT

Table 1

## Sequence 693

TCCCGCGGTGGCGGCCGCCCGGGCNGGTACCTCAGGGACATTTAAGAGTTGGACGGTGCA  
AATATATTCCAAAAGGGTGCAACATGACACAGTGTATCCCCCTGCTTCTGTTTTGTAT  
A

TTTTTGCTACT

## Sequence 694

GGTCTCTGTTGGGGCTCCCCTTTCCTGAACCTTGGCCAAAGACAACAGGATATTCTTGGG  
GGTTTTGTTGTTGTTTTGTTGGCATNNTTCTGTGCCTGTTGGTGATTCCAGCACAGN  
CC

AGNGANCCGNGTACCTGCCC

G

## Sequence 695

GTGACTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACTGTATAATGGAGGCTGACCAGAGC  
AGTTTAGGAGATTGTAAGGGAGGTTTTGTGAAGTTCTAAAAGGTTCTAGTTTGAAGGTC  
GGCCTTGTAGATTAACGAAGGTTACCTAAATAGAATCTAAGTGGCATTAAAAACAGTA  
AAGTTGTAGAGAATAGTTTGAAGAAAAAAAAAAAAAAAAAAAAAAAAAGTACCT

## Sequence 696

NCCGCGGTGGCGGGCGGCCGAGGTACAGCAGGGTGCCTCATGCAAGAGAGGACTGAGTGG  
ATTTTCCTTAGGGATATTTATGAACCTTAAAGCAGGAGCTTAAAGGGAATTTGGGCCATA  
TTAACCACTTAGGTCATGATAAATGATTACATTTTTGGACATTTTGGTGTCTTAATGTC

A

GCAAGGGTTGCACGATAAGTTTTGACATGCATGCATGGGAGACATGTAGAAATCTAGTT  
ACTTACAAGTTTTTGGGGAAGAAGCCTGGACCCAGATGCCAGCTTTAAATAACAGGGGAG  
TCTAATTACTTCTAAATTCCTCACATAAGGAGTTTTTGCCTCTGGATGGCCTGCTTGAT

G

GNCCTAGGGNGATCTTTGCCCTTTTATACTAANAAGCCCTTGCCCTGGAAAGGGNTNTT  
TGGGCNNTNAAAAAATTGNGGGCCGGGGGAAANGGGGAAACCANTTTTGGGCCCCCCT  
NNNGAATTANAACCCCTTTTTTTTNGGNGGGAAAAATTTNCCCCCCCCCCCCGGGGGGG  
CCCCTNTTTTTTNGGGGGGNANAAANCCCCCCCCCTCGGGGGGGGAAAAAAAAA

## Sequence 697

CGCGGTGGCGGCCGCCCGGNCAGGACGCGGNGANGACAGCGNCAGGCGCTTGATTTCCCT  
GAGTCCCGGTGCCTCANCTGCCAGNGCCCACGTTCTGTAAGAAGGCAACAAGNTCTTCTC  
CTCTACAGAAGGATTTGCAACANTTCGGCAAGNTCCAAATGATTCTGATCGCAAATAC  
CTGGAAGATTGGGCAAGAGAAGAATTCAGAAGAAACAAANGTGCCACCGAAGAGGATACA  
ATCCGGATGATGATTACTCAAGGCAATATGCAGCTCAAGGAGTTAGAAAAAACACTTGCT  
TTAGCAAAATCTTAATATAGCATTATTCTGAAGGGA

## Sequence 698

ANCCTCACCGCGGTGGCGGCCGAGGTACGCAGNCCNCCTGTAGGGATCNGTNTTGTTCTNT  
GACNAGCCCTACGGTAATGCAGCCCGGAGCTTGTTTTCCGTAGCTGGGGACAATCTTCTG  
TCCTTGCTGTTTCATGTCGTGGAAGAGAGGGGCAGAGTCTTGCTCTGTCAACCAGGATGGA  
GTGCAGCGGCGTGATCTCAGCTCATTGCAACCTCCACCTCCTGGGTGCAAGCGATTCTCC  
TGCTCAGCTTCCCAAGTAGCTGGGATTACAGGCGTGCACCACTACATCCAGAGACTGGG  
ACTACAGGCATGGATTTTCAGGTTTATAACATGGCAGAGTGAATTCTGGCAACACACTGA  
GTGATGCTTGNAATGGCCACTATCAGGAATTTAAACAAGATT

## Sequence 699

CGGNGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTGTAGTGTTTTCTGATGTCTTTT  
CTAACAAATCTTTGCCTGCCAAAAGTCTCAAAAACATTCTCACGTTTCTAGATTTTATG  
CTTTAGCTTTTGTGTTGGGACTATGATCCATATTTAGTGAATTTATTTTGGGGGGGCA  
GAGTCCATGTTGCCAAACTGGTCTGGAACCACACACCCAGCTAATTTTGTGAATTGC  
GGGTACCAGCACACCGGCGCCGTCCTGGACTGCGCTTCTACGATCCAACGCATGCCTGG  
AGTGGAGGACTAGATCATCAATTGAAAATGCATGATTTGAACACTGATCAAGAAAATCTT  
GTTGGGACCCATGATGCCCTATCAGATGTGTTGAATACTGTCCAGAAGTGAATATGATG

Table 1

GTCACTGG

Sequence 700

CGGCCGACTTGATGAGCGGAGAGACCTGCACCGGTGGCACCATCTTGTCCTGACCTCCG  
CACCGGAAGCCCCCGCTACCT

Sequence 701

ACCGCGGTGGCGCCGAGGTACGCGGGGAGAGAGGAAAAGAACACAGATCTCGCATGGT  
TCAGATTTTTCTTTTAGGTCCAGGAGTAAGATATATCATACGAAATGAAATTATAAT  
NCTTCTTGGATTCTCTGGGAGCCACATTGTGAGCCCCACTTATCCCACAGCGTCTCATGTC  
TGCAGCAATAGCAATGAGTTACTTCTTAATCTTAATAATGGTCAACTTTTGCCACTACAA  
CTTCAGGGCCCCACTTAATTCATGGATTCCACCTTTCTCTGGAATTTACAACAGCAGCAG  
CAGGCTCAAATTCAGGACTCTCCAGTTCTCTTTATCAGCTCTAGACCAGTTTGCTGGA  
CTGCTCCCAAATCAAGATACCTTAACAGGAGAGGGCCAGTTTGGCCAAGGAGCCCAGGC  
AGGCCAAGGTTGATCCCTTACAGCTTCAAACACCGGCTTNAACACAACCAGGCCCCAGT  
CACGGGGATGCCCTATGTATTCTCTTCAAATGCCCTTAAGAGCAAGGGCCAGATGGTTT  
CAATACCTATNCAGGTTTACATGGGC  
CCGCGGTGGCGGCCGCCCGGGCAGGTACTGCAAGCAACAGTTACTGCGACGTGAGATCAT  
CAAGAACACGTAGAGAAACCCAGCTGTAATCATGCATGGAGATACACCTACATTGCATGA  
ATATATGTTAGATTTGCAACCAGAGACAACCTGATCTCTACTGTTATGAGCAATTAATGA  
CAGCTCAAGGAGGAGGATGAAATAGATGGTCCAGCTGGACAAGCAGAACCAGGACAGAGC  
CCATTACAATATTGTAACCTTTTGTGCAAGTGTGACTCTACGCTTCGGTTGTGCGTACC  
T

Sequence 702

GCGGTGGCGGCCGAGGACTTTTTTTTTTTTTTTTTTTTATGAATTATTTATTTCTTT  
CTCANAAAAGGATGCGCCTCCACTTAGCAAGGCTGGGCAGGATGTGGTTCTGCATCTGCC  
CACAGACGGGTGGTTCTAGACGGCCGCTCTAGAACTNGTGGGATC

Sequence 703

GGTGGCGGCCGCCCGGGCAGGTACAAGACCTTGACACGCCCAAACACTTCTGTCAGATG  
TTGNCGTTGGAAACTGTCTCTTACAGAAGCCAGTTGCAAGGACCTTGCTGCTGCTTG  
GTTGTGAGCAAGAAGCTGACACACCTGTGCTTGGCCAAAGAACCCATTTGGGGATACANG  
GGGTGAAGTTTCTGTGTGAGGGCTTGAGTTACCCTGATTGTAACTGCAGACCTTGGTGT  
TACAGCAATGCAGCATAACCAAGCTTGGCTGTAGATATCTCTCAGAGGCGCTCCAAGAAG  
CCTGCAGCCTCACAAACCTGGACTTGAGTATCAACCAGATAGCTCGTGGGATTGGTGGGA  
TTCTCTGTGAGGCATTAAGAAGAATCCAACTGTAACCTAAAACACCTACGGTNTGAAGA  
CCTATGAAACTAATTTGGGAAATCAAGAAGCTGTTGGAGGGAAAGTGA

Sequence 704

CGCGGTGGCGGTCTGCCAGATCCATGATGTGCAGTTCTCTGGAGCAGGCGCTGGCTGTG  
CTGGTCACTACCTTCCACAAGTACACGGGTCTATTTGGCNGTGACCTTGCTCTGGAGACN  
ANGATATCCCTTCAGCCTGAGGGAATTGATGTTGATGAACCCGGAGGCATCAGTTGGCTC  
ATAATCACCTGCACGTTTCATGCTCACCAGCTCCTNATTGTNNAGAGACAGNCNGGGACT  
CCCGGCCGAGGATGTACCT

Sequence 705

CCGCGGTGGCGGCCGAGGTCCGACGCAGCAGGCTCCGAAGATCATACAGACGCCATTACC  
ACTCTTGGCTCCCAGAAACCTCTGCGCCCCGCGTACCTGCCCG

Sequence 706

CCCTTAGCGTGGTCGCGGCCGAGGTACGAGTAAATTTTATTACCTTTAATTAGGCAATG  
TTTCTTAGATAAACCATAAACTGCAAAAGCAATTTTTAAAAATGTAAATAGGACTTCATC  
NAAAAGTAAACGCTTCAAAGATACTACTGAGAAAGTCACAGAATAGGAGAAAAATCTGA  
TGAGACTTTATGTCTAGAGTAATGAATCTTGTTAACGAATAACCAACCCCTTTTAAAA  
ATGGGCAAAAGATTTGAATAAACATTTCACTACAGACAATAAACAAATGGCCTTAAGCAC  
AAGAGATGCTCAACATCAGTAATTATTAGGGAAATGCCAATCAAACCTACAACGAGATAC  
CCTATATCCACTAGTATGGCTATAATAAAAAAGAGTAACAAACCGTTGAGGAGGATATGG  
AGAACTCGAGCCCTGGTCAGGTGTGGTGGATCACACCTGTAATTTCAACACTTTGGGA

Sequence 707

CCCTTAGCGTGGTCGCGGCCGAGGTACCCATATCCAAGGCTTATTGCAACTTTTAGTCTT  
GCCCTGCTACTTACACAGTCCAGAATCACTTGGGTGAGCATTCCAGTAGGACGGTGGCA  
TTTTAGGATTCAGAATATTAACCTATAAACCTGTCATTTGATTCTTGATTATTAATGTCT

Table 1

GGATCGCCTGTGGTAGGGGTGTAATCCCAGGAAGGCATTAAATATATTTGAATTAATGTA  
TATTTTGAGAATAAAAGGCTATTTCTAGAAAATATTACACACTTGCTTATGTTAAATAA  
AAATTTGCTATTTATTGAATATCCCTTACCCACCCCTTCTCCCAATGAAGATCTTATGCA  
TACCTTCACTGGAAGGTTTAAGATGTGACAATCTTAATAGATCTTTGTGAGACCAGCCAT  
TTCTCTGTTTATATTTTGNAAACCGCCANAGCAAGGGCCATGCCACCTTCTCATTGGACC  
T

## Sequence 708

CCCTTTGAGCGGCGCCCGGGCAGGTACATCCTTTTGCATGCTCAAGAGCCCATTCCTT  
TCATCATTCGGAAGCAACAGCGGCAGTCCCTGCCCAAGTTATCCCACTAGCTGATTGCT  
ATATCATTGCTGGAGTGATCTATCAGGCACCAGACTTGGGATCAGTTATAAACTCTAGAG  
TGGTAAGTGCTTTCACATTCTTTAAGCACTAAAGAAAACCTTTAATTAGCTACCTTGCTT  
CCAGTAATCAAACCTAGAGCTCCTCTGCCTTGTGTAAGTTGCTATAAAGTATTGACTATTA  
GAATGCTTTGAACTTTGGTTACTGNGAGCCAAAGTCGGTGCTCAAAGTATATTTTCATAGT  
CTCAATTATATAGTAATTTANGTTCTGAAAAATAGGTTCTGCTTTCATATGTAATATT  
TTGTGAGTATTTACTTTGGAAAGTTTGGTCGACCTAATGGATAAATTTAGAAGTTTATTT  
TCCTT

## Sequence 709

CCCTTAGCGTGCGTGCAGGCCGAGGTACAAGCATGGTCCATACCACTGTTTACTTTTCTAG  
AAAGTTGTTAGACTAATTTTTCAACAAAAATCTTTATTGCTTGGTAACAAAAGAAGCA  
TACTAAAAATCTCAATAAGGCACAGTGCTNTAGAAGCTTGAGCATTCAACATAAACTT  
CTAATTAACACGAACCTTGCTCTTATTTAGCCATTGCTGTGTGGGCTTGAGCCAGGA  
GAAGATGCAGAGGAATTTACAATGAATTACTTCCATCAGCTGCAGAAAATTTTCTAGTT  
TTGGGGAGACAATTACAAACATNGTTTAA

## Sequence 710

CCCTTTGAGCGGCGCCCGGGCAGGTACGCGGGCTAATCCCAGTTATGAGGGCTCTGCC  
CATGACCTCATCACTTCCCAGAGGCCCTTACCATCTAATACCAATACATTGGGTTTAGAAT  
TTCAGCATGAGAATTTGGGGGAGACAGTCAGACTGTAGCGATGATTCTGGAGTATTCATC  
ATTTAAGAGACACTTAAAAATGATCAGAAAGGAGAGGATGAAGGCTAGAACTAAGACTTT  
AGCGTTGAACATGGAAAGGAAGTGATGACTGCAGATATCTCCAGTACCTCGGCCGCGACC  
ACGCTAAGGGCGAATTCAGCA

## Sequence 711

CCCTTTGAGCGGCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTNGAT  
AGCCATATACCAAATAAATGTTCTGTGACTAGGGGTTATGGCACAATGGGTATTGAGACA  
CTAAAACTCTGCTTCAGGCTTCCATCCTCTTAATTTTANAATATCTCTGATTTCTTAAT  
TTTCTGATTGACATCTTTTGGTAGATTATCGGGTTTTTACTTTATGTTATTGACTGATCC  
TTTAGAATGATTTTCTTTTGTCTGCGAAAAAAATGCATTCTAAATCANATTCATAA  
TACTTTGATTCACTTCCAAGGAT

## Sequence 712

CCCTTAGCGTGCGTGCAGGCCGAGGTACTTACAAAAATTTTAACATTAGGAGGTAATTAT  
AAGTAGATTCTGTGATTAGGACTTCATTCATGTATCTTTTGCTACATAAACCTTTGTTAG  
ATTAAATGGAAGACACCTGCTAGGTGATCTTTTATAAACATATGAGTAAGTCATATA  
TCTTTGTTAAATTTCTGTATGTTCTTTTTTGTATAAAGATGGAGAGAAAGGATGGAGTGA  
TACTAAGGACCCTAATAACATCTCTGTTCAAATTAATTACTAAGTGATAGAAGTATTCAT  
ATGCCATTAAAGATTTGCCAATTCATTT

## Sequence 713

CCCTTTGAGCGGCGCCCGGGCAGGTACTGACACAAGGACTCCAGGCCACACATATCT  
TCTTGAAAGCCCTTTTCTGTTTGAAGAAAAAGATCGTTTGATTGATAGAGCAAAAGAA  
GGCCACAAAATGAATTGTCTTCTTGTGGGCTGTGTTTCAGAACGGCCGTTTGTGGGCGA  
TGCTGACCTTGAAAGACAGAAATTTTTCAGATTGAAACTCAACGGACCCAGGTAATTCT  
TTGGCTCAAGACCTGGGTTGCTTCATTATATTTTCTATTTCCCGAGCCTATAAGAGCA  
TATTTGTGTCTTGTAAGGTGCCTGG

## Sequence 714

CCGGGCAGGTACATATGCACTATTTAGAATATGACATTAATCAACCACTAGAATTTAAAT  
CAGGTTATAAATCCTCAAAATCACCAGAAGTATAAATTTAAATGAAAAACCCAGACCACA  
GAACAAAAACAGAAATACCAAAAAATAATCACAAAAATATTAACAAACAGTATATAAACACA  
GTGACAGAATTAGGACTAAACATATCTGTAAAAAATAAATGTAAGGGTAATCTCACCAA



Table 1

TTATGAAAAAGACCTTCAGATCATATTTTAAAACAAATTTAAAACTCAACTGTATGTTT  
ATGCAAGAGACAGATTTAAAAATAAGAGACTCAGAAAGCTGGAAATAAAAAGAAAGTGC  
AAAGAAATAGCAAACAAATACAGGCATAAAAAAAACAAAGATCCCAATAGTACCTCGGC  
CGCGACCACGCTAAGGG

Sequence 715

CCCTTAGCGTGGTCGCGGCCGAGGTACGTGTGCTGGATATGCAGGCTTGTTACATAGAAT  
TGGTGTAAAAATTTGAAAACCATGAAAAATAAAACAATAAAGGATCTAGATGCTAATAAT  
GTGGTTAGTTAACATGTTGACCATTTCAAAGCAAAATAAGTCTTTGATGTTTTATACTAT  
TCATAGCAAGATATAAGTATTTAATCTGCAAAGACGTGGATTTGAAAATTCAGCTGCCAA  
ATGTAAAGAACAGATTCCTAGATTATTATTAATAATATCTCTATAAATATTATATTTATC  
AATAATGGGTACCTGCCCGAGCGGCCGCTCGAAAGGGCN

Sequence 716

CCCTTTCGAGCGGCCGCCCGGGCAGGACAGTGGTGTGATCTTGGCTCATTGCAACCTCCA  
CCTCCTGGATTCAAGCGATTCTCCTGCCTCAGCCTCCCAAGTAGCTGGGACTACAGGCAC  
CTGCCACCATGCCCGTGAATTTTGTAT; TTTAGTAGAGACAGGGTTTCACCGTGTTGG  
CCAGGCTGGTCTTGAACCTCCTGACCTCAAGTGATCTGCCTACCTCGGCCTCCTAAAGTG  
TGGAGTATGGGCGTGAGCCACCATGCCACCTCCTGGGTCATTCTTCTGATATTACCA  
GGCATTTTTATGCTGATCTAAGTGAAAACCTGGATATTTTTTCTCCAAAGTTATTTCT  
TAGTTCTACCTATGACATGAGGGTGATCTTTATAATTTTTTTTGTTCCTGAAAGAAA  
TAAACATTGCTTAANGGAGAGTTTGGGGGAAGTGATANGGGATCTGCAGTTGGGACT  
GGATTTTTCGGT

Sequence 717

CCCTTAGCGTGGTCGCGGCCGAGGTACTAATCTAAATGCTAGACAGTTCAAGTGATGCTT  
TGGAGACTTACAGATAGCCAGCTAGAGAACTACCAATGATGATATCCATCACGAGGAGTT  
TGGTGGCCAGCCTCCAAGATGGTCTCAATGATCTTTGCATCTTCATATTTCCACCCGTG  
GTAGTCCCTCTCTCAGGGGATTAGGGTTGGTCTGTATGATCACCACATGGCTGCAGTAA  
TGGTATGTCACCTCTGAACCTTAGGTTATAAAAGACTATGACTCTCATCTTGGGTGTCCAC  
TCTCTGTCTCTCTGATCTTACACTCTAGTGGAAGCTGCCATATTGTGAACCTCATGGAAG  
GCCACAGGGTGAAAACTGAAGCATCTAATCAACAGTTAGCAAGAACTGAGCCTGNCA  
ACAACCATGTGAGTGACCCCGGNAAGATTTCAGTCCAGTCAAACACTTGANATAACC  
GGCAACCCCTAAGCTGACAGCTTAACTGCNANCTGATAAAAGACACCCTTGGGNCAAAAC  
CATTNNGAACCATTTCATACCCCA

Sequence 718

GATATCTGCAGAATTCGCCCTTAGCGTGGTTCGNTTTTCGAGGTNTTNGGGCGGGGATAAA  
CATGGCGACGTCTCTGCATGAGGGACCCACGAACCAGCTGGATCTGCTCATCCGGGCCGT  
GGAAGCATCAAGTTCACAGCAGTAATGCACACTGTGGCAGGAGAAATCGCTTGAACACGAC  
AGGCGGAGGTTGCAGTGTGACGAGATTGCACCATTGCACTCCAGTCTGGGCGACAAGAGG  
GAAACTCCATCTGAAAAAAGGAGAAATCTTTTATTTTCTACTTCTCTTCAGATTGTG  
TTATGCATTTTCCAACATATGTATGCATCACAAGCTATTCTTTTCTGAGTTATAGCTACA  
GTTTTCTACTGTTGTCTNCATGCCATTTTCATTTACATGGTACCTTG

Sequence 719

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTNNNTTTTNTNNNTTTNTNTNNNGGAGAC  
AGGGTCTCGCTCTATCACCTAGACTGGAGTGCAGTGGTGCAATCTCGGNTACTGCAACCT  
TCACACCCCAGGCTCAAGTGTCATCCTCCCGCCTGAGTAGCTGGACCACACGTGCGCAC  
CACTAAACCCAGCTGTTTAATACACCATTTTAAACCCAAAACATTAAGAAAAATATAGGA  
ACAGTAAGTAGATTACATTTTGTAACAGACAAAGCTTACAAAGTTTTCTCAAATATGAA  
AGTCATACTAAACTGGGAGACTGTTAACTTCTTGATGGGGTTAATCTCTAATATGAAGCC  
NCAGTCATAGCTAACTACAAATTACATATACAATGCCAAAAATNTTCAAAAATAACATTT  
TTTGCCCTTAATGGATTACAAATGCTAACCNACATAAAGACCCTGGGAAAGGGTTCANAA  
TCTNCTCATTACATACTTTCAAAATATCTTNCCTTTACTTTTCATGAAATGGACCCCGGAA  
TCTATGTAAGTGATGACNTGNCCGGNGTTCCAGGNGTTTNTTAACTNAAACTTGAANAAA  
GGCCCTAACTTAAATGGGTTTTTGAAANCCTTTTCCAAATTNNGGNTTTTGGTTTGGAC  
CCCNNTTNAANCTTTTTANCAATTNTTNTTTTAAACCCCTTGGGGGGGGGGGGCCCCC  
AAAANAAAAANGGCCCTTGGGTAACCCCTTTTTGGG

Sequence 720

CCCTTAGCGTGGTCGCGGCCGAGGTACTTGAAGAACATGGTAAAAATATGTTCACAATAA

Table 1

TATTTTATCTTAGAAATGTATTCAGTAAAAAATCTCTTTATTCAACTATCCTCTTGATTG  
AGGGGAAAAAAGGATTAGCATGGGAGATAACAGAATAGGAAGTTTAGGAGATAATGAGAC  
TTCTGTTTTAGTAAAGTAAATAAGCTTTAATAGTTTTTGGTCATGTATTCACTTTACCA  
GCCTTGAAGATATTTGTAGGAAATTTTAAAAGTTTCTCTATTTTCATCCCCCATGATAAAA  
ATTATATAGAATAAAAAGCTGAATTGAACTTTCTTCACAGCACACTGAAAAATATCTTCTA  
TAGCATTAAATCAGATCACAGAATGCATATTTAAACCAAAATTTGACTAAATTTATTTTA  
ATTATTTAATTTTTTCTGANACCGGAGTCTGGCTCTTGTGCCCCAAGCTGGANTGCAAT  
GGCNGGAACCTNACTTATTGGAAACCTCCGCCTCCTGGGTCAAGCCAAATCTTCCCNCTTG  
GNCCTCTAAAGTGCCTGGGATGGCAGGCCTGTGCCANCCCTTCTGGCCCCANAGNNCCGG  
GTTTTGGATGGTTGGGTNGGTTNGGGGGTTTTTTTTTCCCTAAAAACCTTNAATTTCC  
CCTTTTGGTTTTTTTCCAAAAAATAAACCCTTTTTTTTTTACCCCCCCTT  
TTTT

## Sequence 721

GCAGTGTGATGGATTCTCANAATTCCCTTGACGGCCGCGGGCTGGTACGCGGGGTAA  
CTATGTTTTCTTTAACAGAAAGTTCTGTTTTGTGATCCTTTTAAAAATAAAGCTTCACG  
GAAGGTATGAGAATAGTATTTTTCACTTTAAATTTCTCATTACCAGAAGACCATGTGGT  
AATTCTCTGTATACAGTTAGAACAGCACGGAACCTTGAAGGCCTAAAAAATTAGCTGACC  
TTGTTAAAAATGTTGGCGTGAGCAGTATATTACCTATCTTTTTTTATTGTGTGTG  
TGTGTGTGTGTTTTAACTAATTGGCTGAAATATCTGCCTGTTCCCTCTTTACATTTTT  
CTTGGTTCTTTCTTATTTATCTTTGTCCATCTTGGAGATCTACTGTAAAAGTGAATTT  
TTTAATGGAAAACAGTCCCAAGTTTACTCTCAGTGGGTTTNGGGACATCAGATGTAA  
TTGAGAGGCCAACCAAGGTAAGTCTTCATGTCAGTNGTTTGGTTGAAGGAAACGAGCCTA  
TGAGGGTCAGTTTTTTCCCAAAAANGGAA

## Sequence 722

NGCCCTTAGCGTNNTCGCGGCCGAGGTACATGAACCTATTAATAAACCATTTCATGCTTCC  
CAGTTTGGCAGATGTGAGCAAACTATGTATAGGAATTCAAAGGTAACTTTTCTTTTCA  
TTACTTTGACAGAAATACTGTCAAGTCCAATAGAGAGCACAGACTTGGGAGCCGATTGGG  
TGGGTTTGAATCTCTGCTCTGCCACTTTTATTAATCATGTGAGTTGAGTATGTGACTTAA  
TCTCTTTTAGCTCAATTTCCCATCTGTAAAATAGGAATAATAAAATACTGACTTCAGA  
GAGGTTTGTGAGGATCAATTAGACAGTCATGTTAAGTCTGTAAATGTTTCTGTAATGGG  
CAAGATGACAAATATTTTGAATTTTGTGGACCATGCAGTCTTTATCATAACTGCTTAACT  
GCCATTATAGTGAGAAAGCAGCCACAGACAATATGTAAATGAAAAAGTGTGTCTCTGTTC  
CAATAAACTTTATTTTCAAAAACAGCTGGCTTGNCACATCTGGCCTATGGGCCCATAA  
GTTGGCCCATCTCTAATGTAAAGAAAGGACTTTANCCCAAAGCCACAACCTTGCATAGTAA  
TGCTTTAAAAAATGGTAACATCTTTACTGGTATTAATAATTACTACTGCATCTTAACT  
AGNAGCCAATTGGAGTAATGAATCCATGAATGGTATAATGGTAAATACTAACCCTT  
Sequence 723

GATATCTGCAGAATTCGCCCTTAGCGTGGTGCAGGCCGAGGTACTTACTTTGTTGCTCT  
TTTTCTAAGTTTTTAAAGATGGATGCCAATCTCAGGCTTCTTTTCGTGTGTGTATGTGCGT  
ATGTCCATAAATTCTCTTCTAATTACAGTGTAAGCCACATCCCACAAGTTTTGATAGTCA  
CAGAACTGTATCGTCACACTATTTTTTAATTTAGTAAGTTCTTCACTGATCCCTGTGTA  
ATTTAGAAATGTTTCATAATTTCCCTACATTGGAGGGGAAGATAGTTTTGNTTTTATTAT  
TAATTTCTAGCTGTANTTGAGCTCTTGTGAGAAAATATGGTTTATTTTAAGTC

## Sequence 724

CCCTTTTNGCGGCCGTTNNGGCAGGTACTCCTCAGCTTGTGCTGCCCTTCTCGAATGAC  
TCGCGTTTTCTGCTTTTCATCACTACACCTCCCACCGCTCTCCATCACCTGCTCTGCTCTT  
ATAAGGATCCAGAGAAATGGAATAATCTTATTGCTGATCTATGTAACAAGTTGAAGAAT  
CGCTGAAAAGAAAATACAGTGTGTCTAAACTGGAAAAGTCCTGTAATAGTTTGTTCATGA  
GCATTTGCACAGTGGAGTTACTGTTTCATCATGGGGGTAC

## Sequence 725

CCCTTAGCGTGGTGCAGGCCGAGGTACTAATCTTAAATATTAACACTGGTCAACT  
AAAATGCACAAATTCATGAATTGGATTTGCACTCAAACAAAAAATAACCATAGGCAGT  
ATCATTTCTACCTTTGTAAGAGGCAGGAATATTCATTAGACTCTATGCTTGACTTTTCAT  
ATGTATTTTAACTGTAGTAGGCTATCGGGTCTAGTTTAAAGCTTCATTTCTAAACTACT  
CAACAGCTCAGAACTGACAAAGATCACAAGAAATCAACTATTAACCTCTTGCCTGAAGAC  
ACAAATGAAATATTTCCCTATTTTACAAAGCAAATAGATTCCAAGATTTTCAAAGCCAT

Table 1

ACTCCTGCAGTTCCTGCGGTTTCAAACCTTAAAAATCAT

Sequence 726

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTAATCACTTAAATAAATAATTGGTAAGATGATT  
TTATCTGACAATTAAGGATATATGTGAAAAACCTTAAAAAAATCTATTTTCATTAC  
ATGTTGAAATGTTCTGTGCTTAATCCAATACATCATTTAAATCTTTTCACATTTGGACA  
ACAGAAAACTGAAATCTATGGATTCCAAGCTGCAAAGTATTTTATCTAAATTGCAAATC  
AAAAAC

Sequence 727

GATATCTGCAGAATTCGCCCTTTTCGAGCGGCCCGCCCGGGCAGGTACATTCTATTGTTATC  
TCTATTTTTTGGATGAAAAACAGCAGCACAAGAAGTTCAGTAAGTGGCCTAAGGCCAC  
ACAGCTTGTCTTCTGAACTGGACCCAAACCCAGGCAGTCATAGAACATGCTGGTCCG  
TATTTGGCCGCTTGCTCTATGGGGGACGGTGCTCCAGGAACACAGCAATGCGGTTTAGGA  
TTCCAGGACCTGGGGCAGCTGCTGCTTCTTTCTTAGTTCTCGACAGACCACTGAGTGCAG  
TTTTCTAAATCTTTCCCACTTTGATATGTGGTCCATAAACTGCTTCCACACGTATA  
ACCCACTGTGAAGTTTAAATGATTTTCATGTTTGGGCAAATTCCTACTGAATGTTAAGCT  
AGATAGGAAACAAGTCTGACTAACACAAAATGAAGGGCTGAATGAAGAAGTCNTACTTT  
TATAAAGGAATTTTNCCTTCCTCACCAAATC

Sequence 728

CCCTTAGCGTGGTCGCGGCCCGAGGTAATTTTTTTTTTTTTTTTTTTTTTTGGTAGAG  
ACGGGACCTCACTGTGTTGCCAGACTGGTCACAACTTTTGGGCTCAAGCAATACTCCT  
GCCTTGGCCTCCCAAATGCTGGGATTACAGGGATAAGCCACTGTATAGAGTATGAAAA  
TATTTAAAGAAATCTTCCAAAGGAGGACAGCAGAAATGAAAAATAAGTAAGTTCAAAC  
GAATCCTTGACACAACCTGGTTTTATCCCAATGCCTCTTAAAAAGAAATCGTTCCATGGGT  
GGCAGGAGGGGTGTTTTCATGGTGTGATGCACCGTGACTTGTATTNAAGATGTAAGTCC  
AGTGGTCCATCTATCACGTTTTATACCTTTTCAAAAAAAAAAAAAA

Sequence 729

TCTNGATGCATGCTCGAGCGGCCCGCCAGTGATGGGATATCTGCAGAATTCGCCCTTT  
CGANCGGCCCGCCCGGGCAGGTAATTCAGGATGAAATCAGAAATCACAGTTGGCCTTTTG  
CCATAAGGGAAGGGTATTTGGAGAAGAGTCAACCACCACTCATGCCTCTCCCCTGCCAG  
CAGCACCTTGGATTTTCTGGCTTTATGCCTCCTGTTTCCCCTGGCTGAGTAAGTGCAGG  
CATTAGGTTCTCTACACACGATATATTACAGGGAATGGCAGCGATGGTCTGGAAGGGC  
AACACTGGCCTTCTTCTCCTGAGCACTAAAATCCTAAACATGCAACTTAAAAAAAT  
TCTAAATGTGAACACCACCTTTTCAGT

Sequence 730

GATATCTGCAGAATTCGCCCTTTTCGAGCGGCCCGCCCGGGCAGGTAATCACTTAAATAAAT  
AATTGGTAAGATGATTTTATCTGACAATTAAGGATATATGTGAAAAACCTTAAAAA  
AAATCTATTTTACATGTTGAAATGTTCTGTGCTTAATCCAATACATCATTTAAATTC  
TTTTCACATTTGGACAACAGAAAACTGAAATCTATGGATTCCAAGCTGCAAAGTATTTT  
ATCTAAATTGCAAATCAAAAAACATCTATAACATCTTGTGGGGATACAAAGTTCTCCTG  
GCTG

Sequence 731

CCCTTCGAGCGGCCCGCCCGGGCAGGTAATTTCTGAAGAATACATCTTCGTTCAATGTGG  
TCGTATTCTTAATTTTTCTATAATATTGCTTGTAACTTTAGAGTTATGGTTTCATTTT  
TTGACTATTAAATTTGAAATGTTGACATCAGCAGTTGACTCTTCTGTGTAGATCATAAT  
TTTTTAATTAAGAAGACACTCTCAAGTGTTGAAGTATAATTGTAGAGTAAATCTAAGTG  
GAGGATATCGTAAATCTTTTTTGTCTTGGTATTGACATGTAATGTTAACATATGTGAA  
TAATTCAGTCCCCGATTGTACAGGTTCTATGTCTTTACCTCCTTTCAAATACTTTCTT  
TAACAAATACTTTGACAAATTTATTAACCATTTATAAGACAAGACTTACCAAGGTGGTGT  
TCGTTTATGAATCTTTAAATGTTTTCCAATACTTAAGATACATCAAAATTATAGGACTTC  
TCAATCCATCCTATTGTTACCAGAATATNAAA

Sequence 732

CCCTTAGCGTGGTCGCGGCCCGAGGTAATTTCTTTCTTTTTTTTTTTTTTTTTTTGAGATG  
GAGTCTCGCTGTGTTGCCAGGCCGGAGTGCAAGTGGCACAATCTCGGTCACTGCAAAC  
GGCCTCCTGGGTTTCATGCCATTCTGCCTCAGCCTCCCAAGTAGCTGGGACTACAGGTGCC  
CGCCACCAAGCCAGCTAATTTTTTTCTTTTTTTGATTTTTAGTANATACGGGGTTTC  
ACCATGTTAGCCAGGATGGTCTTGATCTCCTGACCTCGTGATCTGCCTGCCTCGGCCTNC

Table 1

CAAAGTGCTGGGATTACAGGCGTGAGCCACCACACCCAGCCTATTCCTTTACTTTCTTAA  
ACTTTCTTTCACTTTACTCTATGGACTCACCCTGAATTCTTCTGCTCAAGATCCAAGA  
ACCCTCTTTTGAGGTCTTGATCGGGACCCCTTTNCTGTNACACNAACTGTATCCCCCTT  
GGCAGACATATGAATTTGCACCCCCGCTTGGGTCTTCAATNTCCAGGGGATGAAACAAGG  
GAGGNAACCGAGGGGAAAA

## Sequence 733

CCCTTAGCGTGGTCGCGGCCGAGGTACAAAATATGTGAGAACGTATACTACTTCTCGGC  
CACAACACTACTATTTTTAGATATTCATAAAATAACCTCTGATTGTGTTTCACATTGCCCA  
TTCAGTTCTGTCCCAATCTTATAATTCTGATTAAATGTTCTGGCCTCAAACCTAATTTTA  
AAAGGCCACTAACTCCAAATCTAGGAACAAAACACTCTGTAAAGACTCTGTAACTTGAT  
AAAATTAACCTGAAAAATCACTCACTCCAATAAACTATGATTTATGTAGCTCATAAGA  
GGGTGAATTTGAATATTTACTCTATGAAAAAGCCTAAGCAATTCAATAAACTTGAT  
AACTGCACGTTTAAGTTTGCAGCATCTTGACCT

## Sequence 734

NGCCCTTTCGNTTTNNCGCCCCGGTCAGGTACTTTCTCTGAATTTCACTAGCTACATTAAA  
AAAAGAAAAGATCAAATGCAATAGATAGCACTGTAATAGATTTTGCTACATTAACAAAAA  
TCCATTTGAATACACAGTGAACATAAACACAGAGTGGCTAAAAAGTCCCTTCATGCATA  
TTTACTTAGCAGAGAGCTCTTGAGAAAGACCCCAACCAATAAACCCCAACCAAGCAAATC  
CAGCTACTTCTCTAGCTGAGAGGGTGAATGACTCCAAAATATTGTTTCAAGCTCAAAAA  
GCCTAAACAACCTCCACATAAAAAACAATACTATCTAATTGGACATTTACCTTTTTG  
GAAATAAAAGGCCAGTGGGAAAAAAAAAAAAAAAAAAAA

## Sequence 735

CCCTTTTCGAGCGGCCGCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTNGNCACAGAC  
ACAGGCTGGGAATTTCCCAAATCTTACAAGTTCTCGTCCCCTTCCCTTAACAACCTCTT  
CGGAGTATCTCCGTCCTTTCACACTTTATTGTAAGCGAGGAGAGCAGCCAGGCTGCACCT  
TTAACATTTCACTCACAGGATCTCAGCTCAGCCAAGTCTCAGCCATTTGTAATGAGGA  
TCATTTCTTCCGTTCCCGTGACCTGTCCCTCGCCTCCTCTAAGCCTCAGCAGAAAGG  
CCTTCAACATCCACTTTTCCACAACATTCTGTCTATGATACCTGCATTCTCTGAGATGCT  
AGAAGCTTTCTCTCCAAGCTCTTCCCTTCTCTNTCTGAGCCTTCACCCGAGTC

## Sequence 736

CCCTTTTCGAGCGGCCGCCGCCGGGCAGGTACTTGTCTGCTTCAATAAAATTTGTCTTTGATT  
TCACTGGTGGAAGGGTGCTTGATCCAGCTTTTGCTTCTCCATGAGGAGGACTCTGTTTTT  
CAGTTTCCGCTTTTATTCTCTGAGGGGAAAAAAGAACATACATTANAACTGGA  
CAGCAGAAAGACTGAGTAATTTCTTAAGTTCTATAAACTCATTGGAACCTTACAAAAA  
GTTGGAAGAAATGCAAAATTAATAAAATAGATGCTAAATTTGTTTCATCTAAATTTT  
TAATTTACACAAATAACATAAACTATATGAATAGGTACCTCGGCCCGCGACCACGCTAA  
GGG

## Sequence 737

NATTTTTTTTTTTTTTTTTTTNGTTTTGAAAACCCCTTATTGCGTTTCTCAGTAACAGT  
GATGCATTATAGAAATTTCTGTCTGCTAACTTCATAGCAAACCGATCCCAGTCCTCACC  
TNATTGTGTGGTAGCCAGCAGCAGAGAAGATAGGAATTTCTGCCCCCTAGCAATACTG  
TTCATCCCATCAGATGCGCGAAATGCCAGTCTGAATCATTTCTCTGGGTAGATTCNACA  
TTGAGGGTTGATTGGCTGACCTAATGTNTTTTCCAAAAAGGAAAATTTCAACAAGTTGCC  
CGCATTATTCTATGAATGANAATTAGATNTCATATCAAATTAAGAAANGAAAAAGCACC  
AGANGACCAGAATACTACATAAAGCATCTCTTACTACAAAAA

## Sequence 738

CCCTTAGCGTGGTCGCGGCCGAGGTACTATCTGCTCTGAATTAATTTAGAACAAAAAT  
CACCTGCCGTGCCACTACACATGGACATAATCAACTGCTAAATTATGATTTGTTTTCTTC  
CAGTTACTTTTCCAATTATTTTACATATACAAATATTTCTTGGTAGAAGAACAAAAGT  
GGCACTATTCAATTGTGTAGTTTTTTGTAACCTATATTTACCCTAAGCATTTTCTCGTT  
GTCTTAAATTATTAATNGAAAATTTTCATGGCTAAATAATGCCTAGGCTGCCATGAGTC  
TTTTCTCCTTCTATAAACCGTGTGACATTCTTTTATATATATCTTTGAGCACATCTGCA  
ATGATTTCTTTGGAATAAAATTTCTAAAGTTGCTGATCGAAAGAATCAGGGATTTTTA  
AGTGTCTTTCAATTTGGCAAAGTATTTTTGAGAAACAAGCCATTTAAGTTCTGAAT  
AAACAAATTTCTTTTATGGNGCATTTAAATCTACCTCCTTGATGCCATATGCNNGGGA  
AAAAATGGAATTATTTGGNCAACCATGCTTTCAGATACTTGAAGAATTGGTCCTAATTNC

Table 1

TTCTTTATGACCTATTCTGNGTTCCTGGGACTNTACATTAATCTTTNCCCATGGATATTT  
ACCATGGAAAGGG

Sequence 739

CCCTTAGCGGCCGCCCCGGGCAGGTACACAGTTTCCTTCTTCGAAACAATCCAGAAGTAGG  
CTAGCAATGGTCACCCCTACATACTTCCGCACACATCTTCAAGAACAGGACACCATTAC  
CACACCCAAGAAAACCAGCATTTAATGAATTTATTAGGAGTNTCATCCAACATACTCAA  
ATTTCCACAGCTGTTCCGAAAGTATCCTTCAATTCTGGATCCATTGATGGNTCACAGGTT  
GTATTTGGCTGTTACATCTTTTTAGTTGTTATCCTTCAGAGTAAACTGGCCTGCCCTC  
TTTCTTTCTTTACAATATTGACTCCTTTGAGGAACCGGGGCTGGATGTGGAGCATTCTCC  
ATTCATCTGATTGTTTCCATGTGACCAGATTTCGGGGTCACAAAATTTNTGGCAAGAACCC  
TTCACAGATGACCATGTNTTGGTTATTAGGTAACAATAGATTCTCAAAGTAGAGAACTGG  
GAAATTGACCTTTGTCCATTACAAATAGAAATTTTTTTTGAATCTAGAAATTCCTCAN  
GAATNAATTGATTTCTTTTCTNTTTTCTTTTTT

Sequence 740

CCCTTTGAGCGGCCGCCCCGGGCAGGTACATTGTCTGCATTTTGAGATTTTCCTATTAT  
CTTTCTGGTGTTGATTTCTGTTTAATTATACTGTGATCTACAAGCAGCACTGTATTATTT  
CCATTCTTTTAAATTTGTTAAGGTGTGTTTATGCTCAGAATGTGGAGTGGACTATTTTG  
GTGAGTGTCCATATGGACTTAGAAGAATGTGTTTCTGCTGTTGTTAAATGAAGATGC  
TATGTATGTCAATTATTGTTTGATGATTGATGGTGTGAAATCAGTTATGTCCTCACTGA  
TTTTCTGCCTGCTGGATATGTCCATTTCCAATAAAGGTGTGTTAATCTCTATCTATAATA  
GTGGATTTATCTATTTCTCCCTGCAGTTCTATCAGGTTTTGCCTCATGTAAGTTTTGGAT  
GTTCTGTTAAATGCATACACCATTAAAGGACTGTTAGGTATTCTTGGGGAATTGACCCCTT  
TGGTTTCTATGTAATGCTCTTCTTTATCATTGGATAACTTTCCCTTGCTATAAANGCCTG  
GTCTGNCTGGGAAAAAANACACAGGTNGNTACNTCTTCCCTT

Sequence 741

CCCTTTGAGCGGCCGCCCCGGGCAGGTACTTCAGGTTAGAGATGACTTCAATATATGTCG  
CAGACCTCCCAAGGTGAGCATCACACAGCACTTATCATAATCCGAAGCAGCTCCACAGAG  
GCTAAGATGAAAAACAAAATCTCAGGAAATTTATGTTTATAAAAATGATACTTGCAAAAA  
AATGAATGGAACCATCTCCATTGCTTATTTAGAGTGTGACTCACTGAATAAGATTTTAA  
ATTAGTCAATAGTATTGGATGCCTCTATATCTGCATATCAATAGGCTCATAAACAAGGT  
GCTCAAAGAACTGCCATCAACCACTTGGTTTCATCTTTGGACACCACACTGGTTATCTT  
NCTTTGGCCTCTGCCATAACGGGTCCAGGCTACGTGCACCAAAGGGAAGAATTGGGGT  
NCTTCTTCCCTNCCCTGGTTTGGTTAGGA

Sequence 742

CCCTTAGCGTGGTCGCGGCCGAGGTACAGGTTTCCCTTGCCTCAACTTCTCATCCTGGGT  
GATGAGACTGTTACTTTCCTTCTTGATAAAGAGGGCAACTTTCATGTAGAAATTTTACC  
TCCTACTTTTAAAGAAAAGGAAAATCAGAGTGCTTTAAAGGAAAATCAGAGTGCTTTTCT  
TGCACTGCTATTTTTCAAGTGCTTTAACTCAAAAAATCAATATGCCAAAGTGGCATG  
TTTGGGGGTATCTGGTTCTGAATTCCTTCAGGAAAGATAGAAAGCAAAAGCAAAATAATA  
GGTTTAAACTAAAAATATCCAGGTGCGGTGGCTCACGCCTATAATCCCAG

Sequence 743

CCCTTTGAGCGGCCGCCCCGGGCAGGTACTCCTCCTTGGCAGCATCAATCAGGCAGGGCT  
CAGCCACACCCGGCTCCTAAAGACAAGAGAGCAGAGAAAAGCAGAATGGTGTTTAGAGAC  
CATCGCAGTGACCTGATCCTGAAAGCACCTGTAGGAAATTGGCCTCCGCCAAGTGAATGT  
GACAATGCAGTCAGCCACAGTGACGGAGTGCAAGATCGGATCACCACACAGATCCAAGAG  
ACCGCTCACCACACCTGAGAAACAAGAACCAAGACAGCCTCATGGAGGTGGAACCGTGC  
TACGCAGTTATGGCTTCACTACTGAATGCGATCTTGCAAAAG

Sequence 744

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGTGTTTTTTTTGGGTAATTTTCTTGAGT  
TAGAAATGTAGTTAGAACTGTGACTAACGGCATTGCCTGGAATGTGCTACAAACACGATT  
AGATATTCATTTATCTTCTCGTATTAGACTGCTTGTAAAGAGACTCAGTGTTTAGACATT  
CATTTCTCTTCTTGTATAAGACTCCTTGTATAAGACTCGGTGTTTCAATTTATCTTTTAA  
ATTAAACCACAACAAATATATGAGTTTTTAACCATTGCAATGTGCAATAAATAAATATAT  
CTGAAGTAGCATTAGCCTTCTAGTTTTTAAATAATAA

Sequence 745

CCCTTAGCGTGGTCGCGGCCGAGGTACCTTTTTTTTTTTTTTTTTTTTTCGTCAAAGTCA



Table 1

TGACATATTTTTCCCATCTTCTTATTTCAACCATTTGACTGGTTGTCCAGCCCCAAATTG  
TTGGACTTTTTTAAACAATTCACACTGACTGGCAGTCTTCACCTTTAAATNGTTGAGTTC  
CATCCCTTTTAAATCATTTTAAACATGATTTTTTAAATTTATCTCCATTACCTTATTTTG  
NGTTTACTTTTTTACTTTTTATTTATTTCT

Sequence 754

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTGGTGGGGAGCTGTAT  
TTATTTCCAGGGCTGTCAAAACAAATATCCATAAATTGGGTGGATTAGAACAACAAAAA  
TTTATNTCTCTANAGAANAACGTTTTCTTGCCACTCCCTGGCTGCTGGTCATTGCTGGC  
AGTCCTTGTCTTCCCTGACTAGTANCTACATCATTCTCATTTCTGCCTCTGTCTTCATA  
TGGCTGTCAATTTCACTGNGTGCTGTCTCTGGGTCTTCAAGTGGCCTTTTTATAAGGACA  
CTGGTCATTGGATGTAGGGCCTACCCCAATC

Sequence 755

CCCTTAGCGTGGTCGCGGCCGAGGTACATGTTGGAAGGGTTTTTAAATGTTTTGAACT  
GTGCACAGGCCAAACCCAACCTTTCAGGACATGGGTTTTCAACTTCTGGATGGTATGATGG  
GGTGATAGGGGTATAAAAGTATCCTGAGAAGTTGAAAGCAGTGTGTGAATGGGGTGTT  
CTTTTCTCCCCACAATCCTTTCCCATCTGCTGACAGTAGACTTAGCACCTCACAGATGCT  
TGGGCCTGGAATGAAGCCATGAAATGAAGCCCTCAGCCTTCTTGAGATCAGAGCCAT  
GGTCCTCACCCACAGCACATGGG

Sequence 756

CCCTTAGCGTGGTCGCGGCCGAGGTACACAAAATATTAATAGGATATTTATTTCTAAGC  
CAAATTTACAGAAAACAATTTACAACTTTTTTAAAGTATAAACATAGTGTATGCTTACT  
ATAAAAGGAAAAGTATAAACATTACTCAAGTATATATAGAAAATGAGTGGGCTGCTGAT  
CCCCCTCTATATTATCTATTGCTGTGTGACAGTATTACCACAAATACAGTAGCTGAAACA  
ACACATTTGTTTTCTCACAGTTTCTGTGGGTGAGGAGTTCAAGCATAGCTTGGTCCTCTG  
CAAGCTTACAATCCAAGGGTTG

Sequence 757

CCCTTAGCGTGGTCGCGGCCGAGGTACTTCTTTTTTTTTTTTTTTTTTAAATGAGTAG  
GAAGAGATGGTATCACAAACACAAAGCACAGGTTACTGTCTTTAAAAATTTGCGTTCTTC  
TATTCTCCAATGGAAGTGGGAACAAAGAGAAAAACCCCTGTGTGCTCTAGCACAAATATGGC  
CATTTGTGTGGATTTAATAAATGGGCATTTGGATTGTTGGGAAAATGTGATCAATCAGCA  
GGCTATAGAAACACAGTTTGATACGATGGTGAAAACCTGTCTACAATGATGTTTTTTCAG  
AAATGTTGGTGTGATTAGAACAAGTCAGCAATGATGATGACAAAATATTTACATAATGTT  
ATAGATGTGGCTTGCTAATGGAAATACCTATCTGAGGCTGTTTAGGAATACACAAATTGA  
GAACCGTTTAGTTCAAGTTTGCTTTAAACAGTGGTTTTCTGAACCCTTTTATGTTCCG  
NGACCTATGATTAGNAACCATCTTACCATTTTANAATCACTGCTTTAAAAAGTNGTNTCC  
GTACCTGCCCCGGC

Sequence 758

CCCTTAGCGTGGTCGCGGCCGAGGTACTTGTTTTAAACAATGTTGGAATGAGGAAAAT  
GAGCAATATCAACATTTTATCCTGAGGGACAGGGAGTAGAAAACAAGCCAGAGGCTGCTA  
GTTACATAGTTCAGTCTTAGGGATGAAGGATTTATGTCTCTCCTCCCTCAGGTACGCGG  
GGACTACACTGGTGTCTGACTTTTTTCTAGAGATTTCTCCCTGAAAAATACAAGGGCTG  
TTGGTGAGAGCAGACTTGAGGTGATAATAGTTGGCCTCTGGTCTACAAAGATTTTATAAC  
TCCTTGAAAGCTTC

Sequence 759

CCCTTTGAGCGGCCGCCCGGGCAGGTACTCCGATTGCCTCTCCCATGCTTCTCTGCTTT  
CCAAAGAAAAAACTGACCTTGTATAGATCCTGTGAGCTGATTGCAGTGCTCTTAACCTCT  
CCATTGTGAGTTGTTTCACTCTGAGGAGTTAGGTATAAACCCAGAGTGGTATTCTCTTTTC  
TGTTGTGTTTGGTTTTGCTTACATATTCAGGAGCTGCTCTTTACCCCAAGAACATCCGTA  
TATATGTTTTTTCTGTTTCTAGATTTAAAAATTTCCAGAAGCCTGGCCTCAAGATAGA  
TAATATTTTACTTTT

Sequence 760

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTAAAAAAAT  
ATCCTTNATNAGGNAAAAATTTTNNTTTNAATTAACNGGAAAGTTTTNATAAAAAAGGA  
TGTTAAATNGATTTNAATGCTNTTTTTGNATTNGTNNATANATTTTTTAAATTTTTAA  
NCGNGNAATTGGGTNNTTTAAATNGGGNGTTTTTTTTTAA

Sequence 761

Table 1

CCCTTAGCGTGGTCGCGGCCGAGGTACAGATATAAAAAGGCTACTATTCCAAGAACAAAA  
TCCTGGAAACAAATGTCTATCAAGAAAGCAAAGATAATCTAAACAGCAGCATATTCATAG  
GATGACAAACTATTCAACCATTATAAAGAAAACCGAATCAAAAGCACTGGCTTATTAGAC  
AAGAGTTTCCCAAACTATCATGCTAAACAGTAACAGCGAGCTTCCAAATTAATGTTGCC  
TTTTTTTTTTTTTCCAACTGAAAGGAGGGTGGGGAAAAACAAACGCATCATATGTAA  
GCACTGAGTCCAGCCT

Sequence 762

CCCTTCGCGCCGCCCGGGCAGGTACGCGGGTATGGTTTTACGAACAAATTTTAAAGGAAAA  
AAATTATCATGGTTCTAATCTTACATGTTAACATTTTCCTTGTTATGTAGGGATCAGACTT  
GTTATAACATAATCCACTTTATAATTCATGAAGAAGAAAGTTTTGTCTGATTCTGAGG  
TATGTAATATTTTCATTATTATTACCATATTGATATTCTCTATATAAAAAATTTACATAT  
TGAGTTTTTCAGGTAAAGCTGTTGTGAACATTATTTTTTGTCTAGTGTAGTTAATTTAA  
AAAAAAAAAACCACTG

Sequence 763

CCCTTAGCGTGGTCGCGGCCGAGGTACGCCTAAGGGANGNNNGAACTCATNAAAGAGAC  
AAAANGTGCNTTTTTGNTTNNAAAGGCATGCTGTGGTGGTTGGGCGCAATAAAATAGTTGG  
GGCCCCCGANTGCCANTGACTTGCTTTNTNGTNGGNAACNAAATGGCCCATCANGTTGGA  
CNCACCTGNCCANTTCACAAAGACCTTGNCCCCATTCTNTGGGAATGNAAGGGAGNGTTAA  
AAATAAAAAAGTGTGACCACTCCCTTGGATGGGTTTAGCCAAACCTTGGGNTCCANGCC  
CCTGGAAAAATTGGTTTTAAAGGGGGGGNAGNTNGGGATCCAAACCTTGGGGGGCCAAA  
ATAAGATACAATCCGTANCTTGTNGGGAANTTCAAATTTTAATTGTTCCCCCAAGNA  
TTNGAATTANNAAAAAAACCCCAAATTTGGGGGAAGGNAAAAAANGT

Sequence 764

CGCCAGTGTGATGGGATATCTGCAGAAATTCGCCCTTAGCGGGCCCGCCCGGGCAGGTAC  
CGCGGGATTCAATTTGAGTGGGAATCTCAAAGCAGTTGAGTAGGCAAAAAAANGAACCTN  
TTCATTAAGGGATTAATAATGTATAAGGCCAGCACCGTGTAACCTTCGACTTCAAAGA  
ATTTTCTGGAAANCCCATAAATGGTAGGTNATGGGTTTTCAATTTGGTCCGTTCCGCCA  
AGGGGGGGTAAAGTTNGAATCCCTTGGGGCNAAGTTCCAACCCCANATAAGGCCTTCCT  
NAACNTTTTNGTTTTNNAACCTTTTTTTTTTAANGNCCTTTTTTTTGAATCCCAAAAA  
AAAAATTCNTTTTAACCTTTTTTTTTAAATAAAGGGGGAAGGCCAAGTTTTTTTTTCAAAA  
ACTTCCCTTAAAAAAATGGNTTNGGAAAATTAANTAAATTTAAGGTTCCANGGNTTT  
AAAAAATTTTCCACCCAAGGCCCTTACCCNCCAANGGGGNAAAAATTAACCAAGGGGGA  
ACCTTTTTTTNGAA

Sequence 765

CCCTTAGCGTGGTCGCGGCCGAGGTACAGAAGCAATGTTTTTTGAAAGTTTTCTATCTGT  
GGNTTGTGAAATCCACAGATGCAGAACTCATGGAAACAGTGCCCACTGTATGTCACAATT  
TCAGAAATCAGTATTTATACAATCANGCTAATAGCCTAATTTGTTGAGCACAAGAAAA  
ATACACTGAACCAATTCTGATTATTGCANGAGAAATGATTGGCAGGATATTGGGAAATAA  
GAATGAAGGGCGGANAGAATTTACATGGATTCAATATACTCTCCGTCAGNGAATTTTTG  
TT

Sequence 766

CCCTTAGCGTGGTCGCGGCCGAGGTACAGAAGCAATGTTTTTTGAAAGTTTTCTATCTGT  
GGTTTGTGTAATCCACAGATGCAGAACTCATGGAAACAGTGCCCACTGTATGTCACAATT  
TCAGAAATCAGTATTTATACAATCAGCTAATAGCCTAATTTGTTGAGCACAGAAAAAT  
ACACTGAACCAATTCTGATTATTGCAGAGAAATGATTGGGCAGGATATTGGGAAATAGAA  
TGAAGGGCGGAAANAATTTACATGGATTGAGTATACTCTCCGTCAGGAATTTTGTCCCT  
TTGATCTTTTTGTGTTTAAATGCCTTAATTTATTGGGGCCCTCTCATANGTTTGGGGG

Sequence 767

CCCTTAGCGTGGTCGCGGCCGAGGTACAATCAAAGGAGTCTAATGGAACCAAGTAGCAAT  
GTTCCCGAAAAACAAACAAAAAACCCCAACATTTTGCTGTTTCTTTCCCTCTGTA  
TTTGCTAACTTTATCATGACTTTATTCTTAAAGCCTATCACTGGTCTGCTTTTATTAATA  
GATTAGTGGAAATTTTACCTGGCCTATTAGCACCTTATAAGAAATAGATTAAGAGTAG  
GAAATATATAGATGAAGATGTACTGTATAGAAGTTGTGTAAATCAGTATGAAAGTTCAA  
TGTTGCTGTTCTTGCTCAGTGGATTTTAAAGAAATTGAGTAGTTCCTATGTGGATTTTTT  
TTTTTCTTTTCTAACTG

Sequence 768



Table 1

CCCTTTCGAGCGGCCGCCCGGGCAGGTACATATACATTATGTAATNNANAAGCGTGCATG  
GGGATGAAAAAAAAATTTTNNNTNTATAATCNNGNTACAATATATACAATAAACACCTA  
AAACGCAGAGGCTTGCCCTGTTTNTCCACAAATANGTTAAATACCCAAATTAGTAATTA  
ATGGATTGGTGGTTATGGTAGGAACACCAAGACNAAAAAGCCAGGCCGGGACCGTNATTT  
TAATTNNGGGCCAGTACCACCACNATATAAAGGCCACCAACCAAAAAAGTCCANANANG  
CCAANAAANAAGNCAACCGCCCAAGTTNAAATNGTTTGTGGGAATTGNCCAGTTA  
NTTCCAAAANGGAATTTTGTNCCCANTTANTTAAGGAACCAATTTAAATAATTCCCC  
AGGTTTANGGAACNACCTTNGTTNAAATTAAGGTTTTTTTTTTGGGGTTNACCCCTTTC  
GGGGGCNCCGCCNGNAACCCCANNCCTGCCNTTAAAGGGGNGGCCCGAAAAAT

Sequence 769

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTATTTTTTTACTAAGGTTTTGTTTTGGAGA  
CTTGTGTTGAAATAAAGTGATCCTCATTGAGGATTTAGAAACAAAAGTTATACTCCACATG  
CTAGGGATTAGGAAGGCTAATGTGAAGTATGATCAAAAGTATGAATTATGGAATGCCCTTAG  
AATAATCAACTTTTAGGTAATTTGATACTGCTATAATTTCAAGCTTAGAGAAAAGTTGTA  
AGAATGGCATAAGGAACCTCTATATATCC' TTATCTAGATTCACTAAATGTTCAATTTGT  
GCCATTTGTGTTATTCTTTGTCTCATCTAGCCCAGTCAGCCTAACACCACCCAGGGGAT  
AAACCAGTAGTCTGATA

Sequence 770

GATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTACCTCTCATTTGTCA  
CTTTTCAACACTTCCTGGCAGGCAGGCAGCATAACTGGTCTGCTGGGTGATCCAGACCA  
CACTCTGCAACTCTTCTTCTGAGCCAGGCTCCCTACTGTCTTTTCATTTATGTCAAGG  
CAGGGGAAGACCTCAAAGGGCTCTTGTCATCCAGTCTCACTTCCCAAGAGAGGCACGAGG  
CCCTCCAGGATGTGGGACAGGAACCTTGGGGCAAGCCCGGGCTGTCCAGAACCTCACC  
AGGAGGGCTAAATAGTAGAAAGGAAAAGTCTTATTGGTGATATGTTTGCAAACCTGGGAAA  
AAGATAGCCTCCAGTGTGGAGCAAAGATGCTCCTTCTTCAAAGAGGGCAAGGGCAGCTTG  
GATTTTGTGCCTTACANGGTCNGTATTATATAATAGAGTCATGCATATTCANTAGGTTTG  
GGGGAAAAGCTATATATATTTATGAAGGGGAGCCAACTACATGGGCAATGGATAAACATA  
CATGTAACACATCCCATGTTCACTTTAGGGGCA

Sequence 771

GGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACAAATAAAGTATTCCA  
AGGGNNGNAGAATNGAAAANGANGNCTNNCANCTTGNNTNCCNTTTGGGAAATTGGGATAT  
CCTTTGGGGAAATGTAGTAATCAGTATATTTCTGGGNAAAACATTAGTTAGAAGAATTGAA  
NTAAATAAAATTTCCATTGAATTTGGAATATGTTGTCCATTCTCCCTGTAACTAATGCT  
ATCAANGATAAAGTANGAAAATACCACATTTTCAGNAAACAAGCTTGGAGGTAGNACAAGGT  
CCTTCATTAGNGCCNTAGCCTTGGNAAACCCTTAATAANCCTATNTAAATAAAATTGAAA  
ANTTTTTAAATTTATNACTCCTGG

Sequence 772

TGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACCACCAATAATGAGGCCACATT  
GTGTATGCTAAAAAAAAGTGNTTTTNNNTTNTTCTTGGGCCTACAAGAACATGTTTCTG  
TCCGCTAAGGAGAAANTNAAGAAAAACAATGGCCCCCTTNCCTTCCCNATNAANCCCAAA  
ANCTTAAACNTCACAGGGGANGTTGNAATTTTAAGGAANTCCACCCCTTTNTNGGGGN  
NNCANTTTTTTTCCCCCCCCAAANAACCCAACNCCCATTACCTCCTTNGTTAAGAAA  
TTTTCCNTTGAATTNAATNGCCNACCTTCTTTTAAANAAGGNANAAGCCCTNNACCNA  
AGGCTTTCTTTTCCCCCCTAATTTNCCCCCTTNAATTCNTTGGAAAAANGGCCNAAC  
GGGGGAAACCCCCCACCCTTTGGGCCNTTTTTTGGNGGGTTCCCAAGGGGGAAAAAACCC  
AAGGGGCCNATTTANCCNAAAACCAATTCACANGGANATTGGTTTGGNAATTTTAATTA  
AAAAAATTNNGGGGCCCNACCCATAATTTTCTTTAAAAAAAANGGTAAAA

Sequence 773

CCCTTAGCGTGGTCGCGGCCGAGGTACTATCATCCCCCAAGGCCTTTTACAGTCTGAAAT  
ATCAAAATTGAAAGCAAAAATAGGATGACCAAAGGACTACTATTTNACTCTCTTTTCAGN  
AACNTCNTACAATATGTATGAAACCTAAAAATATCCACTNTATGGGATCATCANNGGGGG  
GAANNTAAANTGTTGCCNTGTTTTNGNAAANGGGGCATTGANGATGTATTTGGGATGTN  
CNCANGGNCCTGGGGCANTTTTATNTCAAGGATGNAAGGGGNTNNCATTAAACCTGAACCA  
AGTGGANTGACANGNGTCTTCNCNTTATAAATACCAANGGGGCCGNGTTNTGGCNAACCC  
CANGCCACCCCAATTGGAACCTTATGGGGGGGCCCTTNGGCCNTTTTTTANAAAAANAACCA  
AAAAATTTTTTTCTTAAAGGGGGGAACCTTTTACCCGGNCCCTTCCTTNTTTTGGGGGG

Table 1

## Sequence 774

CCCTTTTCGAGCGGCCGCGGGCAGGTACATATACATTATGTAATTAAGCGTGCATG  
TGTATGTATTAATAATAATGGTATATAAAACAAATTACAATTATATACCAATAAAAC  
CACNCTAAACGCCANNAGGGCATGCTTGTATTATCCCACCATATTAGNTAATAACCCAA  
TAGATAATTAANTGGAATTGGGTG

## Sequence 775

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTGGAGAGGGGTCATC  
CTCCAATCATTAACTACTTCTAATCTTCACTGCTACACAGAAGTTTCCAATATTTAGCAA  
CAGATGGCTTTGCTTTTACCTTATAGATGAGGCCAAAGCACCAGGTAGGTGGAAGGTTCT  
TGTATCGGTTTGAACCCCNACAGCGCGCCAAC

## Sequence 776

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTGGNCTGCC  
GTGGAGAGGATGGATGGGAGGGGGAAGAACGAGAGCTTTGTTAGAGGCTGCTGTANTAA  
TCCAGGTAAGGCTTTAATCATGTCCTGAACAATGATCAGCAATGGCAATGGANATGAC  
AGAACANAATTAANAAGGAATAAAAAAGGCTTCTGACTACTTGGATGTGGGTGANG

## Sequence 777

CCCTTAGCGTGGTCGCGGCCGAGGTACTGCAAGCCAAATGCAATGAACAAACCAAGGTTA  
TTGATAATTTTACATCACAGCTCAAGGCTACTGAAGAAAAGCTCTTTGGATCTTGNATGC  
ACTTCGGGAAAGCCAAAGTTTTCCGTAAGGGTAAATCGGNAAANTGAAAGNAAACCTTT  
AAGACCAGNCAGCTTTGAAGGTCAGCCTTGAGTAANACAGNAATTTAATACCAATTTAA  
GAAGGAATTTTGAANAAAANGAAAATGGCCTTGAAANAGGTTAGGCCAAAGGGGCTTAGG  
GTTAAGTTCNCTTTAACCCCAAGGAAAGGAAGGCCTTNCCCATGGGGGGGGGAAGNAAAG  
NANGNCTTNAAAAAGGCCCTTTTAACCTTAAACCCCTTTTTTCAAGGGGGGAAAAAAA  
AATTNTTGGAAAGGTTNGNAAAGGTTCCANGGTTCCANAAGGTTNGGAAAAAAGTAA  
AGGAACCTTTTTTGGGGGATAAAAAAAGGGAAACCTTTCCAAGTANTTTTTTTGGG  
AAAAAAGG

## Sequence 778

CCCTTAGCGTGGTCGCGGCCGAGGTACTGGTTATCAGGATAATACTAGCTTCACAGAAGA  
AGCTGGGAAGTATTCCTCCTCTTCTATTTTTTGGGAGGACTATGTGAAGAAGTGGTNT  
TAATAAAAACCTCCTTATTAAGGAAATTTTTAACATACCAAAAAATAGTAAGAATAGTAT  
CATGAGTTCCTGTGTTGTATTCCCGCCTAAGTCAATAATTATCAATAGTCCACCATTTCT  
TATTTTACTTATACTTCCCCTCCCCAACACCTTACTCTTTTGGCGGGGGCTGAAATTATT  
TTAAAGTAAATCCCAAGACATATCATTACCTTTAAATACTTCAAATGTATATCTTCTAA  
CAGGATAAAGGACTTTTTTTT

## Sequence 779

CCCTTAGCGTGGTCGCGGCCGAGGTACTACGAAGCTGCAGATCATTACGCTGATATGAAT  
GACTGCTTGAAAGAACAATGACTCTGGCAGAGCCACTGCTTTTACCCAGGAAAGCAGTT  
TTTACAGAAATGGCTTTGATTTATACTTTGCACACCATTGAGAGAATAAAAAAGAAATCT  
AAAAGTTAGTCTTAGAGCATACAAACATTCTATATACTATTTTCACTCACTTTATGTGATA  
ATGATATATAATTTATATATACTGAAATATTTTCAGGATCCACTTACTGTGCTTAAACC  
CGAAAGTGAATGATTAAAGAGGCAATGGAATTATCTAATGTATCTTTTATAAATTAAGAA  
ATCAA

## Sequence 780

CCCTTTTCGAGCGGCCGCGGGCAGGTACAGACAGTGTGATGGATGATGCTGCTGGTTGT  
AAATTTTCATCGTGTGTGTCTAATTTTTTTTCTGTATGAATGGGGTAAAAACAAACANN  
AACTTTTTTTTAGGAAGATTGTAATTTTGCNTGTCATGTTTTTNGTAGGNAATGAGGGGN  
ACTCGTTTGNAGTCTTACCTAACNCATCCCTGNGNAGTTTNTGAAGTTTGGAAAGNCC  
ATTGAAANNATTGTGTTGCCCCCAATGNCCCTTGACCNGCCTTNACAGTCCGNCNCTT  
NNGGATTCTTGCAACCGTTGTC

## Sequence 781

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTGGCGGATGAG  
TCTTTTAATAGAAAAACACACGTGCAACAGTATCAANACACATTTTTTNGCAATCCTGAC  
AGCAGCTGAACCTCAGTTCTTACCTTGGGGGGTGGCCTGTACATATCAAAATCTATCAA  
ATTGGACCCCTCAACTATGCATTTTCTGNGTGCAAGTTATATCTCAATTACAAACAAACA  
AAAAACAAAAACCTATGGTTAACCCAAAAACCTAAACTATNACCAAGAAATATCAATTGG  
GGTTATGGCATGACCATCTCCCAAGAAAATAAATGCTTGACAGATTCTGAGCGGGA

Table 1

## Sequence 782

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACAAATAAATGAGTTTGCAGTGAATTGGGCCTT  
CAAATTACCTCAAGTGACAGATAGTAAGAAAAGCTTNTTTCAGCAGGTGGAGGTCAGTGA  
ATCCCCCTACTATGCACTTATCAAGATTTTACTTACTTTAATTTACTGGAAATTGATTTTT  
TAAAAAATGACTACACTGTAACAAGGGAAGGGATCTGGGTTTTTTTGTGTTTTATTCTT  
GTTTTTTTTAAGTAGTTCAAATTCCTGAAACTGTGATTTAAAAATTTTTTACAGTCAAGCA  
TTCTGATTTTGAACATAACTCCCTTCCCTTTCTGTGTAACAAAGGTCTCTCTGTTATCTC  
TTAAATTT

## Sequence 783

CCCTTAGCGTGGTCGCGGCCGAGGTACTCTTCACTGTCTTTGCCATGAACTTTATAACA  
TGGCTCTCCAGGTGTTGAATCTGGTGCCCTGTCAACCCTGTGCTCAGGGAACACATGGCGG  
CAATCAGCATGTGAGGCGCAGAGGGAGGGCAAGCTCCCTTGTGATATTTGAGGTATCAG  
CTGACTCAAGTCTCTCTCCCTTCTCTCCTTATTCTCATGCTACCTNTCCCAACCATTGTC  
TTAACTTCCCTGGCCAGGATGCCTGCCATATTAATGGAGAGGAGGCAGTTTCTAAATGG  
CTTGACTTTTGGTTGAAGTCTCAACTCAGGAAGCTCTGAAATTAATCCACCC

## Sequence 784

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTACTCGATTGTCAACGTCAAGGAGTCGCAGG  
TCGCCTGGTTCTAGGAATAATGGGGGAAGTATGTAGGAAGTTGAAGATTAGTCCGCCGTA  
TTTCGGTGTACCCCTGGGAGGTGCCAGTCATTGAATAGATAAGGCTGTGCCTACAGGACT  
TCTCTTTAGTCANGGCATGCTTTATTAGTGAGGAGAAAAACAATTCTTAGAAGTCTTAA  
TAT

## Sequence 785

CCCTTAGCGTGGTCGCGGCCGAGGTACAAGAGGATATGTGTGCATTACATGCAACCACTA  
CACCATTTAATATCTGGGGTGTGAGTATCCGTGGGTTTTTGGNATCCGTGGGGGTCTG  
AACCAATTTCTCCTGGATACTGAGGGATGACTGGATTACTGTGTGTTTGTGTGCTTGTTT  
TTAAGCTTCAAAGATTATGTGATCTAGGAGTTGTTAGATTTTATTATTGGTCTTAAAG  
ATAAGCTTANATGTTGTTACTTTTTTGGAGTTTTTAGTTTACAGTGATTTTCATGAATCGG  
GCAGCTTCANACCACAGGAGACATNAAGCAGGTTTNAATTTTCAANGAAAGGCNTTTACA  
AGGCCAAAAATATTTTGATTGGTTTAGA

## Sequence 786

TGAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTAAACTAAACTGAGCAGTTTAAA  
ACATTCATTTAAAGGGATATCTAATGTGTTTATTATTAAACATAAATAATGTTTTTATGAA  
AAATGTAACCTTNGTTTTCCAAAACAAAAATGTTTAGGGCAAGAGTAACATTTATTACA  
TTATTGCATCTCAGTTGAAAAATAAATGGCAACAAAAATTTCTTATATCTGCTTCTGCAGT  
TAATCTGNTCATTTTGTGTTGTTGAANTATATTGAAGGAAATCTGTTCTCTCCACACAGT  
TTGTGTAGTGGGAAAAAGGGGGGAC

## Sequence 787

CCCTTTGAGCGGCCGCCCGGGCAGGTACGCGGGATTCTGTTAAGCAGGCATTGCTTTG  
CCCTGGAGCAGCTATTTTAAGCCATCTCANATTCTGTCTAAAGGGGTTTTTTTGGGAAGA  
CGTTTTTCTTTATCGCCCTGAGAAAGGATCTACCCCCAGAGGGAGNAATCTGTAGNACAT  
TCTTTGCCTACTTNTTACTTTTATTAGGCTNTTCTTCCCTNCAATTTCAATTTTCTGT  
ATTACCACCTTTTTTCCCTTTTTTTTGGGGGGGAAGA

## Sequence 788

CCCTTAGCGTGGTCGCGGCCGAGGTACCTGCAGGCCTCCTACACCTACCTCTCTCTGGGC  
TTNTATTTTCGACCGCATGATGTTGGCATCTGGAAGGCGGGAGCCACTTCTTCCGTGAA  
ACTTGGCCGTAGGGAGTAAGTCGCCGAGGGTCTNAGNCGTTCTTTNCTTGAAGGATGC  
ANAANACCCATGGCGTTGNGCGGACCGCGCNTCTTCTTCCATNGGAACATTCAAAGGNN  
AGNCNCAAGTTTTGNATAGTANTGTAANTTTGGGNGGGTTAAAAAACCTNCCCAANGNAC  
CGGCCCTATTGNAAAAAAGNCCTTGNCCTCAANTGNGGCCCCCTTGGGGTAAGTNAAAA  
AAAAAAGTCCCTTGTAANCCCCAAGGGGCCCCCTTTTTTTGGGGGAATTTCC

## Sequence 789

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTTAATTTCTTTATAATTTGTTTCAGCTATTT  
AAAAAGATAATCCACAATCTCCTACCGCCATTAGAGCACAGGAAAAAAAATTCAAAAAT  
AAAGGAAAAACATGGCTCATATATCTACAGAAAGTCACAAAAATACTATAGGGCACATATA  
CCCAGGCCTCAGCGGTGGGAAGAAACATACAACCACCGGGCAAAATGTTTGAACACTGA  
AGACGGGAATTTTTTAGGGCC

Table 1

## Sequence 790

CCCTTAGCGTGGTCCGNNGCCCGAGGTACTCAAGTCGCCCTTATGGAGCCCTTGATTTCAG  
GCTTCAATAGTGTGGACAGTGGTGATAAGAGATGGTCAGGGAATGAAGTAAGTGTTCCTT  
ATGTTCCGTGTGTTATAACACCTGATTAAGAGAAAACAGAAATGATGAAAATGAAAAGCCG  
TCTTAACTGGATTCAAGTTTCTCACTACATAAAATACAGAAAAGTCAAGGTGGAGGCAAG  
ATTCCCACCCTCTCCAGCAGAATTGGCATTCTGCGTCCTTACCGGCTTTCTGTCACGTGG  
ATTTCCGCCTGTTTCCTCATTTGCCCTATGGAAATAGTTTCATATCATAGAAAGGCAACA  
GGAGCTGAGCCAGTTTGAACTGAACCTACAATCTGAGGTGGGGGTAATCTCGAGCAGA  
AGTGCTAGATGGTGAAAAACAAGTAGGACTTTCGGCTGATGGGTAGAAAACAAGGACCTT  
NGTAAAGAATATTCATGTGCTCAAAAAGGAATAACTTCCTGGCTAATTCTTGCCTTTTTT  
TCGTTTTTAAATTAATTGGATATTATGTTTTCTGCTCTTAAAAATTACTNNGTNCACAG  
AAGCTACCAAAAAAAAAAAAAAAAAAAAA

## Sequence 791

GATATCTGCAGAAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTAATCTTTCTCTCT  
TTCCTAGACCGATTCTAGTTTGTTCCTTCCCTTTCTCGGAAACCCCAAGTTTGTGGAT  
GCTGCAGACACTCTGTGCCCCCTGCATGCTGGGTGCCTGGCCAGCTGCCAGGGCATAAA  
GACAGACGATGTGGCCTTTGTCTTAAGAAATGAGGTTTGAAAGCCTCAGTCTTCCAT  
GTTAGGTGATTNCTTGCAGCTCTTGGTATCTGCAGAATTAGTGTGAATGCTTAAAAATA  
TTAACAGCTTTATATCATCAAAGTTTAAACAGTACCTGCCCGGGGCGGNCCTCGAAAG  
GG

## Sequence 792

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTGA  
GCTGAAGGCCACAGTAGCTAGCTAAAGGCCACACCACTGAACACTAAAACCTTAACCTTTA  
CTGGCTACTTTGTANATAACATTCACAGCTCACCATGAATGCAGCTGCAGTCAACTAACA  
NATATGAAGTTACCACTGTATTACATGGTTATATTAGGGACTGCTTNTACCTACTGAGG  
CTGGGGAGGAATGTAACAGCACAAGCCATAATGAAGTTTATATACAGGCTTAATATAAAA  
NAAAACCTAGAATGAACCAACACAATTAT

## Sequence 793

TTTTTGCAGAAATTCGCCCTTTTCGAGCGGCCCGCCCGGGCAGGTACCATGCAGGGATAGCTG  
AGTCTTCATCCTCCTCAGCCCCATCTGTTTCAGTGCAGTGAACACCACTGCTCTCTTCC  
TCTCTGGCTCCCATGGCAGCCATGGTCTGTTGCAGAGAGAAGAGGATTGCCTGTTCCCTC  
TTAAGGGAACCTCCGTTTTGCTTTCTGGAACCA

## Sequence 794

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACGAACCTTAAATTTATGATGAATATCTTTGAT  
AATGAGAAATCCTGAGAGATTTTACTTTCAATTTTATTTAATTTGAAAGAGCATATGAC  
ATCTGGAATATTTTTAACATATAGCCATACTGTTTATTTAAATTTGTAATAATAGAAATA  
GAGTAATTTCTACTGTTGGATTTTAAATTTTAAATCATATTAAGTTTAACTGGATTTTAT  
TTAGGACTAAAAATTTTAGGACTAAATAAAATTTTATTAATTTAATTTAGGACTTTTGGGA  
AAAGATATTTCAGAAGTTTCAGTGCATATCAAAAAAGCGAACAACAGAGGCTTCATCTTT  
GAAAACCTTCATTGGCTAAAAGTGTCTTCTGTAATACTGATAGTGAAGAACTGTTTTTAC  
ATCCCGAGATGTGTTTGATG

## Sequence 795

CCCTTCGAGCGGCCCGCCCGGGCAGGTACCCTAGGTGATCTTTGGCTTCCTCAAGTTTTG  
CACCCTCAGAAATCATTTATATACCACCTTTGGCAAACATGCCAGACCTGCAGTAGACT  
GAAGGAAGCTCTCCCAAGCTCTAAATTGATTAATTTATTAGTTCCTAGAAGAAAGAGATT  
ACATGTTTATCTTTTTGTTACAGAAGAACTTTGAATAGCAGTTGAAAATTTGGCAGGGT  
GGACCACCTAACTTGACAGTGTATTATTGTGTCTGTTTTGAAGGAATAAAATGGAATTAT  
TTATAAAGTTTTCATTTGTATTAGAGA

## Sequence 796

CCCTTAGCGTGGTCGCGGCCGAGGTACACTATCTGACCTAATCCTCAACACAACTAAGG  
CAGGAGACACAGGGCTGCAAGGACATTTGCTGCCATCCAATTTGTGCCAGCCTGTTTTAT  
CAATCTGAACCTATATTATTTTAAAGACCTCACGGCATCACTGAAAGATGAGTATTATTA  
GTTGGAATTTTAGGGATGAGAAAACAGCCCTCAGGGAGAATAACTGACTTGCCCCGGCT  
CCAACAGTAAGTGGCCCTGCTGGGATTTGAACCCAGGTGTGTCTGACCCCGAAGCCTGAT  
CTGACCTCTGACAGTCGTGATAAAAAAT

## Sequence 797

Table 1

CCCTTGGCCGCCCGGGCAGGTACCGAAAAATGATTTTGTTATATATATTTACCACAATAA  
AAAAGTTTTAAATTTATTATAGGTGACACTGTTTGCTCACTGTAGGTCAGGTATTTTTTG  
GTTTTTTTTCTCTTTATTTATTTTTGACCAATGGATTACGTCACCAGGTGATTTTTT  
AAACAGCTTTATTGAGATATATATCACGTGCCATAAAATTCACCCATTTAAAGCACACAG  
TTAAATGTTTTTAGTATAGAGTTCTGCACCTCTTATGACAATAAATGTTAGAATATTT  
CATCACTCAAAAAGAAACCAGTATCCATTAGCA

Sequence 798

CCCTTTCGAGCGGCCGCCCGGGCAGGTACAATTTTTATGTTTACAGCTGTAACCCCTGAG  
TTATCAAGAGATGGACATTAGATATGATTTATTCCTATTTAAGATAATAGGACATTGCT  
TGATTACATTTTCAGAAGATATTTATCCAAAGAAATTTTTTTTTTAATCTAAAGGAAAG  
GTTTTGATTCTTATGAGAAAAGAAATGAGATTTCTTTAACTGGAAATTTGATTTATGTCCT  
ACAGTCCATTGTGTAGTGATGTTGGATCAATCAGGTATCNCCTAGGGTGTCTGNAGAAGTA  
TCTATATATTGCTTTTTAAGTTCTTAT

Sequence 799

CCCTTTCGAGCGGCCGCCCGGGCAGGTACCATGTAGCTCTACTTTTCCATATACAGAGTT  
GTTTCCTAGCTTTCTGCTAATCTAACTGGATTCTCTTCCCCATTTCTCATTACTAGA  
TTATAATGCACATCACATAATAAAGCTTAAAAATGGGCTTTCACAGTTACTGTTTTCTT  
TTAAATAATTGTGAGAGAGCTTTTGCATCATTTATTATCTAATCATGATTCAAGTGACT  
AGGCTGTAGCACCCCAAGAACCCTTGCTTAAACAGTTTATTTTACCCAATAATACTACTT  
TGCTTCTTACTTAAAAATGTCCCGTGCTTAACCCTTTTGCTCTTTATTTTGATTTAAGC  
ACTTGACC

Sequence 800

CCCTTAGCGTGGTCGCGGCCGAGGTACTNTCTATTTTTTAACAAGGCTCCCTCAAGATATT  
AATGTGACAACTTACATAGCCAGCTGTAAGATAATTCTTCAAATGCGCAAGTAACCTA  
ACAGATTTGTGCATGTCAGCCAGTAATTTCAACATACATTATAAATATGGCCAATTTTCC  
CAAATCTAAATGAATGGAGATAAAATGCTATATAATAAATATGTTAGAGCACCTTTCTT  
GAGAACTTNTAAAAGGAAAAAATAAAGACATAATTATACTCACACCACCAAGTAAAAAC  
TCTGGTCACCTGTTTTGGGTTGTGGGAATGCCCCAGCAGCCGAGAGACCTATATT

Sequence 801

GATGGATATCTGCANAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTGATTATTTCTCC  
TGCTTAGGGAGAAGCGGAAGGACCCTTGGAAGTGTGAGTTTTGCATTCCAACTTGCTA  
ATTCAACATAGATCCTAATTCCTTAAATGCTTGTAATTAGAAATTCCTGTGAAGTGTATT  
GGTTTTGTCAAGCAATCTGTTTGGGGAAGTTGAGCAACTGGGGCACTGCTGGCTAGGGT  
GAAGTTTATTTAATTTGGTTTTATGACATTCTTCATCTTGGAAATGGGGTTTTCAAATAT  
TGCTTTCCCAAGCATCATTACTTATTTGCTGGTTTTTA

Sequence 802

CCCTTTGAGCGGCCGCCCGGGCAGGTACGATAGGCATGCAATTAAGAAGACCTGCCTCAA  
ACATTTTCTGTGTGACCTGAGGCANGTCCTTTTATAGCTATAAACTAGGGACAATTTTG  
CTGTCAATTTTTCTACAAATGTCACAAAGAACAATTTGAGCCTGTCGCTGTGAAAGAAC  
TTAGCAAATGAAAGCATCCTAGGGAGTGTTTTAGATATCGATTTTTTATCCAATTAAC  
TTTCAAATGAGTTTATTTGCTCACTGAAACTGAAGTACCTCNGGCGGGACCACNCTAAG  
GG

Sequence 803

CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGGTTTCAGCTGTCTCTTACTTTTAAAC  
CAGTGAAATTGACCTGCCCGTGAAGAGGCGGGCATGACACAGCAAGACNAGAAGACCCTA  
TGGAGCTTTAATTTATTAATGCAAACAGTACGCTTGGGAGTCCCTCAGCAGGGGGATCATT  
CACAGTGAGGACAGACACAGGTGAACCTATGGGTCTGTGGAACAAAAGTTATCCTACACCT  
GAAAGAAGACCANACTGAGTNCTNNGCCGNGACCACGCTAAGGGCGAATTCATCACAC  
TTGGCGGC

Sequence 804

CCCTTAGCGTGGTCGCGGCCCGAGGTACCTTGACAGTGCCTTTTAAATTCATTTTGCTG  
GACAGTTGGCAGGCTTTTCACTTGAGAGGCTTATATCTTAACGATTTAGAATGGAGAGT  
TTGGCTCAAGCTCCCTGTGTGGTCTGTGCTTTCTATACTTTTATTTGTTGATTCCAG  
AGTCTGGAGGCTTCTTTTTTAAAAATTGCTAGGCTCCTGCCAAATGTTATAATTTGGGG  
ATGTGAGTTCACTAAGAAATCAACTGACAAGAGGCAGATTAATAGGAGAAATGACATCGA  
AATTTATTAGCATGCAGGGGGAAAAAATTGATTACCAAATATCCAGTAGGGTAGAGATG

Table 1

CTTATATACCCACCTCTTAAGAGAGAGGGAAAGTGGATGATTTTAGGGGAATAGTAAAT  
ACTTTTTATGGGAACCTCACTGGGCTTGAAGAATATAACAAAGGCCTGGGACAAAGTCTGT  
TGGGCCACCCAGAACAGACAGTGGTTTATGACAAAAGTCTGTTGAGAATGTATTGAACA  
GACTTCAATCTTTCTTCTTGAATATGATTCAAGTTNAAGGAAACTAGGGAAGGGACTA  
GAGGGAAATNGT

## Sequence 805

CCCTTCGAGCGGCCGCCGGGCAGGTCCGGGCAGGTACTATTACTAGGTTCAATTGTTTCC  
AGAGGGGTGAAACGGGGCTTTGGAGAGGTTAAATAACTTGCCCAGGGTCACACAGCTATT  
AAGTGGTAAAGCTGGGATTTACATGAGCCCAGACAAAGAACCAGCTAAGCTATTCTC  
TCTTGTAAATACCTCCAACATAGGAGGCAAGAAGTGAGGTATTATACAGGTTGAGGAGATA  
AAGGGGAGAGAGGCCTGCAGTGCTAACAGGAGGAGCTGGGATTCATCCTGGCTTGTCTCG  
ATAGGTCAGTTAGTCTTAGAGATACCCATGAGGTCACCTACTCAAAATGGGGCTCAGAGT  
AGCCTTGTCCCATCTTGTCCAGTGGGCGCAGCTACAGTCTTCTGGCCTGGAGTGACTG  
GAGGCTGTCCCCACGTCCCACTTCAGTGAGGCATTTCATGTGCACCCAAACACACTTTCTAG  
CTTTATTTGCCTGGAGGGGAAGATTCTCCAGAACCTTGTTAAGATGCACAGTGTGGTCTT  
CGGACTGGCAGTGTGGCCTCGGCAGTCCCTGGG

## Sequence 806

CCCTTAGCGTGGTGC GCGGCCGAGGTACACATATATACACACATATATAGATATATACACC  
CACATATATATTTGCTGACATTTTAATGTGAAGTTTGTCTGGGATATAAAATGGAATG  
TATGACATCCTCAAATGTCTGAATACTGTTCACTCCTATGTTTTACATTTAATTTCCAA  
AGCAAAACATTTTCAGTTGAGGATTTTATTAGAAAATAAATAATCATTTAGCCATATCTAG  
AAACCAGAATAAACAATGCCATAAAGCCTATAGGAAAATGCAGGTCAGATTCAATAATAT  
TCATGTGTTTACTTTTCAGTACAGGGAGGAATTTGAAGTAGATAGAAACCGACCTGGATTA  
CTCCGGTCTGAACTCAGATCACGTAGGGACTTTAATCGTTGAACAAACGAACCTTTAATA  
GCGGCTGCACCATCGGGATGTCCTGATCCAACATCGAGGGTCGTAAACCCTATTGGT

## Sequence 807

CCCTTTTCGAGCGGCCGCCGGGCAAATTTCCCATGATGTCAGACCACTGGAGTTTCCAGGG  
GCAACACCCCATAAACCGTCCCGCTGCAGAAGAGCATCANANGTTTCAGAAGAATGCAAAGG  
ATCTCAGTGGGAACGCGGACAGGAGAGCCCAAACCAACACATGCTAGGGCTCTCTAGGC  
CCTTTTCAGGCTAGATCTTGACGAGAGAAGATTAAGATCTTTCTGAGGTTGGTGCACTG  
AGGAAACGAAAATTTTCGGCCTCTGCTGTCTCAGATCTATGAAAGGAAAGAACTGTGAACCTG  
TCCCCTTTTGTCTTTGACTTAAACAAAAGAAAATCACTGGAACAAAGTCTTAAAGT  
AATAACAGAAATGTCAGAAAAGTTGAACATCTTATGGGCACATGCGGTGAGTTACGCTAA  
CTTAGCATCCACTGAGATTAGCCCGCATAGGATTCTTCCATGTTAGAGCTAAAAGGA

## Sequence 808

CCCTTAGCGTGGTGC GCGGCCGAGGTACTATCCCCTACCTATAAGGCATTTATAATGTGCT  
GGGCATTGTGACACTTTTCATATATTATCTCATGAAATCCTCACAATAATTCTGAAGGTA  
GCTGGTATTTTATCTCCACTTTACAATTCTGAGGCTTACAGAAGTTAATTCAGTGGCCC  
AGGGTCACACAGTTTACAAGTGCCACATTGGTGAATATAAAGTAGCAACTTCTAAGTTTC  
ACTCTCCCACTTCCCTAGTTATTTTCTAAGGCATGAATGTCTGGGAAATAGCATGCATC  
AGATTTTCCACCTCTTTAAACCTCTTCAGTTTCATATAATTTAAGGGTGTGACTATTTCATA  
GATACCTTTGAGCTAATCTTCTGGGAGCCAATGTAACCGCAATGCACACTGCAAAACAAT  
GCACGCTTNCCTGTGAAATTAATAATGCCAACCCGAGCTTTGGGAAAAGCCCATCTTTTG  
ATATGAACAATTAGGGCAGTTTAAGTTTATAGAAATNAAGAAAGTCCACTGGTCTGCTTT  
T

## Sequence 809

CCCTTTTCGAGCGGCCGCCGGGCAGGTACTTTTTCTTTTCTTTTTTTTTTTTTTTGGAA  
GAATATTGCATACCTATTAGAAAAGTCTTTTAACAATTAAAATTGGAAAATGACTGACAA  
ACTTACACTATTTGATTTAAATAAATAAATAAATGGTCACATGATAACAATCTCCTGATT  
GATATGCTTTATTTAACCAGGTTCTCAAACCATGGATGTGAAAACCAATTTTACAATG  
CANAGGTAAGTGTGAGTGTGTTAATGGGATTTTCATATTAACATTAAGATCGTATTTGAC  
TAAAAATCTCTTATATACATTTCTAATACTGAAGCAAAATCGCCAACGTGACTGTAAATTA  
TTTGAAAAAATCACAAATTTTCAGTTAAATTTGAATAATTTTATTATAGGTCTCATAATCT  
TTTTTCAGCTTACATGGAATCAATGTGTCTTGATTTTTATTCTCGGTAATTTTATAAGGCC  
TTCATCTCCTTTTCGGTTAAATGATTGCCCTCTCATTCCATTTAATGGNGGTTGTTACACT  
AGCAATCTGTTGGAATATTTACATGTGGGTTTCGGGATTTTCCAAAATTTGAATTANTAG

Table 1

AACCTACCGCTGCAAAATAGATTAATATTACATGGGAAAAATCCTGGNCAAGGGGAANT  
TTCNNCATTAAATTNTTNCAGGGGAGTCCGGTTGGCCANCCAGAANTAAGGTNCTGGGT  
TNGGGGGAATGGCTTAAAGCCCTTGGGAAAAACAAATTGGCCAAAAANGGGAGTTACCT  
TTTAATTGAANAANTTTTTTTTACCCTNAAAAANGGGATAAAATGNACTTGNCCNAAAA  
AAAAAA

## Sequence 810

CCCTTAGCGGCCGCCCGGGCAGGTACTCCATTTCTTTTATTCATATTATTTACCAAAT  
AATATTCCTACTGTGTAGATCTATCACATTTCTTTAGCAGTTTATCAGCTGGTGGACAAT  
TTGGCTGTTTTCCATTTTTTGGCTGTTATGAATAATGCTGCTATGAGTCATAGAAACCATT  
CCTCTTACTCAAGAAACAGGTTCTCCAGAACTAAGCTAACTTGTGTTGAAATGTAAT  
CTCAGGTATTCTCAGTATAGACCTATAGATTCACCTTAGCTGGTGGGTCCACCCAACTTC  
TTTTACAAGTCTCCAGTGGATTCTGATGCAATGCTAACATTTGTGAACACTGTCAAAA  
TCAAAATGGAGTCACTTGTGTTAAAAATCCTGACAAATAAGCCAGGGACAGCTATGAA  
GAGAGGTTCTCATGCATCAATGCCTGATTAACAAAACTATCCCAATGACTCTGCAAA  
AACCC

## Sequence 811

CCCTTAGCGTGGTCGCGGCCGAGGTACAATCATTAAACTATGTTGTAATACTGTTTGTC  
TTTGATCCATTCTGGCGTGTCTCCATACACTTCACTAATTTGATATACCTGTTTTAT  
ACCAATATAATGCTGCTGCTGTACGTAGAAGCTGTAGTCACCATATCCTCTATTGTTCA  
ATTATTTTTTTCATCTTCTGGCACACTAGGATCTATAACAATGACAATATCTTCAAAGCCA  
TTATTATTCAGCTTAATGAAGGAAGTATTTGACTGGTGCAGCAGGCACAGAACTAAGAGG  
AAAAACAAACCTCTGAATAACCCCAATTGTTCTCTCTAGTTATTCTGGCTCAAATGTTG  
GTTGTTCCCGCGTCTGCCCCGGCGCGCTCGAAGGGCGAATTCAGCACACTGGCG  
GGCCGTTACTAGGTGGATCCGAGCTCGGAACCA

## Sequence 812

CCCTTAGCGTGGTCGCGGCCGAGGTACCTAAGAGTTATTAATACTATTTTCACTAAAAA  
AAAAATTTAATAAACCTGTGTGATCCCCATTGTAACAGAAAGGCTGATGTTTCTGTTGT  
GAAATACAAATGCAAGGAAAAATCATTTCTTTGTTTCAAAGGATGCATTTCTCCATAA  
AGAATAATTTGTATTTATTTTAAAGGGTTATTTAACTTATACATCANCCTATNTAAA  
TACATTTCAAAATGATCTGTGCTCTTTAAATTACCAAAAGCAA

## Sequence 813

CCCTTGAGCGGCCGCCCGGGCAGGTACATGTGCATAAGAGGGAATGCTTCCCTACATTAC  
TCCAGAATACAAAGCTTCTTTCTGCCTTTCTCATCCACATAATGGAAGACACTTCTTGGG  
TGAAATACTCCACANTTATTTCACTTCTCACTGGTGAGTCTGAATATAAGCTCTATGAGA  
GCAGGGACCTTGTGAGTCTTATTCACAATATCCCCAGCCTCTAGAACAAGGCTGGCACAT  
AGTAGATGCACAAAAGGTGTTTGTGCTGAATGAATGGATGACTGAGTCTGTGTTGGGTAATG  
ATAGGGCTAAGGATGGGACTCTAACTCAGGTTTCTCTGTGGGTTTCACAGTTTACTGG  
TCTTAAGAGGAGAGTTTCTTAACTTGCCTTATGATAAAAACCACCTTCAGCATTTGNTA  
AAAATTACCCATTCTGTAGATTCTGAGTCACTGAGCTGAAGTGGAGCTGATGAATCCT

## Sequence 814

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTNGNTNTT  
TTNNCA  
ANNATTAATAAAAAATTATTTTACTACAAACAGANAACGAATTAACCTANNANCCT  
AANATACTTTNTGGAATTGAAATGATACATTATATATACCTATNANGATAATNGNNTATA  
NCGNNNCTAACTACAAATTAGTCATAAAAANGACTTNTGTNCTATATCAATTAATAAAT  
GGATTAATAAATTGANTATNATAAGACAATA

## Sequence 815

CCCTTTCGAGCGGCCGCCCGGGCAGGTACAAGTATTATGTATCCATAAAAAATTAATAAAT  
CTTTAAAAATGCATATGGGGTCACTAGGTAAAAGAAAAGAGAACCAAGAGAGCTGCAGC  
CGGGGAGCACAGCTTGCTTTAAACATGAGATCCAGCTCAGTGATCATGCGGGGAAAAGG  
CCCGGCATTGCTGGAACCTCTAATATTTAAAAAGATGATGGAACCTTGAAATTTTATATT  
TAATCTTCTCATTTTTAAGTGTGGCAATGTATTGAAGACTTTGAAGCCTCTCTGCTGGT  
CAACAAGATGTATCTGTAGGCTGGATTTAGTCCACAG

## Sequence 816

CCCTTAGCGTGGTCGCGGCCGAGGTACAAGTGAATAGCTATTGGTCTTCAAGTGGGTTT  
AGATTTGGTGACATCAGTTTGATATTCTCTTAAAGGAAATAAATATTCAAGAACTGATTA

Table 1

TGTTCTAACATGATTATATTCATGGTGTACATAGGCCTCAATTTTTTACAGAAAGATT  
TTTGGAAACAGGACTGTGAAGTGAGGCTTTTTAAAAAATTATTTATAAGCAGAGAACACA  
GCCTGATAACTTAGTCAAGGATATACTGTCTGTCTCACTACTTTGGACTTATATGGCTTC  
AGATTAAGTCATCCAAGAAACATACAT

Sequence 817  
GATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGGCCGAGGTACATGTAATAGACACTA  
TGCTACAGCAAAAGCTTTTCTTATTGTCTTTAAATTTTCTGGGTGCATAAACTATGT  
GGGTAACCTTTTCCCAATTTTAACTTTTACATTACAAGTCATTTTCAGAGTAAAAAGTC  
ATTTAACAAAGGCAGATAGAAAAGGCCTCAAATCCNTGAGGACCAAAAATCCCAACACATT  
TTCAAAAGGGAGAAAATTTCTTTAACTTCATGGGAAAAGTATTTTAAACATAATAGAGA  
GGCTTTATGCAGTCTTGGACAAGATGATACTTTTGAATAGAACAGGAAGAGGAAAATA  
TTTCATATTATAAA

Sequence 818  
CCCTTAGCGTGGTTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTNATTTTTT  
TTTTTTTTTTTTTTTTCNNTTTNNATTTTGGACTTTTTTTTTTTTTTTTTNNAAAAAA  
ANTTAANTTTTTNAANNNTNNTTTTTTTTTTTTTTNAATNTTNTNNTTTTATTA  
ACAAANGAAAAANTNACTTTTTNTCCAAANANNCGGCCTGNAAAAACNTAAAAACAAT  
GCNNGGATGGANTCAAANTAAAAATTTTTTCTACGGAAAAANAACTTTTTGGT  
TTNTTTTTAACAAAAANNTAGNAAAAATTCNNTTNTTTTAAAAAGNTAAATNGGNTTT  
TTTTTAAA

Sequence 819  
CCCTTAGCGTGGTTCGCGGCCGAGGTACAACGTGTAATAGCTATTGGTCTTCAAGTGGGT  
TAGATTTGGTGACATCAGTTTGATATTCTCTTAAAGGAAATAAATATTCAAGAAGTATT  
ATGTTCTAACATGATTATATTCATGGTGTACATAGGCCTCAATTTTTTACAGAAAGAT  
TTTTGGAACAGGACTGTGAAGTGAGGCTTTTTAAAAAATTATTTATAAGCAGAGAACAC  
AGCCTGATAACTTAGTCAAGGATATACTGTCTGTCTCACTACTTTGGACTTATATGGCTT  
CAGATTAAGTCATCCAAGAAACATACATCACTTAAATGGTATATATTGGGAATATATG  
CCCCTTTAAAGAATCAGGTCAGAAATGCAATAACAATTAGACTAGACTGTTGCCCGTGT  
TAGGAGAAATGTGTGGGTCATCCTAGTTACTAATTACTCTCACTCAAGATGGAGATGTTGT  
CCAGTTTAAACATAGTCTTAAAGTTTCTTAAACCCAAATAATTTATGA

Sequence 820  
CCCTTAGCGTGGTTCGCGGCCGAGGTACTAGAATTAGTTCCAACCTACTGCTGGTGATAAAC  
TCACCATCTACCTTCACTTGTTTTCTCTTAATTCTCCAAGAGTAATCAGGTGAATAAG  
AATCATCATCAGATAATATCTCCAAGATTCTTAAAGAAATTAATTTTTATCTACTCTTA  
AATGATTGCACAATTATAGGATAGAAATTACTATCTTGTGCTCTAATTCAAATGCTCTT  
AATGATCCTAGAGAGAAATGAATTAAGATAGATAAAAGATAAATTTGCTGTGGTTGCG  
ATCTTTGTTTCTTCTTAACTTAAACA

Sequence 821  
CCCTTAGCGTGGTTCGCGGCCGAGGTACTGGAACCCAGACCTTACTTAAGCCCACCAAAGG  
CAAGGTTTGGGCTGCCACAGCGGATTTCAAAAAGACAAAGCAATGCAAGCCACGTGTTT  
AAAATGCCCTAAGTGGCTATTCAGGTAATATATAAAAGTAAGACCAGGCTAATTAGTATA  
CAATGGGGTAAACCAGAGAGCAGAAAGCCCTTCTTTAAATGAGCCTACCACTGCTTGGC  
CTCAGTGTGAATTTAGACCCCATCTTCTGATATTTAGGAGAAAAGTAAAAATCTAGATTT  
TTATCTAAATCTTTTTAATTTTTAAACAGTCACCTGATTT

Sequence 822  
CCCTTAGCGGCCGCCCGGGCAGGTACAGAGCATCTTAAGGTTGGAAGGACTCTTAGAGA  
CCATAGTCCAGCCTCCCACTTGATACTGAAACACGTTTGTGAATTCATGGCCGATGTCTA  
ACTTCCCTCACCACCTTTCCGATATGGACAGTTCTCATGCCAGAAAGCAAAACCTTCTTT  
ATTGTGCTGTCTCCCTTGACTGTCTATGCATATAATCAGCATCTTTCCCACTAAGTGAA  
GGGCCAGACTCGAGCACAGGAGCACAGACCCCTTAAACTCACGAGGGGCTGCATTCAC  
ACCATCAGCAGGGAGATTACACTTGTGTCAATT

Sequence 823  
CCCTTAGCGGCCGCCCGGGCAGGTACCAAGACTTTAGAGGGCAAAGAACAGAGGATTCTT  
GAGAAAGGGGACTTGAAGGTGAAGAGATAAAGGCTGGTGTCTCCAGGAGCGTGGGTCTCC  
TACGTTTGTGTTCTGGGAAGAATCTTGGACTCAGGCGTGGGCAGCTGGATGCCTGGGT  
CCTTAGGCTTCTCCAGGCAATGTAGTTGCCTCTTCTCTCCCGCTACATAGTAAGTG



Table 1

TATGATAGATGTTTGATTTGTAAATTACAAATATAAATTATCACCCCCATTTCCATTTAT  
TTTCTTGATATATCAAAATGTGTTG

Sequence 824

CCCTTAGCGTGGTCGCGGCCGAGGTACCCCCATTATAGTAGGGAGACTGAATCTTCAAAG  
TTACAGGGTGAATCAATGATAATGATCTTTCAGCTTTCTGGAGTTAAAAAGCATCAAAA  
TTGGGAGATATTAGATGATGACATCTAAGTATTAATAAGGAGATATTAAATGATGACT  
CCTAGAAATGAACCTGAATAAGGACTACCGCAATGTGTGTGGTGTGGGAAAGGACAGTTC  
TTTTAATGGCTGGCTGACCCAGCCTCAATTTTCTTGCAGCTTCGCCGACACGAGGTGACC  
ATCTGCAATTACGAAGCATCTGCCAAGCCAGCAGACCATA

Sequence 825

CCCTTAGCGTGGTCGCGGCCGAGGTACCTCTCATGGCTTTTTGGTTCAGCANTGAGGGC  
ATTGGTGAGATCAGTGGTAACTGTGCAAGCTTTCTTTTATCATTAGGAAATGTGAAAC  
GTNANGACAAATTTTGAGTTTTAACAAGGACAAAAAGTTGAAAGAAAAGGCACAGTTAAC  
AAAAAGGGTGGCTAGATTTATCTTGGGTGATGGAGGAAATGAGAGAGGAATGCTCTTGA  
AAGGTGGTCTGTGGATCTGTCTGAATAG. AAGAGCACAGTNAGTATGCATTGCCGGAGAA  
AACGTCCTTGAAGCTGCTTGTCTCATGTGTATGATGTG

Sequence 826

CCCTTAGCGTGGTCGCGGCCGAGGTACTCAACAAGCAGCTGACTTATGTTTTATTGGACA  
TTGTGATACAGGAAGTGTTCAGAGCTCAATAAGGTACGCGGGAAAGTCAACTCAGTTA  
CCTCTGTTTGGTGTGTGTATCACTTGCAGATGCTGTCTACCACCTTTTCAGTGACATCCT  
AGAAGCTTCTCTATTACCACAGNAAGTGGCTAACTANANATGATCTTTCCCTAATTTTCA  
TGAGCATCTTTTTCTGATATAAACCAGGGAGGGAAAAAACAAAGTTCCTTCACTTTGA  
AGGGAATATTC

Sequence 827

CCCTTAGCGTGGTCGCGGCCGAGGTACATATATGAAAAGCCAACATTCTAAAGTAGAGGT  
TCACTTAATTTTTTTTTTTTCAAGAGAGGCTTCTTGGTAGTTTCATCACACAGTGGTTT  
TATTAGGGGATGTAAGGATTACAGAAACATCGTATTTTTTAACATATAGTATTTTTTGA  
TATGATTTGAATTAATAGAAAAGTGCATTTTTCCAGTTTTTTAGGGAAAAGGAGAT  
ACTTCACCAGGAGGATAAAAAGGAACAAGGGGAAGGGGAAATAAAATTCAGAAAAGA  
TGAAAAATTGTTGATGTAAGATGGAGGCACATTTT

Sequence 828

CCCTTAGCGTGGTCGCGGCCGAGGTACAAACAAGCTTTGTAAACTAACCCCTTGCCATCC  
TGGCTACTTTACCCAATTAACCAACCCTAGCCCAGGACGTTTTGCTTTATCACATGTTTAC  
AGTTTGCTATTCTTTGTTCAATCTTGAAGTACTGCACTGCTTCTGTGGGTCTCTGTT  
TCTTTATGAAGTTTCCAGGCCATACAAAAGTGTGTAGCCTATCTTCTGTCAAGTTTAA  
TTGTGGAAGTCAAGCCAGGCCCTTAAGAGGATGGAGGAGAGTTTTTCCACAGCAGTTCTG  
AATGGGATGAAGTAAAAATAAAATCTCCCCATTGCCACTACACCACCTCCTGATGAGTC  
TTGCAGCAGAAATACCGTTTAACTGTTTCTGCTTTTATTTTTTCTGATTATCATCCAGT  
TTTATATATTTTATATCTGGGGGCTTTGATAATTATATATACATACTTTTTTGAATTTAT  
TTACTTATTTCTTACATTGAAAAGGAAGTTCCTTTGTAAATCTAAATTCCTTTNCCTTC  
TACATTTTTTTT

Sequence 829

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTCACAAGCAATAACAGATTATAGATCAGTT  
GACATTGGCTGGTCTCCAGGACAGGAATGTGGCCAAAAGGGTGCTTTGTATAGACGCGGG  
GCACTGAATCTGTGTCTCCCTGTTACCTACTTTTGCCAGTGAAATTTAAGTTTTAAAT  
ACTTTGAGAATGTATTTTACTACTGCAAGTTTTTGGTCTTTAAATGTCAAGTAGCATC  
TCTCTCTTCTCTCTGTCTCTTCTGTTTCTCTCTCCAGTTTTTTTTTTTTTTTAAATTT  
CCATATGGGCTAAAGAATCCAAATATTTTAAAAATCTGNCTCTCTTTCTCTCTCATAA  
AGTGAATTATTCCTCTTTTTTGTGTTATGTAAGTGTATATATTCTTAGTTTTCTTGAAA  
TCATTGTAATGCTAAGTTTGTGTTTCAAATATCTTGGTGATTGCTTCATTATCTCTTCA  
ACAAAAAAAACCTTTAATT

Sequence 830

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACAAGCCATTGAATAAGCCTCTTCTTTTTTTT  
GCTCAAACATTCCACATCCTTGTGGATTCCCTGCATTGTTGTTTTATATAACATTTGA  
TATTTGTTGTAGCTTGTATATGAACATAATTTCTTTAGAGGTAGTCACTGTTCTCTCCA  
GTATGACCCAGGTTTCTTGACTCTGAGTAATGCACCTTCTATAACTATCTAAATTTCTAT

Table 1

TGAAGCTTTTTGGATTATGAGTATGCTGACTTTTCACGATTGGCTGGTGCATGTTAGAC  
TTAAATGTCATATCCTTCATGTCTCAAAGCCAAAATAGTAACATCTCATCTCAGAACAGA  
GCTGTGACCACATGCCAATATATGTGTCAAAAGTCTACATATGTTACATTCCTTGGAAG  
TCTCCTTAAATGTTTCACA

Sequence 831

CCCTTGAGCGGCCCGCCCGGGCAGGTACGCGGGCTGGAAAACCTGAACGTGAAGTCACCACT  
AGGCAAGCTGCCTGTAATTGAGCTTGCTTGATATGACCAATCAACCTTTGCTTGTTGAA  
GGGTAGTTATCTAGTTTCCTTCTTTTCTTTTGGAAATTTGGTCTTTAAGGTCTTGAT  
AATCTTTCTAGTCTAGAGCATGTGAACAGAACAGAAAGGAAAATCAGGACTCAGTTTACTT  
AATTTAAGCAAGCATTGGTTGCTGCAGTTCAGGGGAGGTTAAAGTTGCTGGGCTCCACTC  
TCTTATTAGCATGGATGCTTAAGAACTTCANGGGTTTGGAGGTCAGCTTGAACAGCTGTT  
TTTTGCACTCTCCCTGGTTTTAGTAGCCTGAGTCTATAAAAAGAATACCACTCGGGTAA  
AAGCTAATATCCTTTAANCCATTTTTACCTTGATACCATTGCATTAAAAAAGNATTATT  
CAATGGGCTTTCAATTTGCTTTTTGGGCCTTTTGGCTTNAANTCAAAGTGTNAAAAAAG  
AATTGCCATGGNTTTAAAAA

Sequence 832

CCCTTAGCGTGGTCGCGGCCCGANGTACCCTAGGCAGGGACAGTCAAGAAAACCTTCATGG  
ATCTGTAGTGTAAGCTAGGGAGAAAGAGGAAGAGATGCCTGTTTGAATTTCTGTAACTA  
GCGTATCTCCAAGATAATGCATGAACAGCCAGTAAAGATGAACGCAGATTATTGATGGAA  
AGAACACACATGGAGAAGAGAAAAAGCAAGTCCACAGAGCTTTAACATACACTCCCTCA  
CCCCTACCCCAGCTTAGAAGGGCAGGAACCTGCTGTCCAAACAGGAAATATAGGAAAT  
CCAGCTTGAGAACTATCCACT

Sequence 833

CCCTTTGAGCGGCCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTGGNCA  
AGTAGAAATCAAACAGTCCTAATGGAGTTCATATCTTATGGCATTATAGAAAGGCTTAGT  
TATGAAACTATCTTGTTATTGTTACTATTACATTGCCTGGCTCATATATATAAAGCATT  
AGAGAGAGCTTCCAATAACTCTCATTTAATTGGTGAAAAAATTAAATATTGGTTAGAT  
ACTTACCTAAATATTACTAGTTAAATTCAAAGTAAATGAGTCTGTATCTTTAAACTACT  
TGGCAGTAATAATTTTTAAAGTAGATTTTTATTGCTTTTCTTGAACCTAAGTGTTC  
TACAACACAGGTAGTTTTATTGTGCCTGGAATTAAGGAGTGAGACACATTTGTAAAATG  
TTCACAATCAACGCCTGTCCCATTTTAAATCTCACAAGTTTTCTTCATGATTAACACA  
ATTACAAAAATAAGAAATGGTATTTGGTCAATCTCTGAGTTCAATCTGTGCTAGTAA  
TATACTTGNAGGAAAAAGTAAAAAGGNCAAGAGTCTAATTCATTTTCAGTTTTTAA

Sequence 834

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTGGNNTTT  
TTATCTGACCACTTCCAGGAACAAAGCCAGGGCTCTCTGGGCACCTGAGTATCCATTCTC  
TTTGATCATCCATTCCATGTCCAGAACACATTACATCCATGCTTATAGTTCCCTCATTG  
CCTGAAGCCTGCTGGGTGGGGCATAGTATGAATACTTGCCCTCATCATCCCCATTTTACA  
GATGCATAAACAGAGGCCAGTCAGTATGCCTGCAGACTGTGGATAGAGCCCGAAGCCTCA  
GGTTAGGCAGCTTGCATCCAGCTGTGAGTCCCAGCTAGGGGAAGTGAAGCAGCCTCCATC  
ACTCCGTGTCTCGGTTTTCTGACCTCTCAGGTGGGTATCATGATGCTGGCTTTGGAGGGT  
AGCTGTGAGTATTAAATTACGCTGATGCAGGGCAGGTGAGCCCCCAAATTGGGGTTAG  
CTTGCGAGAGTTCTTGGCTTTGCCTAGGAAATAATTCA

Sequence 835

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTA  
ATTTAATGGAAGAAAAGTCCAACCTTAATACTTTAATGGANAAAGAAGGAAGCANTATAA  
ATTTGTGGAGACTCCAATCACATGTCTCCACTCTGCTACCCTGGGCCCAAAATAAGGGA  
GGAGACACTCANAGCCAGGTGTTCCCTTGATGGGAATGTGATCAGGNGCGACATGGGCT  
CACAGCCTCNCCTGAGGCTGGATCTTT

Sequence 836

CCCTTAGCGTGGTCGCGGCCGAGGTACTTAGCAAAGAGACTTACACATTAGTGAAAAATC  
TAAATCAGCCTTACGTGGGATCTGCCCAAAGTATTATTTGCAAAAGTATCATTTTCAGT  
TTTAACCTTTAGGGGAGCAGGGTAGGCTGGGGTGACACACACAAATCTAGGCAGGCAGA  
GAGCTTGCTTTCTCAGCTTCTTACCCTTAGTAAGACCACTTTAGTAGGACACTTAAGTA  
TTTCAGTCAGCGGATTTGAATCTGACTTCTTGGATGCATCTGTATCAAAACATACCATTA  
GATGTGTTACAGAACTGAGCAGCATATCATTAGATGTGTTACAGAACTGAGTCCTACTTA

Table 1

CAATAATTAATTTAATTTCAATAGCGATCCCCACCATTTATGTCCTAGGCATCTACACAA  
TTGGTCTCTGAGCGAAAACACAGCCTTATCTGCAATAAAAGCCTCTGCTTTGCTTTGGCA  
TGTTTTTACAATCCCGCGCA

Sequence 837

CCCTTTTCGAGCGGCCGCCGCCGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTGCAAACT  
TTAATAGGTTTTCTTAGCTTGACAACTCATTCTATATTCACNAACATCTCTGACTTG  
TTCTTTCAGTGGANATACCTTTTCTAGCCAGAGTTGGCAAAAGTAGCAATAGCATGCAT  
TGGCTTGTTTGANAGGCCCTGGGTGAGCCTTTGTTGCATAAAGTAGGAGGTCTGTTATTG  
TCTTGGTAGCATATGCCTTCATTATAAGTTTGCCTCTTTGAAAGAAATATTCAAAGACCAA  
CACAAAAGAGAACATTTCCAGATCCAAGAGAGTGTATGTAGAAACAGTGACAAGTTAGAA  
AATCAACTTAGGTATCAGATAGCAGCCACAAAATATGTTCTGAGGAAAAATTCATAGCAA  
TTTATAACAGCTGAAAAAAGAGGGAGGATGCGGGAAGGTAGATTTTGCAGAACTTACT  
AGACTAAGGATTTATTGCATATTTTTACTAATTAATG

Sequence 838

CCCTTTTCGAGCGGCCGCCGCCGGCAGGTACTACAAAAATAATGAAGCCAGCTAATTACCAT  
CAGGTTACAACCTTTACAAAGAAGTGAAGCAGCAAAAGAGCTGAAGCAGAAATGACATAGGA  
AAACAGCAGCAAAAGTCTTGAGTCCCAACAGTCCACCTCAAAGACAAACATACTAAAGAA  
CAAAGGCCCTAATCCACCTCCTCACCCGCGTACTTTTTTTTTTTTTTTTTTTTTTNC  
CATCTTCTGTTTCAAATCTTTATTATACATCATGGTTGCACAATTTGAGGCTTAA  
TACAATTGGTTTTCAAATCTCTTTGAATATTTCTGGCTTATTACATGCAATGACCAT  
GAAAATATTTGGCATTTTAAATTTCTGAAACTCTGAATAGGCACCTGCATGAAGGAAAAC  
AT

Sequence 839

CCCTTAGCGTGGTCGCGGCCGAGGTACGGACAAGGGGGCGACTGGCATGTGGTTTGTTC  
TGGTCTTGTAGTCGGTTTGAATTTTCTAAGTCAGGGTGGGGTGGGGGGACTGTGCACGA  
GTCATGTGCAGACTGGAACCCATCTCCCCCTCGGTCTGCAAGTTAAACAATTTGGTTGT  
CCTTCTCAGCATCTGCCAATGTCTCTTACTCAATCTGGATCAAAAGGGCGTTGGAGGAG  
GAGGCTGGGAGGGAAATCCAGACAGTTCTCCGCCTCTGACATCAGGTCAGCTGTTAGCA  
TCGTGCTGTGGGTCCCTGAACAAGAAGCAAAGTCAGGACTGGTTTGGCCAGGTAGGTGAG  
GATCCAGTGTGGGTGATTCTGATCCATGCAGCCCTTAGAGGGCAGACAGACGTGAAGTG  
GACATTCTAGGAAGAAAGAGCCGACTGCCGGGTGACCTGTCTAGTTCACATCCACTCACC  
ATTTCCCTCCTCGTTCCCTATTCTTAGAAATAAGACTCTGACGCTCTCTTTTATACAGGT  
AGTCCCCTATAGGCATGTCATGGTGATTATTTGCAATCCTNCTGACTTTCCTAAGAAGAG  
ATCANACTTAGCAGGGTAGTC

Sequence 840

GTGGTCGCGGCCGAGGTACAAATAAATGTATCTTGGGTAAAGTGCTATAAAGGAAAAGAA  
CAGGTTCAATGGAAGGAAAAATTAGAATTGTTGATACATGAATGGAAGTAAATGACCCGG  
ACTTCCAACCTCTAAATCTCTGTCTCATTTACCTCTTTGTAAATAATCATTGCTATTATG  
TTAAATATCACAACTACTGTCAATTTCTTGTACCCACTACATTCTAAGCTTGGTGCTGA  
CATCTTTGTATTTATTATATAAAATTCTCAAAATTAATCTGCCCCGTTAGGCTTTCTTATC  
ACTTATTTCAAATGCAAAAAATAAGGTCCAGGGAAGATAATTATGTNACTTGTTTCATGATT  
GGAGAGCTAATAAGTGTGAGAGATGAATTNAACCAAAGTTTGGTGTGACAAAAGCCTCTG  
GTTTTAAGCAAAAGGGGAAAAAAATTTCTATTAATCCAAGGATTATCATCAGGGAGTC  
CAACAGGGTTCCCAATTTGGGAACCTACCTATATTCAATTATCATATGGCAAATGGGTCCC  
CTTTTGTAGATGGAGAAGGGCCAAAAAATTTTTTTTTTTTTTTTTTTTTT

Sequence 841

CCCTTAGCGTGGTCGCGGCCGAGGTACACTTAAAAATGTATGTGCTGTTCTAATGCTACT  
TATTATTATCCCTTCCCTTTGTAGAATGTATCAACACTAAAAGTGTTAATCCTGACTAT  
AACAATATTTGTTAACTATTAAAGGGGTAAATTATACTCTAAGCTTCCAGTTTTAGTTA  
AAACAAAAATGATTAATATGCCTATACAGAACTTTCTCCAGCACTTGGTAAGTATTTTT  
AAAGTGAAGTCTATTGAGACTGCAACCAGTAAACTATTTATGCTTATAATTTTTCTCAGG  
ATGGATTTCTGTTCTTTGGTGCATTGGTTGTGTTTATTTTATGTATCTTTTTAGCTA  
CAAGGTGGGAAAAATGACAGTGGTTTAGAAGATAAGAAGCACATGAATGTAAAGTAAAT  
ATGTGGAGATTTTGGCCACTCTGTAACTACTATCTGAAGTAGTTTTAAATATTTTAAG

Sequence 842

Table 1

CCCTTAGCGTGGTCGCGGCCGAGGTACAGTGGCGTGATCATAGCTCACTGCAACCTCCAC  
CTCACAGGCTCAAGTGATCCTCCACCACAGCTTCCAAATAGCTGGGACCACAGGTGCAA  
GCCACCACACTTATTAATGTAGATTTCTTTGTAGATGTAGATTTCTTTACAAAGTGAC  
AGCTTTTCAGAGCTAGTCCTATGTCTGCAGTTTCTCAGAATAACCAGCTCAAAATATGCC  
AGAGAAGTATATTTGGGGTGGCATATTCTAGTCTCCTCCAAGTCATATTTGGGGTGGT  
GTGTCCTGAGCCCCAACAAGATAGGTTTCATTTTGGAAATGCTCTTTGAGTCCCACTG  
TTCATTCTCATAAGCCCAGGAATCACCACCTGTTGATTTCTAGGCATCTTCTTGCTCAN  
GGTAGTTAGATGTTTGGTGGGACTAGAAAATGCAANGGAGGGAGAAAAAGGAAAGGCTG  
GTGNATGTCAAAGATTTTTAA

Sequence 843

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTGCCTATTAATTGAT  
TAGGAAAAATAGGTAGACCCTGAGTGAAAGTAGAAAAAGAACCTTCTGGTAAAAATTTCTG  
AAAGTAGAAAAAGAACCTTTAGCTTTAAAGGTATGTCTTAATAGAGCAGTGCTAAGACAGG  
TGGTTAGGTATGTGAATGCATGCCACTTAGAAAAAGAAATATGAAGGAGAGGGACCAAGAA  
GGCAGATACATTGCCCTGATAAAGAAGTCATTTTCTCTCACCTTTACATAAATATCAN  
GCCACTAAAAATCTAGGAGCACAAATAATGAAAG

Sequence 844

GAGCGGCCGCCCGGGCAGGTACAAGAGAACGGACGGCACTTACTGAGCCCATCGCAAATG  
TCAGGCTCTGTGCTATACTTACATTATCCCATAATCTTCAAGACCCCTCAAGACCCACACA  
AAGTAACACAAAGCAGGAACTAATCANATTTACTTGCCAAAGGTCACACAGTTAATAC  
ATGGTGGAAATCAGGACTCAAAATCANGCCTGTGTGACTCCAAAGTCCAGTGCTCTCTCCA  
CTTTACCAGGTAACCTTCATAATACCGGATTGGAATCAAACCTGTCACTTTACTTTTCT  
ATGTCCTGAGTGANTCACAACTTTTCTCANCCAGCTTTTTTCATT

Sequence 845

CCCTTAGCGTGGTCGCGGCCGAGGTACCAGGAAATGGTTTGATTGCCATAGGCTAACCT  
TGGACCAATCACTGTGGCCAAATACATGAGGTATCCTTATTGGCTCCTTCTACTAGCAAC  
AGATGGTTTAGAGAACAGTGTATCACAGAGAAATGGGGATCACTATTATAGGCAGATTGA  
ATAATAAATGTTCACTCTACTACTCAATAAATATTTGTTGAACAAATCAAAGCTGATCCC  
TTTTTCAAATTTTTAATGTGACTCTTAGGGGATGGTGGATCCAGGAGAGAAGATTAGT  
GCCACACTGAAAAGAGAATTTGGTGAGGAAGCTCTCAACTCCTTACAGAAAACCAAGTGCT  
GAGAAGAGAGAAATAGAGGAAAAGTGCACAACTCTTCAGCCAAGACCACCTAGTGATA  
TATAAGGGATATGTT

Sequence 846

CCCTTCGAGCGGCACGCCCGGGCAGGTACTTTATTTATTTATTTATTTATTTATTTGTTTT  
ACTATTTCAACAAAACAAAATGTAGCTTTCTTAAATTTGTAGTTAAATGTTTTCTTTGT  
TTTCCCAATAAAATGTAAAGTTTAATATGTGATGGCTAAACTCCTAGGGGGATAAGGAGG  
CGCTAGGAGAAATAGGCAGGTTGAAAAGGGTAGTCGGGACTTGTCAGATTCTTGTGTGG  
TAGTCTGGGTAGTCTGTATTTACCATATGGGCTACAAGACACACACACACACACACAC  
ACACACTCACACACACACACACACACACACACACCTTGTGAGCATTATTTAATTCGCAG  
TTGATGGTGCATAGTTTGGGGAGTGGGTAAAGGATATGTTACTTTTGT

Sequence 847

CCCTTAGCGTGGTCGCGGCCGAGGTACTATGGTGTGTGTGTGTATGTGTGTGGTGTGTGT  
GTGTTTTAAGTTTANCTTTTGTTTTTGTTTTTGGTTGGCAGTAACCCNATTTTAAATGA  
CTAAGCTTTTAAAAATACAGTACTGATCATTCTATTTCCCCCTNTATTGATCCCCACCTC  
CAAATATCTCATCAACAACCGACTAATCACCACCCAACAATGACTAATCAAATA

Sequence 848

CCCTTAGCGTGGTCGCGGCCGAGGTACTGGTGTATGCTTGTGCCTGTGTGAAATTCTAC  
AGTGCTGAAAATCTCATGCACTCTAGCTATGAATGCAGGTCTACTTGAAGCAAACTCTT  
CAATCTAATTGTTTTCTCAATCTTTGTAACCAGTTTAAAGAGTCACCAGAAATCTGTAG  
TTTAAGGCACCAGATACATTTCTTGGCTGAGCCTTGTAGGACCAATATGCTGGACCAATT  
CGGTAAATACACCATAAATTATGACTGCTTTATCTGAATGCATGGGACACTTGCTACGA  
TGGCGGGAATTATTACCAGGAGTTTAGGAGCCAGACATGGGTTCTGTATTTTTCATACAT  
TGGTGATCAATTCAAATCTCTTTCTTTGCANCCAGGTTTGGTCAGTCTGGCCAGGAGT  
GCAGATTATGACAAAAAACAAAGCTAAAGACCTGAGCCATTAAGGTTACAGTCTCAATA  
CCACCGAGTTAAACAACCTATTTAAATGCAAGACTATTGATTGGAAT

Sequence 849

Table 1

CCCTTAGCGTGGTCGCGGCCGAGGTGCGCCGAGGTACAAAAGTTCTGAAATAACACTATA  
GGCTTAAGGAATAAGGGACCAGAAAGTAGCCTGGTAGCCAGTGATTTCTGGCTTTATACA  
TTCCTTAGGAAAAAACTTTATAGATGTATTTAAGTAGAATTAAGGTTTACACAAATG  
ATTTTTGAGAGAGAGAGTCCCTAGGACCTAAACATTCTGTTCTACGGAGATAGGGTCAAC  
ACGCAGATATTTATTTAGCAGCATGGTCTGCAGAAGTAGGAGGAGGTGACCAGATGTGAT  
GGATTATGCCTGTAATCCAC

Sequence 850

CCCTTAGCGTGGTCGCGGCCGAGGTNCCACCTAACAAATTGGAGGAAATGAAAAGACGAA  
TCAACAAACATTTTGGAGAAAAAATTTATTCTACTTCTAGAATTTTATTACTACAAGTGCT  
TAGTCTTGGTTTGGTANATGAAGTGAAATCAAATTTGGATATTTGGAACATTAAATATG  
GGAGCAGAGAATCTGTGGAATTATTGCTGGANGACTGGCATAAATTTATTGAAGAAAAAG  
AATTCCTAGCTCGACTTGATACTTCTTTCAAAAATGTGGAGAAATTTATAANAATTTGG  
CTGGAGAATGTCAGAATATTAATAAACAGTATATGATGGTGAAATCTGATGTTTGTATGT  
ATAGAAAAATATATATAATGTGAAGTCCACTCTACAAAAAGTGCTGGCATGTTGGGCTA  
CTTATGTGGAAAACCTTCGCTTACTAAGGGCTTGCTTTGAGGAGACNANGGAAGGGAGAA  
ATTA

Sequence 851

CCCTTCGAGCGGCCGCCCGGGCAGGTACCTATATTCTATGCAAAATTTATAAAATAATC  
CTTGAACATGAAAACCTCATCTTAAATTACACGAATTAAGTAAGCATGCAATACAGACAC  
TTGCAGGATGCCTGGCCTCTGGGAAGTCTCCTGTCTCTGTGTGAATGTAGAAGTGAGGC  
TCAAACCTCTCTTAGGAAAAATTTCCCTTCCCACTGCCCATCCATTTCTGCTGACTCAA  
CAATTCACAGAGGAAATGGGAATAGTATCATCAACTAGCAGTCCCTCCCATGCCAACAG  
ATTTGGGGTCCCTTATCTAAGTGTTTCTGCAGCCCGGTCTTCCCTTCCCTGACTTCCCGTAT  
TGGCTCGTTAAATGATTAGCTGGCAATACAGGTATGTTTGGACTGCTATTGGTGGTGAA  
GTTAATCTCTAACTGTGTTTTGTGAAAGGAAATATTCCTAAAAGCTTTGGTGTCACT  
TAAAAAAACAACATATATGATTGAAAGAAATTTGAGATATTTTGTTC

Sequence 852

CCCTTAGCGTGGTCGCGGCCGAGGTACTAGCAGATGATGGCACAGTGACAGCTGGGAGGG  
ATGGGATGTGCTTGCTTCATGTCCCCTCCCCTCTGCCTGCTCAACCCTACACAGTCTGT  
CTGGTGACCGTGCCAAAGTCTTCTGCTTGCAGAGAGGCCTNTCTTCGTGCAACATGG  
GCCTCAGGAAAGACAGCCTGAATGCCACTACCCAGGCTTGTTGGAAGGTTCTGCATCAGT  
GTGGCATTGTTGCGATAGCCCTCAGTTGATGCTTGTGTTGTGGTGTGGGAGGCAGGAAT  
ACTTAGGAGGGTGGAGGGGTGAGAATGAAAAGAGGACTTGCCCTGAGCCACCCAGCTGT  
GGTCACCTGATGGC

Sequence 853

GGNCGGGCCGAGGTACGCACATACATACACTAACGCTCAGCATAAACTTTCCATTACA  
CTTAGACAATGACTTGTGGAGGAAAAACAAGGATAAACAAGAGTCTCAAGAAGTTAAGAA  
AAACATCAGAGTTGATTATTTAGCACTTTCTCAGGATTCTAAGGCAATANGCCTAANTTC  
AAAACGTGAAATGTTCTCTATTTCCATTAGTCATTAAATGAGATAAATGACAAGCTAT  
TGCTGCTTCTCCATTCTGTTTTCAAAGAACATTACAAAAATAAACCAAGTGNGTCTCTAA  
CAGTTCTAAAAACAGNTTG

Sequence 854

CCCTTAGCGTGGTCGCGGCCGAGGTACCAGAAGCAAGGCAGTTTAGGGACAAAGGGCATG  
AGCTTAGAGTCAGATTTCCCTAGGTTCAAGCATNACTACTTATTTCTTTAAGAA  
CTTGGGCATCTGTAACCAAGGGATAATATCTTCTCAAAGGGCTGNTGNGAAGATTCAAC  
AAGGTAATACATAT

Sequence 855

CCCTTAGCGTGGTCGCGGCCGAGGTACCTGGGACTACCCACCACCATGCCCGGCTCATT  
TTGATTTTTAGTAGAGACAGGGTTTACCATTGTTGGCCAGGCTAGTCTCAAACCTCTGA  
CCTCAAGTGATCCACCTGCCTTGGCCTTCCAAAGTGCTGGGATTATAGGTATGAGCCACC  
GCACCCAGCCTTCAATTTTTTTTAAATTCTGATAGAGCACCATCTACTACATGCTTAATA  
TTATCCATAAACAGACATGTCTGAGCACAGAAGATCATGTTAATGAAAGATTATTGAAAG  
GTACCTGCCCGGGCGGCCGCTCGAAAG

Sequence 856

CCCTTCGAGCGGCCGCCCGGGCAGGTACAGAAAAAGCATAATGAATACAACAAGTAGCA  
TCAAACCTCAGTGTATATAAGAATGGCTAAGTGACCATTAGTCATGTGAAAAGCTTAACAA

Table 1

CTATTAAGCTCTTATTTTCTTACTAAAAACAATTTTAAGTTCTTTCAAGGCTATAGTTA  
CGCTTTACATAAGAGGCCCTATTACCCACTAATTCTTAAAATTTCTACCTACTTAAAAT  
TCTTTAGACATTTCCAAAGGTTAGTAAAGGAAGACATAAGATATGCTTACTTAAATCCTT  
GCTGGTTCATGCCTGGCCATACAT  
Sequence 857  
CCCTTGAGCGGCCGCCCGGGCAGGTACCATGAAATAGGACCTTCTACGGTTTAAAATAAA  
TGTTTGTTTTTTCTAGCCCTGTAGGTCAATGAATGCCTGACTCCAGTGACAGACCATAA  
TTATCCAAATCTCTCATTTATGAATATGGAATATAAATATGCTAAATTGATTATGTCATG  
AATAGACTTCTTTTTGCATAACAATGTTTGGAGTTTCTCACCTTTCTCCTNNCCTTNTT  
TTTCT  
Sequence 858  
CCCTTAGCGTGGTCGCGGCCGAGGTACAAATGTGAGTTCTTCTCCAGACCATCAATATAG  
ATTGGATTTATACACTGATCGCTGTGTCTCTCCTTCGTAATAACCTTACCCCATGTTGCA  
ACAAACATGGACTTGTTACAACATCCAGAGTGAAATCTGAATGTGGTCAAGAAAGTTCA  
GAAACAATAAGAGTGATGCAATGCATACCACAACCTCAGGCCAGTGCAAAAGTCAGGCC  
CAGCCCTTCCCATATAAGGGACTTGGTCATTTGAAAAATCAAAACCCAAAAGGAACAAT  
ATAGGGACCTGTAATCAATTAGAATATTC  
Sequence 859  
CCCTTTGAGCGGCCGCCCGGGCAGGTACTGGCTGGACTTGAGGTGGTTTAAAGTTGGCAG  
CTACATCGAAGGACTTCTGAAAAGCTCAAGTGACAGTTACACCTTTGCACTCTCCACATT  
CAGCTGGCCTTTTCCCTCAAAACATGGATAATCTTCAAACCTCCCTGAACAGGTGGAAAT  
GCGTCTTTCTCTAAGCCAAGTTCTCAGTCCACATTAGTCCATACTTGGCTACAGAATTG  
ACGTTTGTGGCCACAATCCTACTAGAAATGACCTTTGGGTAATATCCTTATCTTGTGAT  
CTAGTTAGGGTCAAGTAA  
Sequence 860  
CCCTTAGCGTGGTCGCGGCCGAGGTACTTTATGCAGAAGGAAAGCAATTGCAGATGGAAA  
AAGCTGAGATGCTATAAGGAATTACGGATTTTATAAAGAGATCACCATGTGGGTGAATGT  
AAATATAGATGAACAATGAAGCATAAACAAAATTTTAATATCTTACAGGCTAAAATATTT  
AGAAATGAAAGACAACAATAGCATATAAGTTAAGAAAGGGGTAAAAAGAATCAAGAGCA  
TTCTAAGGTCCTTATATTACCTGGAAGGAGAGTAAAGATAATGACTATCTTACAGGCTGAT  
AAATTAACAATGTATGCTGCCATTC  
Sequence 861  
CCCTTTGCGGCCGCCCGGGCAGGTACCAGCACAGCAATTGCTGTATGTTTGTTTTAAAT  
ATCGGTTTTCACTTGAGGGGCCAGTCTCTATATTTCAATCTATTTTCTATATCAGAAA  
TGAGCAGGCATTTTAAAAAATGGCTTTCATTGATGGAGAGGTAAAGTGAAATGGCTTTG  
TTGATTTATATTATAAAAGGCCATTTCCCAAATCTAGAATTTATTACTAAAAATCAAGT  
TTGCATTGAGGGGAGGAGTATGATTTGCTCAAGCTTACTTTTTTTATAGGTGGGGTTTTT  
ATATTTTCAATGTGATTACTCAC  
Sequence 862  
CCCTTAGCGTGGTCGCGGCCGAGGTACACATTCATGCTGGGTACATCCTGAGTGCCAGT  
GGAATATAATTTGGAAGGAATAACGTTGTTGAAAAACATCCTCTACAGACAATATGAACA  
ATGCCTTAGTCATCTATTGATTATGACAATATACTCTTGAACAAATTGTTTTCGGTTCTG  
GTTTTCTGTGGTACCTGCCCGGGCGGCCGCTCGAAAGGG  
Sequence 863  
CCCTTTGAGCGGCCGCCCGGGCAGGTACTACACCTCACCACTGGGTGTCTCTCAGACG  
TTACCAAGAGACAGAGTAAACCCATGCTTTCTCCTATCCAAACCAGTCTCTCCTGTTCCC  
TGCTTTGTCCAAACCCAGTTGCAGGAATTTATGTCTTAAAGTAAACCATCGTATGATAAT  
TTCCCTGAAAATGTGCCTATTAATAAAAAAATAGGATATGATGGGAGGCAGACATAAACA  
TTCTGGTCAATTTATTGGTGTTATTATTTTCAAGTTAATAAACTGCCCTTTCGCTATG  
CTTCACTTTCCACGTGTTTAGGCAG  
Sequence 864  
CCCTTTGAGCGGCCGCCCGGGCAGGTACATGCTCTAAAATGTAAGGATTCATTTATGAG  
AGAGTGAACATACTGCTTGAGCTAAAACATTACAGGAGACCTTAAAAAGGGGTATAATT  
GGTCCCTATGTGAAATGAACCTGACATATTTTATAAATTATTTGTGCATGACTATCTTT  
TGNTGATAGCACTAGGAAGACTTNTAACGTTTAAATACTTTATTTGCCCTCAATTACTAT  
TTAAAAGTCCTATAATTTTAAAGTAATTTTACAGCTGACAAAGATAAATATTTTTTCTTT

Table 1

TAGTTTTTCTAATGTCTTGGAGGTAAAGTGGAATGGCCTGTTTTGACACATAATTTCTA  
GAACTTGGAGTTAATTTTGATCAGTTCCATTTTGGGT

Sequence 865

CCCTTAGCGTGGTCGCGGCCCGAGGTACATGTTACTGGGTATTAAATGCGTTCATAGTAG  
GGTATTAAATCAGCAAGGTCCCCATCCCAGAAAAATGTGCAGTTTGTCCAATGGGAAAGA  
TGCANAGACAGTTTCAGTTAATATACTAAGTGCTAAAGATTGGGATGTGCACAAGAAAGCT  
GGAGGTAAAAATCTGGAAACTGAACGTGAAGTCACTAGGCAAGCTGCCTGTAATT  
GAGCTTGCTTGATATGACCAATCAACCTTTGCTTGTTGAAGGATTAGTTATCTAGTTTC  
CTCCTTTTCTTTTTTGAATTTGGTCTTTAAGGCTTGATAATCTTTCTAGTCTAGAGC  
ATGTGAACAGAACANAAGGAAAAATCAGGACTCAGTTTACTTAATTTAAAGCAAGCCATTG  
GTTGCTGCAGTTCAGGGGAGGTTAAAGTTGCTGGGCTCCACTCTCTTATTAGCATGGATG  
CTTAAAGAACTTCAGGG

Sequence 866

TAGATATAGGATAGTGATACNTTGAANAGGACTATGAAAAGGGACAGTAGGGCTTAGTGG  
AAAAAGTTTTAACGANNTCTACNGTTATTGAATNAAANTACATATAGCGNGATTCTTATT  
ACTTGAAATTAGGAGGAGAAAGAAATTTTTGAGGTAAATTNGAAAAGACATAAAATAGAC  
TA

Sequence 867

CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCCGGGCATGCAGCCAGGCTAGACCGGCTC  
A

GCCCCACTTCAAGACAAAATCTCAGCACCCATTACTCACCATACATATTTATGCAGTGAG  
CTGCATCATGACCAGCTATCATCTTACCTCATAGTTTTTTCTCTGGTAGAGATAATTAA  
CTTATTATGCTTGATCAGTTAACTCTTGCTTAGAAATTTAAAAAATATTTTTAAGTGACA  
AATCTTTGTAGAAATTTTGAAGATAGAAATATTTGAAGTAGAAAGTTAAATCACCCA  
CAATCTGCTTTTGTAAACATTTGAATATGTTGCTTCCATGATATATAACAAAATTTGT  
CTGGGTATTGCATATGTCGCCTTTCTTCTTAATATTGCATTTTGAAGCATTTAACCNGAA  
CTTAAATATTCTCCCTAGAACATATGGATTTTGAATAATTTAGCTAATTTAAAAATAA  
CTTCCCTAATGGTCCTTTGGGCTCTTTAAGGTTTTGCTGGTATATGTTCAAGGGGATGAA  
CCACTTAAGGCTCTTTGACCACCATACTGNCCATACTGCCATACTGGCATACTGNTTTT  
AAAAAAA

Sequence 868

CCAGTGTGATGGATATCTGCANTTTTCGCCCTTTGAGCGGTTNTTNGGGCAGNTTNTT  
CNNCCTTTCTGTGNTATTTGTGGCGGNATGTTGNATACTCTCTACCATGGGGATGAAGAC  
ACAAGAATTATGATAGTTCATTGAAAAAGGTTGAGAATTCAGAACTTGTCAGTTTCCACC  
AATAATGGCAAAGATACAATATGACAAAGTTCAGTTGCTTAAATGAATCTAGGAATGAAG  
AATCTAGAAATTATAATGGAGAGGTGATTAGGAGTTTAAATGGTTTAT

Sequence 869

CCCTTAGCGTGGTCGCGGCCCGAGGTACATTAAATTAAGCATACTAAAGAAAAAAGGAATG  
TTTTCTTAGCAATTTAAGAACTTGCTTAAAAAGAAAAAAGATCAACCACTCCCTCTAGT  
GACAAAAATTAGCCACAAGATGAAATTCAGTTAAATTCAAACACTGTGGAGATGGAAA  
GCCTTGATTTTAGATGAAAGGATTTATGGCTGGAATTAAGAAATTAAGGCGAGAAA  
AGTGGGTGAATGGAAACATTTACTTTTTGTTTTAAGTGTTAATAGCCACTTTTTGTCC  
AGTCTGNATCTCCTTTCATTAGTCTTTATATATATATACNCACACACCCCNACGAT  
GTTATATATACATATAATGGTTTATGTATTATATATGNGGATATATACACCTTATATGGT  
TATATATATGGGTTTTTTCNNGAGCNTTATATCATGGTGAAATGAGTTCAAATGGACCC  
TGGCCCGGGCNGGCCGNTCGAAAAGGGCNAATTCACCACTGCGCGGGCGNTTACTA  
GTNGGATCCCCAGCCTCGGGNNCCAANNCTGGGCGTAANCAATNGGGNAATAGGTGTTTNC  
CTGGGNGGAAAATTGGTNTNCGGTTAAAAATTCNCCCAACATTCANNCGGGAAGCC  
CTTAAAGGGGGTAAAGCCCCCTNGGGGGGGGCCCTTANTTGGGNGNGGGGNGCCCTTT  
AACCTNCNCCNNNTTTTAAAAATTTTGGCCNNNTTTTCCCCGCCCTTTTANAAAAAT  
TTGGGGCCCCCNCNNTTTTTT

Sequence 870

CCCTTGGCCCGCCCGGGCAGGTACTAATATTCTTCAACAGAATGCAATAAAATACGAGCT  
ACATAAATCCAACTTGGTTCAAAGGTAGCTATGTTTTTTAAAAAGGTTATTATAACA  
GACAAAGCAAATGCAAATTTATCTTCCAAACCTTGATAATTGGTAATACCAATAACTG  
GTATCTAATAAATATACAAATCAAGAGAATACCTTGCTAGCTAAATTAAGAAAAA

Table 1

AAAACT

Sequence 871

CCCTTAGCGTGGTCGCGGCCGAGGTACAAGGGCTTCTTTGGTGATAGTTTCTACTCTCTT  
TAAATACTGTTCTGTTATTTTTGAAATCTGATCAAGAATTGACACAATAAATCTCTTTGA  
TATTTATACTTATGCCTACTTTTAACCTTTTAGGAAAACTTTATGAATTGGAATATTCTA  
AAATCCTGAAATAATTTGGAATATTCTAAAATTCTGAAGAGAATATGAACGGATTGTGG  
AATGGAACTTTTACCCGATTCCCTCAGACTAGAGTGTTCATACGACATTTTGCCAAGAAG  
TTCCTATAGAGGCAATATCACTTTTAGGATGGATGGGTCTAAAAGGATCATATTTAAGTT  
TCTGGTTATTCATGGNTGCACTCACTTTAGAGGATGTGTTCCCTATTAGGGTTGCTGCTAC  
TATTTGTCTCTCCTAAATAACCAGTATGGAATTATAGAAAGAAAGGTGGGGAGAATAGTC  
CGTGTGATCTNCTGGGCAGCATTAAAGCCTGTTCCATCCAGCCCCGACTATTTTGGTCT  
TTCTTTGCCTTTGAAGGCCCAGAAGACATTTNCATTCTTCGAAGNTTTTATGGTCTATA  
CCCCTCTCTTGCCTNCATATNTTTTGAAGNGGGGGCCAGAATTTTTTGGATTCCCN  
TAAAAATGGACCTTGGGNTNTTTANCCATAANCCTGTGAAAATTCGAANGGGGGGGG  
CCCCTTNTNCCCCCCCCGGGGGGCCCGGGGGNCCCNCTTTTTTTGNAAAAAAAN  
GGGGGGNCCCCAAAAAAA

Sequence 872

CCCTTCGAGNNGCCGCCCCGGGCAGGTACAGTTCTGTGTTTTCAATTGATACATACTAC  
TTATGTAAGAAAAATGAGTAAAAATAGAGGGCCACACAGGCCAACAGCCATTAGGTTATGC  
ACAGAGAAGGAAAACTTCAGAGGTTGTGCTGCCATCTTCTGGAACAAACAAGAATCTAC  
AGGAACAGAAACATGATGGAAGAACAAGGGTTAGTTACTGCAACGAAAAACATGGCAGG  
AAAAAAACCATTTGAAGCCAAGCTTTGATTTAACCATGAATGAAAACAATGGGAAA  
ACAACAACNACNAAAAACAAAAACAAAAACAAAAACAAGAATGACCAATACAGAAATTAT  
TA

Sequence 873

CCCTTAGCGTGGTCGCGNCTGAGGTACTTGTTAAAATTCAGATTCCTGGACCCACCCTAG  
ACCTACTGGATCCAAATCTCTGCAGACATGGCCTGGACATCTTCATTATAACAAGCTTCC  
ACATAGATTATTTTGTCAAGTGGCCATGTCTTGCTTTGCTTCTGTGGAACTACTCTCCAT  
CTTCTGGAGTGGAAATGTCCTCCATTGCTATCCACATGGTCTCGCCTCCCTGATACTGTA  
GTCTCAGATGGCACCTNCTGAACTGGGCCCCGAGCTCAATCACTTTCCAGACCCCTGCCA  
CCTCGCTNGGAGCNTCAGTGGTCCCATGGTGGGCAAAGGAACCCAGGTTTNG

Sequence 874

GATATCTGCAGAATTCGCCCTTTNCGTGGTTCGNTTTCGAGGTACTGAGGATGACTAGAT  
GACAAATAAAGAAAAAATGGCATTGACTTTGTATAGAATTAATAATCAGATTTTAA  
AGAGGTTAGTCTATTCTCTTATTTGAGAGATATGGAACATCTAGGCCTAAAGACTGTA  
AATCTGCCCTGGAAATCAGATAGTTGGCAGCAAAATCAGAAATAGAAAGCAGTTACTCAACA  
ACCAACAGTTTAATTTAAGAAACATTTGACAAGCATCTCCTGTGGATAAGACCCTATGCA  
AGATGTCATGAATATAAATATGCACAGTAGTACCTGCCCGGGCGGNCCGCTCGAAAGGG

Sequence 875

CCCTTANCGTGGTCGNNTTTNGAGGTACTTTAAAATAACAGAGTGTGATTTAAGAATAC  
TCAGACTAGAGCCTTCAGTGAGTTGTCTGAGGGAAAGGAGTGAAGTCAGGACTTAGATAG  
AAAGATTACAAAGAAAGTCAAAGTAAGCAGAGGAAAAAGATACCAAAATGACAGCTTCAG  
AATAAGCAGTAAGGGAATAAAGAAAAACAAAGTTGTGTGTGTGTCATGTATTACATGATA  
AATCCATGGAAAAAGAACTCGCAATTTACTAAAGGAATAATTATGGTCATACCAATTTT  
TGTGTCCAAACTAACTTGATTAGTATCAGAAGGAAAGTCAATGTTTAAACAGTCTTCC  
CACATCTGCTACTTCCATAATGCCTATGCAACTGTCATAAATTAAGAGTAGAGAAGGGCA  
CAGGGCC

Sequence 876

CCGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTAGCGTGGTTCGCGTTTCGAGGTACT  
TGNTAAAATTCAGATTCCTGGACCCACCCTAGACCTACTGGATCCAAATCTCTGCAGACA  
TGGCCTGGACATCTTCATTATAACAAGCTTCCACATAGATTATTTTGTCAAGTGGCCATGT  
CTTGCTTTGCTTCTGTGGAACTACTCTCCATCTTCTGGAGTGGAAATGTCCCCATTTGCT  
ATCCACATGGTCTCGCCTCCCTGATACTGTAGTCTCAGATGGCACCTCCTGAACTGGGC  
CGAGCTCAATCACTTTCCAGACCCTGCCACCTCGCTGGAGCTCAANGGGTCCCATGGT  
GGGCAAAGGAGCCAAGTTTGGGCAACAAATCCCTATGCATTTAGAAAGTAGATGGGGCTGC  
ATTACAACACACAAGCACTCAAGGACTCTCTGTAATATCTGGACTCATAGGAAGGTGATC



Table 1

ACAGCAAGAGGGCAGATGAAGCNGACTCAAGAGAAACAGATNAGACCAGAGAGACCCTGG  
TTCTTGGTTTGTCTGAAGNCATGGNCCATCTNCTATTCTAGAATTANAGAGTTCCTGGA  
AAATCTTACCANAAAAAATTTCTTTTGGNTTNGACGCTTAATTGAGGNTAATTTCTAT  
TNTGGGCAATNTCAAAGNNATTCAANGAAAAAAGGG

Sequence 877

CCCTTAGCGTGGTCGCGGCCGAGGTAATTTTTTTTAAATTTTTTTTTTTTAAATA  
GAGATGGGGTCTTACTATGTTTCCCAGGCTGGCTCGAACTCCTGAGCTCAAGTGATCCTC  
TCACCTTAACCTCCTGAGTAGCTGGGACTACAGGTGCANACCACTGTGCCCTTACTTCTA  
TTCTTACTTGACAAAGGAGAGGAAAAAAGGAAGTTTAGAGAAATTAAGTAGTAACTT  
GTCCAAGTTTACCCACAACCACTAAGTGGTAAAGCTGGGGTTTGAACCTCAGCAATGTGC  
TTAAATCTCAGTAACCTGAAAATCACTATGGAGGACCTTAGGT

Sequence 878

CCCTTTGAGCGGCCCGCCCGGGCAGGTACATGTTTGTAATAATCCTTAAAAATTTATGC  
TCAAACCAACATTTCCATTTTATCTATCTTAAATATATCTTCTCTTTACGCCTAAT  
TTCTTAACTCCAGAGTTTTTTTCTGTA .GATCTAGTCATCTGTAGCACTTCTCACAA  
TTAAGCTCTCTTATGCCCAAACAGTAACGAAAGAGGTCTCTTAGTTGGACAATAAGCAG  
TGAAAGATATTTCTTATGGGACAAGAAATTAACATTATTAGTCAAATGTTGATGCCGGTA  
GGCTGAGAAATGATTCTCACTTAAAGCCCCTGGGTTTTAAACCTCTCTTAGAAAAACAT  
TAGT

Sequence 879

CCCTTAGCGTGGTCGCGGCCGAGGTACAAGGAGCTAGATCATCAAGGAAGGTGAGGGCA  
GGGTTACAGGATGAGGGCACTTTGCCATTCTTTGTGATTTGGTCAACAAATGACACAG  
GTTATTTACAATCTTGACCTTTTGAAAAGATACAGCAGGTAATAGCCTACAGGAAAGAG  
GAGGTAGAAAACAAGTGCCACAGTAGA

Sequence 880

CCCTTAGCGTGGTCGCGGCCGAGGTACATACAATAGAGTATTATTCAGCCTTAAAAAGGA  
TGAAAAAATCCTGACATGCTAAAATATAAATGAATGTTGAGAACATTATGCTAAGTGAAA  
TGAGCCCATCTAAAAAGGCAAACTACTGTATGATTTCACTTAACTGTGATATCCAGAGTAA  
ACAAATTCATAAAACAGAAAGTANAATAGAGGTTTCCAGGGACTGGGAGTTACTTGATA  
TAGAGTTTCAATTTGTAAGATAAAAAAGTTCTGGATATTGGTTGCACAGCAATATGAAT  
ATACTTAACACTACTGAACTGCACACTTAAAGATGGTTAAGATGGTAAATTTTGTAGGT  
GTTTCTTACCACAATTTAAAAAAGAAATTTAATTAAGGAATTAAAAATTTACAAAAT  
ACTATTCATCATTGNGTTTCCAGTTTATATTCAACCACAGCAGTATTTAGGTATAGTAA  
TTAACTTACTTTCA

Sequence 881

CCCTTTGAGCGGCCCGCCCGGGCAGGTACCACTGCACTCCACCTGGGTGACAGATCAAG  
ACCTGCTCTAAAGAAAAAATTTAAAAAATAAAAAATTTAAGAATTTCTATGCCCTTTA  
CCAGGCCAGCTTAATCAGACTTCTCTAGGCCTAGGACAGGCTTAAGATCAGTTAATTTAA  
AACACTTCTGATGTTTCTTGAGCATTGAAAAGTTTATTCTTTCTGCTTGTTTCAAT  
CTTTTGTGTTTGTCTTTTACTAAGGCTAGAAACACGTATTTGGTTTGGTTATCTGAAGT  
TTAATTGCATTCATTGTGTTTATAGTATTTATCCCTGTAGTGTGGAATTACCAGTCACT  
TACATTCATATTTNAGTTTTTGCCT

Sequence 882

CCCTTTGAGCGGCCCGCCCGGGCAGGTAATTTTCTGAATATTTCCAGGGCACAAGATA  
TTCTTATACAGAAACCTCAGAATGGAAAATAGCTAAGACATAAGCAGTGTTTCACAGAAC  
CATCCATCAGTCTTTTTTAGGATGTAGCAGTCTTCCATGTATCACTTAACCAATCATTAT  
TCTTACCCCATCTTTTTGGGCAGGGGGTGGTAGAATTTAAATTTACCATTACTAAGACA  
GGGTGATAGTAAGCATAGAATTTTGGGATGTCTTTTTTTTCCCTTGCCCTAAACCTTCAGA  
GTTCTGCCAGGTGATTCAAATGTTTAAGATCCATAATCTCGCCTGTGTGCTCAAGCGAA  
CACTAACACTTTAAAAAGTGGGAATGAAAAATCTGAACCTGGTTGAATTAGACACAGTAT  
TTGGCCCCATCTTTCAATTTAG

Sequence 883

CCCTTAGCGGCCCGCCCGGGCAGGTAATTTTAAATAGCCATCTAAAAACATCTCA  
GGTAAAAAATCTGTCCCCTGCATTTGAAACCAAAATTTATTTTCTCACTAAAAACACATT  
TTATTTAATAGTGAGGTGAAATTACATTAGCCCTCTTACATTTATTTGATTCAAACCTT  
TTTTAAAAAATTAGATTCTTTTAAAAAATAAATTAAGAAAAATGACATCATTCATCA

Table 1

GATAGCCAGCTACATGTGTAGTTTGATCATTGATTTAACCGTTTTATCACTGTTGATAT  
GAACATTGAGTACCTCGGCCCGCGACCACGCTAAGGG

Sequence 884

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTGATACATGTAAAGTGCAAGGCACCTTGCTA  
GAGAGCATANGAGCTATACTAAGATATAGAGTCCTGCACAAATCCACAAAATAACATGAA  
TACAAAGTGTCTTAAAGTCATGCCAAATAAACAGANCATATAACTGGGCAGAGGGATG  
GAGAGTCACATGCTGGAGGAGGTGAGCGTTGACATGGTCTTATGGGATATGAACCTTGAGA  
TGTTGAAGTAGAACTGAGACATTTCTGGAAAACCTANATGTATNAACAGAAAGCANGAGGAA  
TAGGAGATGGTTTGGAAAACATCAAGCAGCTCAGTTTCTTGGGGTGGTCCAGGAGAAAAGA  
AGCTCAAACAACATTGAGTGATAACACTTAAAAANNATCAAAAATTT

Sequence 885

CCCTTAGCGTGGTCGCGGCCGAGGTACAATAAACAAGACAGTGCCTGCTTGTGACCAGGG  
GCTGGGCCTCTTCATAGCTCTTTCCCTGCCTTTTGTCTTCAGAGTTGATGCTTCTTA  
CACATTACATTTTTAGAGTTTGTCTATCTTAGAAGCAAGGATCATTTTTAATTGGTTTGT  
TTACTTCAAAGTCCCACTCATCAGAGGCAGNTGTTTCGCTTATATTTGGCTCAACTACTT  
TNTCTGCTTGGTTTGTAACTAATGTTTACTAACATTAATAATGAAACCACTTTTGCAG  
CTAGCATCTATTGACCAAAATATAATTATTTTCAAACCTGTATTTCCAAAATTTAAAC  
ATATTCAATGCTTATTGAACATCTAAACATATANCCTTAATGAATAANGGGAAAATATAA  
CCATCTGGTTTTTGGATCTGAAAGCCACAACCCACCTGCTAGANTANTTTGGGGAAAGGC  
TTTTTANTTTCAAAGTTCAAAGGNTGAATTCTCCCGAGGGNNGNNGGGGNCCTCCCTTCT  
NAACCAGCAANAAAACCTNGCNCAGTTTGGGATTTTGGGNGGAAAAATAAACCNAATGA  
NGCATTTTACTTTCTTTTTT

Sequence 886

CCCTTAGCGTGGTCGCGGCCGAGGTACATATGGCTCGGCAAAGGGGGACTGGATTAATAA  
ATTCTGGTAATATAGTAAGGACAAAATAAATGTAAAAAGATAGAAGTAATGGAGAACA  
TCAACATGAACGCGTCTCCTTTGAGTAGAAAGTAATTTTTCTGCTTTGTCACTCAAATA  
GCTGGCAGACCTGACATCACCTGCCTCTGCTTCCATGCTCTAAAACCTTCTGGGCCTC  
AGATTTGGATGCTAATATGATTTTCACTTAGTGGATAAGAGCTCCCTGGAGAAAGGGCTC  
ATTCTTGGATGGACAACAGAATTAGAGCCTGAGTTCTAAGAGCTTAATAAAACAAAAG

Sequence 887

CCCTTCGAGCGGCCGCCCGGGCAGGTACCCGATGAAAGTTTAAATCTAATCAACAGTATT  
ATGCACTGGTTGAAGAAAACCAGGATTAAGACGGAGGATAGTCAGCATGGAATCTAANAA  
GGGAAAAGTCCGNTAACTATATGTGTTTCATNAGATTCTAAAGCTGTTAAGGGAGAAAGAC  
CCTGAGTCTAATGAATATAAACTTTAAATTTAAAGAAAAACATGNTCTGTTATAGAAAAG  
TGGGCTTTTAAANTTTTGTAAAG

Sequence 888

CCCTTAGCGTGGTCGCGGCCCGAGGTACCATTAACCGTCTTTTAAAAAATTATTATTAGT  
TTCAGTGCTGTTTCTTGAGGGAGCACCGGTGGTGCAGGTCAGGTTTGTCTTCTNAAT

Sequence 889

CCCTTAGCGTGGTCGCGGCCGAGGTACTAAACAGGCCAGATATATTCTCTCATTAACCTA  
TTGCCTAGCAGAGAAGACCAACATTTTTTAAAGTTTATACATATAGTTAATTTCTATTAT  
GATTATATGATACAAATGGAAAGTGCTATGAAATGTGGAACAAAAGAGAATAATCTGTC  
TGAACAGTCAAAGAAGACTTCTGGGAGATGACATCTGAGCTAAAGGTTGAACAAGGAATT  
GGAAAACAGCTGGCATGTGCAAAAGACTTGAANACTGAAGGAGTTAGCCTTTAAAAAAAT  
GAAGAAAGTTCTATTTGGCCAGAGCAGAGTTTCAAATAGTGCCTCACAGGCCACGTTAA  
GACCTGAGGCCTTTATTCTAGGAGAATAGGGAGCTGCTCAAGGAATTTAACTTGANAAGT  
GACAAAGATCAGATTTGCAATTGCCCTTCAAGGTGGTAGGTTACAAGGGAGTTGGGTCTC  
TTGACCCTTTGCAATTATACCCCATTTCTTAACCTAAGAAATGGG

Sequence 890

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTGCCTTGCAAAATTATATTACAAGAAGAAG  
CACACTTGTTATAGAAGTGCTGAATTGTATGGAACCTAAATCTGTCAAGTTACCTGTCTT  
TCAGGTCCGTCTCCCCACCTCCCAGACCTCATTATATTATCCCGAAAAGAACACGATCTC  
TTTAAGGCTAGGCAAGTATTGCGCTGATGAGCCAGGGACTGCCACCAATTGGCAGGCCC  
ATTGGGTGATAAATGTCCAAGGACCTCTAGGCTGACGACACATTTTTCATCATTAAATCCA  
GTCTATTGTAACAGGGCCACTCACATTGATTGCGACTAGGGGGCATCATCTGCTGTAA  
AGAGGGTGATGACTCGCTAAAAATGAGGG

Table 1

## Sequence 891

CCCTTTTCGAGCGGCCGCCCCGGGCAGGTACCACTTCATGGCTAAGCATGTGCGGGATGGAA  
CCGGTCTTCCTGGGCTTACATCTTTGCTTTGCCTCTTCTTTCCTGTGATGAGTCTTGGGG  
TAGGCCTCAAAGGCTGAATCTTCAATATAAAACAGTGAATGAACAACAAATGGTTA  
TTTTAAAGATCTATCTTGGATGGCTATTTAATTTCACTAAACCCAGGTTGCTCACCTGT  
TGACTGGAACAAACAATAGTCCCTTCTTCATGCGGGCATGGTGAGGGTTTTAACCCCGCA  
TTGTCCACAAAGACCGCTTAAATTATAGTAGATGCTCAGCAAATCTGAGCTATTATTTT  
ATCAGACTGTCAGAGGTCAGATCAGGCTTCGGGGTCAGACACACCTGGGTTCAAATCCC  
AGCAGGGCCACTTACTGTTGGAGCCGGGGCAAAGTCAGTTATTCTCCCTGAGGGTCAGTT  
TTCTCATCCCTAAAAATTCC

## Sequence 892

CCCTTCGAGCGGCCGCCCCGGGCAGGTACTACAGAACAGGAACAATCTGCCATGTGTGTTT  
ACAACTTCAGAAAGCCCTGGAATGACAGTTGCCAGGGCAGTTCTTTGAATTTGCAGGTCA  
GAATTAGTGGATGATGAATTTTTTTCACACATGGTCAACTCTGTGCCACCTGCTACAAGA  
TGTTGGAACAGGTATATTTATTTAATGATGATCAATGATTCTTCCAACATCAGGGA  
ACATCAGGGAATCAGCTAGTATATGCTCTTTTTGAGGATTTTCAGTCCAAATCCTGAA  
AGCATTCATGAAACTACATAAATTACTTTTTGTTAAGCAAATCATCATAAGTAAATCCAGT  
CATATGAATCTGGAAGGATTTGCTGGTGGGCACTAACACTGACCACATGTTTCAAGTGTG  
GGCAAGTTTACCATCCATCACGGATTTTGTGCTTGGTGAATTGTAGGGAGTGAAAGAGAG  
AAGGATGTTTGGCCAGTTGTCTTTTTACCTATATCTGAAATTCCTACTTAGTCAAAGA  
ACAAACATTTAGACATTTTCATTTCCCTTTTGGGGTTTTAAGTGATACATGTTTAAAAAT  
TGATATTTTAGAAGAAAATTGTTTTATTATATATAATTTATTAATTCNGGNGGAGA  
AGACCAAAATTTATCCTGAGNAAAANATTTAAATTTGAAGNTTAGGTTGGCTTTTTTAAN  
ACCCNCCGGCCNAACCCCAAC

## Sequence 893

CCCTTTTCGAGCGGCCGCCCCGGGCAGGTACTAGCATTAAAAAGTCCTACAAATTATTAGA  
GAGAAAATACAGGTTGCACGCAAAGCATAAAGAATGAGAATGGCATAAGACATCTTAACA  
GTGCCACAGAACTAAAAAGTAGTTCTGAGTAAAAATGAACTATTTACCCAGCCAAACCG  
TTAATTAGGTATAAAGGTAGAGTTAAGACATTTATAGACATACAAGATATTAAAGATTACT  
GAGTCAATTGATATTCAACAGGGGTGCAAATGGAGAAAAAGTCTTTTCAACAAATAGTGG  
TGGGACAAATGGATAGCCACATGCAAAAGAACATATATATAAGAGCTAAAACCATAATGC  
TTTTAGAAGAAAATATAGGGTTTATCTTCATGACCTTGAATTTGACAAAGGATTCTTGGA  
CATGACACCAAAAGCACATGCAACAAAAGAAAAATTGGAGTGATATG

## Sequence 894

CCCTTAGCGTGGTTCGCGGCCGAGGTACAGGTCACACAGCACATCAGTGGCTACATGTGAG  
CTCAGACCTGGGTCTGCTGCTGTCTGTCTTCCCAATATCCATGACCTTGACTGATGCAGG  
TGTCAGGGATACGTCCATCCCCGTCTGCTGGAGCCCAGAGCACGGAAGCCTGGCCCTC  
CGAGGAGACAGAAAGGAGTGTCTGGACACCATGACGAGAGCTTGGCAGAATAAATAACTTC  
TTTAAACAATTTTACGGCATGAAGAAATCTGGACCAGTTTATTAATGGGATTTCTGCCA  
CAAACCTTGGAAGAATCACATCATC

## Sequence 895

CCCTTAGCGTGGTTCGCGGCCGAGGTACAGGTCACACAGCACATCAGTGGCTACATGTGAG  
CTCAGACCTGGGTCTGCTGCTGTCTGTCTTCCCAATATCCATGACCTTGACTGATGCAGG  
TGTCAGGGATACGTCCATCCCCGTCTGCTGGAGCCCAGAGCACGGAAGCCTGGCCCTC  
CGAGGAGACAGAAAGGAGTGTCTGGACACCATGACGAGAGCTTGGCAGAATAAATAACTTC  
TTTAAACAATTTTACGGCATGAAGAAATCTGGACCAGTTTATTAATGGGATTTCTGCCA  
CAAACCTTGGAAGAATCACATCATC

## Sequence 896

CCCTTAGCGTGGTTCGCGGCCGAGGTACCTTGAGCTGCCTCAGCACTCTTTTGCCATTTCGTG  
CTAGAAACAGCCAAAGCCAGACAACCAAATTACAGATGCTTAAATGTTAATGCCAGACAC  
CAAGGCTCCGTGAACCTTCCCTGTTGAACATCTGACCCCGACTACTTGAGGACATGAAACC  
TAACTGTGCAGCTAATTACACCTTCCAAGGGCAATGACATCGGGTCCTATGATTTTATTC  
AGGAAAGCAATAAGGCAATCGGGGTCACTGTGAACATCATTTGAAGGGAAGTAACTTCT  
AGCTTTATTCACAAATGGTCTAT

## Sequence 897

CCCTTAGCGTGGTTCGCGGCCGAGGTACCGGTGTAGTGTATAGAATGGTTTGTATCAAAC

Table 1

AGATCTACATTACTTTACTAGAAATATAGGGCAATAATAAAATTTCCAAAGCCAAACTGA  
ACGATAATATATATTTCTTTAGAAAGTCTCAGAAAACCCATTCTGAATGACAAAACGGA  
GAGATAACTTACAACCTAGGTGATATCTGAAGTTAAATTTTCTTGGTTATCTATTTCAAAA  
ATTCACTAACTATTCTGCACTAAAATGTTTCACTGGGTCAGGCACAGTGGCTCATGCCTGT  
AATCCCAACACGTTGGCAACCTGAGGCAAGAGG

Sequence 898  
CCCCCTTCGAGCGGCCCGCCCGGGCAGGGTACCNCGGGGTNGGACTCTNTGGTTTTTNAAA  
ACCTTATGAACCATTAACTTGGAACCCCGGCAAAANTAAGCCTNNGGGGGGCTTGAGGGG  
ACTTTTANGANNNAACNNTTAAACATTTGGTNTNNTTNAAAAAAAAAATTNCAGGGTTTN  
CCGTNCCTTTTCCAAAGGGGGGAAAAANGCNCNAACNTTTTTTTTTTTTTTTTTTC

Sequence 899  
CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACTGACAGATGCCTGGGTAACCATGTCCAATGT  
TCAATTTACTTTCTGCTGGACAGATAGAAGGCTCTCCTGCAGCCTTTTCGTCTTCGGGTG  
TCCGCTGGTAAGAAATCCGCCACACAAGAAAGCACTGACATTTGGAGCCTCATCAGGTTT  
AGAGTTGAAAGTGAAATAAAGGATAATAATCTTTGTCTTATTTTCTTTGTTTAAATGTTT  
CCCAACTTACGTTAGGACAATGTCAACAAAGACAGATGTCCCTAATAGTAATTGCAGGAC  
ATGTGTTTTCTCATTCTATC

Sequence 900  
CCCTTTGAGCGGCCCGCCCGGGCAGGTACATTGGAGGGGGCCATATCCAGGACCTGTGATG  
TGTATAGGCAGACCAGACTGGTAGGGAAGAAAAGCAGAGATATCAAGTGGGGGACATGTG  
TTTGCCCTGGGGCTCTATTGGCCTGGAATTTTGTGGTAGGAGGAAGGCACAAAAAGTAGA  
CTGGGATTACAGGCGTGTGCCACCGCGCCCGCCTAAAGTGTGTTTTATAATAAACCTC  
AATCTGAAACATTTTAAATAAACCTTTAGATGACTAGATTTATGTTTATTTTGATTAT  
GTTTATATGAATAAAAAAAGAAAAAAGACGAG

Sequence 901  
CCCTTAGCGTGGTCGCGGCCGAGGTACCTATGAGATGCATTTGAAAACCTTACCTTGTTTA  
TATGTTTCTTCTGTTGCAATTTCTTCCATTACCTGGGAATAGCTGCTTTGGACGGCAAAC  
CAAGCAATGCCCTTTCACAGCTGTGGGATGAATGGGGAAGAAGTCTTGGAAGGAAGCA  
ATTCAAGAGAACATGGGAGCATCTCATGGCAGCAGTCACAATTTTGTGTTGCGTAATATTT  
CAGGAACCTTGCAACCCTGATAACTTGTGCCTGCCTGTCTGTAGGCCTTAATGATGTTTT  
ATTGAATTTTGG

Sequence 902  
CCCTTAGCGTGGTCGCGGCCGAGGTACTTCTATACAAGGCCAAATGAACTCTAAGTAAAA  
AAGAAAATCACACTTCTAAACACAAATTAACCATTTTCACTATTTAATTGCTCCTAAAAAGG  
TGTATTCTACTTCATTAAATGTAAGAGAAAAGGTTACCTACATTACGCAGTTTAAAGAAAC  
AGGATAAACTTTAGCATATAAACCACTCTTGATTACAATTTCACTTTCAACCATCTTA  
TTTATACCTCTACATTAGATAATCTTTAAATTTCCATCATAAGGTTTTCCCATGGTTAAC  
CTNCCATATAAAATTTTGGTAATCCTGCC

Sequence 903  
CCCTTAGCGTGGTCGCGGCCGAGGTACTGGGTGACAGGAGAGAGCTCATGTGACCCGAGT  
CTGGGTGGTCTCAGGCATGGTATAAAGAACTAGGCCAACCACCTGCACTAGACATAGAAA  
CTAGCTGAATAAACTCATCCACTCCGATTTTCAATTCAGGTATCTCATGAGAACTAGAGG  
ACAAAAACAATTCCAAAATTAACAAAAACAAAGTTTACTCTAGCCATCAGTGCCAATGAAC  
ATAAATGACTGCCTGAGAGTTATATTAACAAAATAATTAATTGAGACGAATTAAGGAATT  
AAACCAGCTATGGGAAATATACACTCTATACTTAGATGCACATT

Sequence 904  
CCCTTTTCGAGCGGCCCGCCCGGGCAGGNACTTAAATAAAATAAAATTAACAAATCATTT  
TAGAGATAAAGAGTGAAAGTTACTAGAAAAAGGTGACTAGGACTCTGTTTATGAAGAAAGG  
TTAGTATTTAAATCATGAAAAAAGTAAGAATACTTAATTATTCAAGTAACCTAAAATTG  
TAATTGAGAATGGCTTTTATGTATCTAAACAATCTGGGCTGCTATAAAAAATTCAGTCAA  
CTTCTAAACTTCCAAACACAAAAATAGTTATACTCAGTCTAAGAATATCCGACCTACCGTG  
CAGGACCAGAGGGCTCATCTC

Sequence 905  
CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACTTAAATAAAATAAAATTAACAAATCATTT  
TTAGAGATAAAGAGTGAAAGTTACTGGAAAAAGGTGACTAGGGACTCTGTTTATGAAGAAA  
GGTTAGTATTTAAATCATGAAAAAAGTAAGAATACTTAATTATTCAAGTAACCTAAAAT

Table 1

TGTAATTCAGAATGGCTTTTATGTATCTAAAACAATCTGGGGCTGCTATAAAAATTCAG  
TCAACTTCTAACTTCCAAACACAAAATAGTTATACTCAGTCTAAGAATATCCGACCTAC  
CGTGCAGGACCAGAGGGCTCATCTCTTGCCGAGCTTAATACAGTTT

Sequence 906

CCCTTAGCGTGGTCGCGGCCGAGGTACCTTTGCTTTAAATGCATACTAAGCTGTGAATGA  
CTGATATCAGAGACTTTCTTGAAAGTAGGTTTCATAGGATGGAGGACAAATGAACTTTTA  
TGGGCGAAGAAAGAAGGGTCAGTTGGGTGGTGCATTGAAATAAGTGGTTCCAAAAGCAAA  
CTAGGTCAACTTTTAACTGGCTAGTGAAAATGAGATTCTCAGGATACAAAAGCAAGGA  
GAAGACAGGAATAAATCAGGACTCCAACAGGCAGAACAGGATTTATTTAGGGCATGCAAT  
GTGGAGGGCCCTAATGGGAACATGACAGTGT

Sequence 907

CCCTTAGCGTGGTCGCGGCCGAGGTACAAATTGCATTGTCAATTTATATTTGTTTCCCCA  
CTAAAGCCTCCAAACCTTGCTTGTTTTGTTAAGTATCCCTGGGGCTCATCACAGGGCCT  
GTTGAAGTTCTTTTGAATGAATTGAAGAATGTGAATAATAGTTCTAGTTCTTCGGGATA  
ATGGAAAGCTAATAAGGTTTATGCTAGAGGCTCTTACTGCTGGGACTCTCTTCTGTTTT  
TGGTTTTTAGGAAAAAGCTAGAAAATCCAACCTCAGCTAGAGTAACAGTAGTAAGTAC  
TTGAAAGTATGTCAAAACAAAACCTGTTAA

Sequence 908

CCCTTAGCGTGGTCGCGGCCGAGGTACCTATGAGATGCATTTGAAAACCTTACCTTGTTTTA  
TATGTTTCTTCTGTTGCAATTTCTTCCATTACCTGGAATAGCTGCTTTGGACGGCAAACC  
AAGCAATGCCCTTTACAGCTGTGGGATGAATGGGGAAAGAAGTCTTGGTAAGGAAGCAA  
TTCAGAGAACATGGAAGCATCTCATGGCAGCAGTCACAATTTTGTGTTGCGTAATATTTT  
AGGAACTTGCAACCCTGATAACTTGTGCCTGCCTGTCTGTAGGCCTTTAATGATGTTTTA  
TTGAATTTTGGT

Sequence 909

CCCTTCGAGCGGCCGCGCCGGGCAGGTACCCTCTTCTCAATTTTGCTATGAACTTAAACCT  
GCTCTTAAAAAATATTTTTTTTAAAAAGGAGGGNGTTATTATCAGAGATCCCATAGAC  
CTTAAAGGATAATGAAAGAATGCTATGGGATAACCTTCATGCTAAAACTTCAACAACCT  
AGAAGTATGAAATGAATGAACNTCTCCAAAAAATACAAGTTACCAAAATTTGACATGA  
ATAATAACAGAAAATNTNGANTAACGCTCTAACTATTAAGGAACGTGAAGTTTGTCAA  
AGCTTCCCCAAAAATAAAATTCAGGACCAGATGG

Sequence 910

CCCTTCGAGCGGCCGCGCCGGGCAGGTACTCAATGGGGTAGGGTGTCTTGGGATCTGACT  
GTTTCTTAGACCTTCAATGCTTCTTGGCTTTCTCTCACTGCTAGTTATAATTCAGTTTTCT  
CAGGTCTAAGTCATTCATCACTCTTTGTCTGCTTTTCAGCTTCCAAAAATTCATTGCTA  
TTATCTCCTCTCCTGTTTTCCCTATTGGTGTGTTGTNTCTTTTTCTTTAAAAAATTC  
TTTGTGG

Sequence 911

CCCTTAGCGTGGTCGCGGCCGAGGTACAACCTAGCCAGCTGCACAGCAGCTCTCCAAGAA  
AAAGGTGTATATTAGACAGATTCAATTATTCATCTTGTGATTATGAGTAGTAACCAAATT  
GTCTATGTAATTTTCTTATGGTGAACACCCAAAGCAAGGCCTCACCTTAGGCTACCAGC  
TTGACTCTTAAGTGGACAGAAAGAGCCAAAGGCTAAAAGGTTTGTGAGAAACCTCATGAG  
CACTGAGTGTCTAGTTCCAGATGAAAACCGTTTCAGGTATGAAGCAAGAGGGAGTGCT  
AATTGGTAGAAGTAATTACATCTT

Sequence 912

CCCTTAGCGGCCGCGCCGGGCAGGTACAACAGAGCACAAATGCTTAGATTTGGGTGGATTG  
AATAAGATGAAAGATAAATTATGATTTTGTTCAGTGTTAAAAATAAACTAAGACACTTA  
AGGACCACAAAAATTTAGACCAAAGTATCTTGTAATTCACCTGGTGAAAGTTTGATAT  
AGCACACATATGACTTTTCTATATTATTTCTGTTTTGAGTTTAGTAGTAAGCAGATGGT  
TTGTATTTTCTTAGTTGCAACTAAGTGATCAGTTTCATGATTTCTTACTATGAAACA  
TTTTTTTTTTTTCTTAACAGTTATCTT

Sequence 913

CCCTTCGAGCGGCCGCGCTGGGCAGGTACCACAAAGTTATTGCCTACATCCAGGTCAAGA  
AGATCTTCTACTGTATTTTCTTCTAAGAGCTTTTACATATAGGTCAATGATCAATCTAAA  
ATTAAGAGTTGTGCAATCATTAACTCTAGCTTTAGACTGGTATACTAATTGGTTTGATA  
CGAACTGGGTAAAGGCATAGGACACATGCAGGCTGTGTTCAATTCACAGCAGGGCTCTG

Table 1

TAATTAGGCAATAATTACTTACCATCATACCTAGTGAGGCAATATGGGAGAAACAAAACA  
GGCCATACAGCTTCACTATTATTCCTACT  
Sequence 914  
NNCACCCCTAGCGTGGNCGCGGCCGAGGTACTTGAGGACCAAGCCACAGAGCAAGCGCTA  
AAAAAAAAGTTAACTAGAACCTTACCACNTTNCACGCACCCCAATTNCATAAAATGTAT  
CAGNAAAAAACAATNATCTAAAGANAAAAAGNAAAGAAAAANNATNNANCACATAG  
GNAACNNGGTGTCAACTAGGNAACNGACCTATANNAANNAGGAAGANAGNGNCTNCCTT  
CCTCAATNNNCAGANNNACGGAGGGGAGGCTCAAAAGGCCCGAGAGGCTCNCTACAAGGA  
GAAAG  
Sequence 915  
CCCTTAGCGTGGTTCGCGGCCGAGGTACCAGAAATGGTAAATATATGAGTAAATATAACAC  
ACTTTTTCTTTTAAATTTTATTTAAAGGTAACACTTTGCAGCAAAATAATTAACAAT  
GTATTGTGGGTATATAGTAGTAAGATGTTTGACATAAATTACATAAATAATTGGAGCAG  
GGAAATAGAAAGTGTGTTGTTGAAATGGTTTGATATTATATATGAAGTGGTATATTATTAT  
TTCAAGGTAGCCTTGATAAGTTAAAGGTTACATATTGNAACCCTACAATAATCATTACA  
AAATAAAGAGATATAACAGNAAG  
Sequence 916  
CCCTTAGCGTGGTTCGCGGCCGAGGTACTTCATAGAGGTCCAGACCCCTTGCGTCTGGCAT  
TCCTTTGGTCTATAATTCAGTAACTCTGCTAAAAAGGAAACGAGACTAGCTTGCTGTGG  
CCCCTTAAGCGACCCAGGGTAGCTTGTTGATGGTTCAGATTATGATTTGTTCTAGAGCTTT  
TCCAGAGGCAGATGTTGAGGAGTTTATCCTATTTGNCCCCNCCCTTTAAACAAACAAAA  
GTGCCGGCTGGACGCANTGGCTCATGCTGGTAATCCANCNTTNTGAGAGGCTNAGGCAG  
GCGG  
Sequence 917  
CCCTTTGAGCGGGCCGCCCGGGCAGGTACTGCCTGGCATGCATCTTCTCGATGGTCTGTT  
ATCTTGTTGGGAATGACATTCGTTAAGTTGTTTTCTGTGTGCATCCACCCAAATAAAGAA  
TGTTTCATCAGCAAAAGTGAATTGCCGTATAGTCATCAGACTCTAGAAATAAATTATCAAC  
GATGACTGCAGTGGGTGAGGCTGTTGTTTATCACATCACTTGAGAACAGAGTAAAGTGA  
GTTTCATATTTTCTGAGTCTTGAATTCTCATTTAGACATCTGTTTCAAGGCTTTCTAA  
GCCATGGAGTATTCTAAATGAGC  
Sequence 918  
CCCTTAGCGTGGTTCGCGGCCGAGGTACTACAATTATAAAGTTACCAATAACTTTACATTA  
AGAAATCATTTTTCTTCCCTTGAAAACAAAGTATGTCCTCACTTCCCTGCTCTTTAT  
TCATGGCAGTATGAAATGTGTCCTGATTCCCTCCGACCTGCCACAGAATCTGAAACAG  
TGCCCGTGGGAAGAAATACCAGATGGTATGTCATATGGCTTTGGGAACAGCTTTTCAGCAGT  
GGTCACTTGCTTTTTTTAATGCATTTCAAATGTGTTTGGTTAGCAAAAAATAATGAGA  
TAATTCCTCAAATAAATG  
Sequence 919  
CCCTTAGCGTGGTTCGCGGCCGAGGTACAACAATTTATCCATTCCCTTAGCAATAGTTGGA  
CACTTAGAATGTAAACTGTTCAAACAAATTGGTATATTGGAGTTTGGGTAGAAAGAAGG  
GCCGTTGGAAGAGGAGGAAAGAGGGTGAGATGATACATTAATATAAATTACTGAAAGGT  
GGTGTTACATTTAGAATTTTTTTTTAAGTTGCATGTTTAGGATTTAGTGCTCAGGAG  
GAAAGAAGGCCAGTGTGTCCTTCCAGACCATCGCTGCCATTCCTGTAAATATATCGTG  
TGTAAGGAACCTAATGCCTGCA  
Sequence 920  
CCCTTAGCGTGGTTCGCGGCCGAGGTACTCGCTATTTCTAGTTCAAAATCACAGATTTTCA  
GATTGAAAAAATTTCAATCCACTTATTTTTCAAATGAGATAACTGGGACAAAGAGAAATT  
CCATGACTTGCCCAAGATTACCTACAGTTTAACTGTCAGCGGGGCTTAAACCACAATCC  
ACATCTCCTGACTCCCAATCCTTTCACTTAAACAAACAAGCAAAACAAACAAAAAGATT  
CTAATAAAGTGGAATAATTNTAAGAAAGGCAAGTATCACTATTTTAC  
Sequence 921  
CCCTTAGCGTGGTTCGCGGCCGAGGTACTCACATGTAAACTTCTACTTTCCCTTCAGATT  
ACAGCAACCATCATGCCAAAGCTATACACTCTCAGGGAATCCCTGTGGATTTCACTGATG  
ACCACTTGACCAACTATCATAAAGATCAAGGCCAGGGGTTCTCAAACCTCAACATTTGT  
GTGCTCATCTCCCTTACCCAGAGACTCCCCAGGGCTGCTGGGCCACACTTTGGTTTGT  
TTGACTGGAACATAGTTTGAAAGGGATGGAATTTCCAAAAGGTGTTAATAGACACATAA

Table 1

AGATTTTAAATATTAATAAAAAAGAAAAAGAAAGA

Sequence 922

CCCTTAGCGTGGTCGCGGCCGAGGTACATACAGTATGCACTCCCTTCTCTGTGTTTTTG  
TCTGAGTTGATGATTTGGAGCTCAAAGAGCTAGCGGAGGGAAAAAGCTGAAGCCATTCAAA  
CACATAATGAGAATTGGAGATGTAAAGAAGGCTGAGTTCTAGGAGTTGCAACAACTTAG  
GAGATAACAGAACCAATTCGGAATGAGCAGGAATTGTAGGAATGCAGGCCGAGGACTAGAA  
GAATCAGCTACATGCTGTTTACTGGCAAAGCAGGAGAAATGTGACTGAGGACAGTATGCC  
ACTGAAAAC TGATGAAAGAGGAGGGAGACAGGAGG

Sequence 923

CCCTTAGCGTGGTCGCGGCCGAGGTACTGTTGTCTCATGCTCTCTTTCTGTTAATAGCAC  
CTCAATTCTACTCTGGGGGACATTCTCTCTCTTTTGGTCTGGAATGTCCCCTGGCTT  
CAGGGACAGCTCAACATGGGCCTGGACAGTCAAATCCATCCCCAAGCTTGGGACTCAGG  
GAGACCATCCAGTGACTTGTCTGAAGTGCTGGGAAGGCAGAGCNTCCTTCTGCGGGG  
TGCTGAGTGATGGGACGACAGNGTGGAGCTACTGNGCTCTCAAGCCGGNGCCAGGACC  
AGCCTGCCTGAGAACGAAGCCAGC

Sequence 924

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTGCCCTGCAAAATTATATTACAAGAAGAAG  
CACACTTGTATAGAAGTGCTGAATTGTATGGAACCTAAATCTGTCAAGTTACCTGTCTT  
TCAGGTCCGTCTCCCCACCTCCCAGACCTCATTATATTATCCCGAAAAGAACACGATCTC  
TTTAAGGCTAGGCAAGTATTGCGCTGATGAGCCAGGGACTGCCACCAATTGGCAGGCCC  
ATTGGGTGATAAATGTCCAAGGACCTCTAGGCTGACGACACATTTTCATCATTAAATCCA  
GCCTATTGTAAACCAGGGCCACTCACATTGAT

Sequence 925

CCCTTAGCGTGGTCGCGGCCCGAGGTACCTACTGTGTTGAGCCCTCTTCCATCTCCTGTA  
GTTTCGTCAGATCCTAGGAAGTGCCCTGACGGAGAAGTTTACAAAATGAACTTCAAC  
TGAAGTATCCCGATTGAAACGGAGATCTAAAGATCTGAATTGCCCTTATCCCAGAAAAAG  
ACTTGTGAAATCTGAAAGTTCAGAGTCTCTTCTTCTCAGACAANTGGTAATAGTAATCA  
CTATCATCATCATGTGACATCCANAAAGCCACAAACAGAGCGGTCCTTACCAGTGACTTG  
TCCATTGGTTCCAATTCCTAGC

Sequence 926

CCCTTAGCGTGGTCGCGGCCGAGGTACCCAAACACAAGATTGCTAATAGACTGCTAATAA  
TAGAACTTAATAAATGAAATAATTTATTTTCAATTTATTGTTGCTTGGAAATACAGAAAAGTGC  
TTAGTAAATATTGAATGAATCAACAAAGTACCTCCCAATATAGAGAAATCACTTCTGAAA  
AGGATAAAACCAAGTTGATCCTATTCAATCAAGGCACTTTTGGGGCTGTTACAGTTAT  
TTCTTTATTTGAAGAAGGAATATGATATACCTACTTTGTTCCAAGTCACTGCTTATAAT  
GTGCTAATGGTACCT

Sequence 927

CCCTTAGCGTGGTCGCGGCCGAGGTACCTGTGAAGACAGCTACACCTGGTTTCCTCCCTC  
ATGCCTTGATCCCCAGAACTGCTACCTTCACACGGCTGGAGCACTCCCAAGCTGTGAATG  
TCATCTCAACAACCTCAGCCAGAGTGTCATTTCTGTGAGAGAACAAAGATTTGGGGCAC  
TTTCAAAATTAATGAAAGGTTTACAAATGACCTTTTGAATTCATCTTCTGCTATATACTC  
CAAATATGCAAAATGGAATTGAAATTCAACTTAAAAAGCATATGAAAGAATTCAAGGTTT  
TGAGTCGGTTCAAGTCAACCAATTCGAA

Sequence 928

CCCTTAGCGTGGTCGCGGCCGAGGTACAAGAAAGAAAACAAATACCAAGTATTTACAGAT  
CCAGAGAAAAGTTCACAAGAATGGGAGGATGCCAGTCCAATGCTTTGTAAAGTCAAAAAT  
AGCCACATTGCAAAACAAACAAAAAAGACGAGAACGTTCCCGAGTGTGCCTCCAAAAACA  
TAAAGGAGAAAATCATACAGAAAAACCTCATGTAAGGGTTGGAAGTGTGAGCAACCAGCTA  
TCCAAATACAGAGGGGAATCCTCGCTTAGCTAGGGCATGGCCTGAGAGAAGCCCTTCTCT  
GCTTTCAGAGCCTACAAGTAGTCCCCA

Sequence 929

CCCTTAGCGTGGTCGCGGCCGAGGTACTTAAGCAATAAATCTGAGCAATTATCAGGTTAT  
TTTATTGCATTTCTAATGAGTTCTTCTAAAAAAGTCAATCAATTATCACTGCTATATAT  
GTTCTGTGTGAAGGAGTGCTTGAGAGTCTTTAATTGTAACATTTATTAATAAGAATAA  
GAGGACATTTTTAAAGGAATTAAGGAACATTAATTCCTTCATAAATGTATAGTGCTTAA  
GCTCTGCTTTAAAGGTCTTTCCATGTGCTCTTGGGTAACCACTTAGGGCTGAATTCATA

Table 1

GTATAAATATCAATAAATGTTGCAATCACAA

Sequence 930

CCCTTAGCGTGGTCNCGGCCGAGGTACGCGGGTGGGAAAGGGAGGATGACTCACTTACTC  
TGAAATCTGGGCCCAGGAAGGACCTCTCCCATCCTTGGAGCCTCCTCATTCTCCTGTCTC  
TCACNNGTCCCCCACCTCTACCATGATGTCCTCATTCTGGGAACCCCGAGCAGGGATAG  
TGGCTTGGGCCCCTTCTGCTTTTCTCCCCACNCTTTGCTCCACTTCTAACATTTTTC  
TNCCTTCATCTNACATGAAAGGGACAANGGGTTAACCCCAAGNAGGGAGGGCAGAAAACA  
ANGNNCCCCACATCCTGGCTNTGCCTTCTGAC

Sequence 931

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACGCAGGGATTTANAGACAGGGTCTGGCTCTTT  
TGCCAGGCTGGAGTGCAGTGAACAATCATGGCTCACTGCAGCCTCACCTCCTGGGGCT  
CAAGAGATCCTNCCACCTCAGTCTCCCTAATAGGTAGAACTACAGGTGCACACCACCACG  
CCTGGCTAATTTAAAAATTTTTTATAGANACAAGGTCTCACTATGTTGCCACACTGG  
TAAAGTATTTTAAATTTGAGACATGAATAATGATGCAAATCATCCTTTNTATGGGTCTG  
ATTCTGTTCTGTTACCTTATTCAAGGACTAA

Sequence 932

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTGNAT  
TTTTAGTAAACACGGGTTTTCGCCGTGTTAGTCAGGATGGTCTCCATCTCCTGACCTCCT  
GATCATCCGCCTTGGCCTCCCAAGTGCTGGAATTACAGGCATGAGCCACCGTATNTGGCC  
ANANAAATTTTTAATATAAATTTTTTCAGTTACCCTTAAAGGGAAATATGATTAAAAA  
AACTAAATAAAGAAGAGCTTTAGTAAAACCATGCCCTCTTGCTAATCTATTAANAGTCAA  
ATCTGAA

Sequence 933

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACAGTATGTTTCCACTTATGGACAGATAATTAC  
GTAGTAAACATAGAAACACACGAAGTAAAGGACACACACCAGTATCAGAACTAAGTCAC  
CCATGGGGAGGGACAGAAAGGAATAGGATGGAAGGGGTTGAGGGACTTCAACTGTATT  
GTGATGTTTTAGTCTTTAAAAACAAAATCTAAATGACATTTGAAATATGAAACAAACGC  
AGAAAACATCAAAATGTCAACAATACTTAAACCTGAGTGTTGGGTGCCTGAATGTTATAT  
TGGTCTCTGCA

Sequence 934

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACCCAGTATATGAGCAATTGCTCAGCAGTGTTT  
GGATATAGGGAGTGGATAGCTATTATTAATTGCAGATTATTTTGAAGGAAAAACACACA  
GAGAATTATGTATCTTTCAGTGTAATGTTAGTTCTAAAAACAATCATATTATTTACAAA  
GCTGCAGTTATAGAACACAATTTCTGATTTCTGCCTCACCCCCACGGTTAATACTGTAAAA  
CATTTCTACGTTTCATCTGATAGTGTTATTAATAAGCTGTTATTTTAAATAGCTATA  
CTAAACATAAAAATGTTTAGGCCAGGCGT

Sequence 935

CCCTTAGCGTGGTCGCGGCCGAGGTACCTAATTCATAAGATAAGGATTAAATGAATTAA  
ATATATAAATCCCTTAGATAACAATGCTAGGCATATGTTAAGCACTATGTTAGTATCATC  
AATGTTGTTGTTACTGTTATGGAATTTATCACAAATATGTAATTATATGTTTCGTAGTG  
ATTATTCATCACCCCTACTGGACTCTAAGGTCTGTGAGGATATGTCTATTTGGTTTACCA  
CTGTATCCTCAACAACTGCTGGTTGTCCCTATTGTAGGTGTTAGGTATTAAGTGCATGAT  
AGTGAATACATAAAGGTT

Sequence 936

CCCTTAGCGTGGTCGCGGCCGAGGTACTACAGATTAAGTATTAATATGCTGTGAGTGACG  
ATAGAGAACAGAAACAGGCTGTTTGATTTACCATGGTCAATGCTCTGATGTGCCAAACA  
CAGGAGGTTGTGGGAACATATAGACAGTGACCAAACCTTTAATGAATACAGGAAGATTTT  
CTGGAAGATGACATGTAGCAGACAGCTGACAGACGAGTTTACCAGGTTCCAGAACTTAA  
GTGATAAATAATCTTTTATCATAAAAATTTAAGTGTGGTAGAGAATAAAAGTTTGAATT  
AAATGTTGAATGAAATGTGTTAT

Sequence 937

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACACTAAAAATAGAATATAAGGCAGTGAAATCA  
AATCCTGGCTCACTTGAAGAAATAACAGTCTGTGGGCAACTNNGTTGTTTCTCAGGTCAC  
CTCAGGGGACAGATGGTCCCTAAGGTGCAAAAGAACTGAGTGGTCTGATATATGACTGA  
TAAGTTTCTGTAACGGGCCACTGACCATTTCAATTCCCAAGGAACATAAATTACCTTTTA  
GCCTGTGTATTTACACACAAATATGCAACCTGCAAACTTCTTCTGAGGACAGATGTCAAC



Table 1

TACTTTTTCATTTTTTTTTTACAGTCAAA

Sequence 938

CCCTTAGCGTGGTCGCGGCCGAGGTACCAAGTATACTTCACCAGATATCTATAGAACATT  
CCACTCAGCAACAGCAGAATCCAGCAGAATATATATTCTTCTGAAGTGATGTGGAACAT  
TCTCCGGGATAGACCATATGTTAAGTCATAAAACGAGTTTCAATAAATTTAAAGGACTG  
ATATCATACCAAGTATGCTCTCTGACCAGAATGGAATGAAATTAGAAATCAATAACAGAA  
GAAAATTTGGGAAATTCACAAATATGTAGAAATTAACCAACTCCTTAACAACAG  
TGGGTCAGAAAAGAAATCACAAGG

Sequence 939

CTTCCATACTCTTTAATTGGATATGCCAGTGTGTNTCANTAATTTCCAGTGGCTGTAAA  
ACTTTGAGAAATTTGTAGCTTTTAGAAACACATACCTGTATTGCCTGATTGCTTATTA  
AGTGATCTCTTAGAGGTTTCCAAAGTTATGAGTTTGAGTTTACAAGTGCAGTTTTTTCC  
ATGAAAATTTCAAGTGGTGACAAATATAGAAATTTATCATTCAATTCAGTCTTAACTAGAA  
ATAATTGCATATAATAAACAGGTTCTTGACTGTTCTTTT

Sequence 940

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTGCCACTTCCATTTTGTAAAGTGAAGCCCAGA  
GAAGCAAAGAAATGTGCCCTAGGTCACATAGCTAGTCGGTGGCAGAGCTGTGATTGGCAG  
GTTGGTCGAATGCCTCCAAAGCCCTCGACCTTCCCACTATACTTCACGCATCTCTAGAGA  
AGAGACAGAAGTAGCCAGGATGAAGGTCTTCAGGTTTAAGAAGAAGTATGAAAAAGCAAA  
AGATTTTTGTTTTCGTGGTTTTTTTACTATAAAGGAAAACTTTAAATAATAGCAAGAGTG  
CTATAGGTAAGATATCAGA

Sequence 941

CCCTTAGCGTGGTCGCGGCCGAGGTACCTCGTGGTTGAACTTATTTGGGGACAGAATTGA  
GACGGAAAAATTTGATATCAAAGGAAGTATCAAAACCTTGATGTGGTTAAGAGCATGGA  
TAGTGAACTAACCTCTGATGTATGGTGAGAGAGCAAAAGAGAAAGGATTGCAAGAAAC  
TGGAATGTAGAGGATGAACATATTGGTAATAATACTGGTGGAAATTGTTATTCAGGAA  
AAAATAGCAATTATTCTGTTTCATATCTCAATCATTGTATGTTGTTTATTTAAAGGGAG  
ACATGGTAGAAGATATCAATATAAAAA

Sequence 942

CCCTTAGCGTGGTCGCGGCCGAGGTACATGAAAATGGCTGTTTTTCCCACATTAGTCAG  
CTCTGGATTTTGCATGTGTGGGGCTTTTTTTTTGATAGTTATTTGTTTTTATTTTAAAA  
ATTTATTTTGCCAACCCAGTAGAGAACAGCTGAGCATCTTCTCATGTATTTATTGGCCAT  
CTGCATTTCTGCTGCTTATTGGCCATGTATTTATTGGCCATTTGCCGTCTGCTGTGAAAT  
GTCTTAAATTTTTTGCCCATTTTTCTAGTGATAAAACACTGAAGCACATTTTAAAGACT  
TCTGATGATTTTATTGT

Sequence 943

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTCAGGAGATACATTCTGCTAGTTTGGGGTG  
GTGTGTTCTATAAATGTCAATTTAATCCAGTCGGCTTATGATTTTCAGTTCTATATTCTT  
ACTGATTAATGTGTATATACTAGTTCTGTTACTAAGGAGGGATGTTAAATTAATCCCTAG  
CTGTAATTGTGCATTAGTTTGTCTCTTTTCAGCTGTTCTAGCTTCATAAATTTTGGAGC  
TGTTAGGTGCATATACGTTTAGGATTATTTGTCTTCTTGGTGAAGTACCTTTTATCA  
TTAGGAAAC

Sequence 944

CCCTTAGCGTGGTCGCGGCCGAGGTACAAAAATCAACTTTCCTTTTTACTATCTGGAAAT  
AGGAAAATGTTCCATTCACTATGGTGACAAAATGTAAAATAGGAATATATTTCTGAGGA  
AAGTATAGGTATTTACAAATAGATAAACTATATTCTTAGATGAGAATACTTAATACCCAC  
TTTACAAAATTAATAATGAATTACAGCTTTTTAAAAATAGATTAAAGCTGGGTGTGATGAC  
ATGGCACCTATAGTCACAGCTACTCAGAAAGGCTGAGGCAGGAGAGACCTGAGCCCAGG  
AGTTTGAGGCTCTAGTGAGCTAT

Sequence 945

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTGCAAGTCCAAAGAGGACCAGGAGGATCCC  
CGCCAAAAGAAAGGGTAATCGATGGGACACCAAAGTTATCAGTCAAGTAAGGCAGAAATGC  
TTGAATGAATAAATGTATATAGATAGAAAGTAGAGACCTTGATAAAGTCAAACCTCTTGC  
CTTTACAAGTGTGTGTTTCAGCAGCCATGCAAGGGAGATGCCCATCTGGCAGTGGCCCAGG  
GCAAGGTGTGAGAGCCCTAGTGGCAGGGAGATGGCATCCACATATGAGGGAGGGTGACAT  
GGTGCTAACTGGGCATCTACATAGGGCAGGG

Table 1

## Sequence 946

CCCTTTGAGCGGCCGCCCGGGCAGGTAAGTATGATATTTAATGAATTATTTTATAAATTGC  
TGTTGTGAAGCATTGTGAATGACCTGCCTCCTAGCTTTCAATGCTATTGCCAGGCTNG  
ACTTTTATTGCAACTGTTTTATGATACAGTTTTGCATTGTATGTGTTTACTTTTTAAAGA  
AGCATTTCCTGGGAGGTTTCTTTTTCTGGTTATGAAAATAATATATGCTTATGGGGAAAA  
ATTGGAAAATAGAAACNAGTATCTAGAAGAAAAATCACTCATAATCCANCACCCTGTTA  
ATACTTTGTCTTTTCTTACAGTTTCTAATA

## Sequence 947

CCCTTAGCGTGGTCGCGGCCGAGGTACCAGTAGATGAGAACTACTTATTTAGAGTGGCAG  
AGCATGCTATAGAAACAAAATATGAGTAATCTAACTGTAGTTATGTTATATTAGCATAG  
TGAGATAGTAACATTAATAGAATTCCTTAGGTGGAATTTCTTTAATGC

## Sequence 948

CCCTTTGAGCGGCCGCCCGGGCAGGTAAGTATGATATTTAATGAATTATTTTATAAATTGC  
TGTTGTGAAGCATTGTGAATGACCTGCCTCCTAGCTTTCAATGCTATTGCCAGGCTGA  
CTTTTATTGCAACTGTTTTATGATACAGTTTTGCATTGTATGTGTTTACTTTTTAAAGAA  
GCATTTCCTGGGAGGTTTCTTTTTCTGGTTATGAAAATAATATATGCTTATGGGGAAAA  
TTGGAAAATAGAAACAAGTATCTAGAAGAAAAATCACTCATAATCCAGCACCCTGTTAA  
TACTTTGTCTTTTCTTACAGT

## Sequence 949

CCCTTTGAGCGGCCGCCCGGGCAGGTACCAAGAACTAAATTGTGATACGATAGGTGACT  
TATGAGTAGCACAGAAATGTAATAGGCCCATCTCTACCTAGTTCTGGTCACCACACTTCTG  
TCAAGGTAGCTCGGAGAGACGGTGTCTACTTATTCACCACATCATGAGATCACCTCAAAC  
TGAGCAGGCAGCCAATGAAAACCGTGAGCTTTCTTTACATTAACTTTCTGAAAGTCATTT  
TTTCTTATTCACCTTTGTGCCTTTTTTAAAAGCTGCAGCTTCATGGAATTTAATCCTGG  
TATTTAAAACACT

## Sequence 950

CCCTTTGAGCGGCCGCCCGGGCAGGTAAGTATGATATTTAATGAATTATTTTATAAATTGC  
TTAATTACCATCTATTCAGTATTACTCCCAAACTGTATCTATAGTCCAAGACTGTTTC  
TAAAAGGTCTGCACCCACATATGCAAATAAATA

## Sequence 951

CGGCCGAGGTACTCTTAGGAAAGAGTAATGGGGTTGAGGATGGTTAATTTAGCCCATCCT  
AACTTCTAGTGAGATTTTTTTCANAATATTTTGGATGGTTCTCTCACTTTNGTTATTAAG  
CATTAGGGAAGAAGATTCTGCAGCCTACTCAGGTGAGCCAATCTCATGGCATTGAACANA  
NAANATATGTTTTACGCTCTTTAACANTGTTTTTCATAGTGNAAGTCAGGCCTTTCTCC  
TTTGATCTAAGTGGAACCAAGAGGTTAGATACTCCCTTTNCTTTAGTTATATAATGGGCT  
TCATGTAAT

## Sequence 952

CCCTTAGCGTGGTCGCGGCCGAGGTACACTCTGTAGGTCTACAGGTAAAAAGCTATTACG  
TTGCAAAACATTATAACGTAATGTAAGGTCTGGATTACATGCCTAAAAATCCAATGATTCT  
TGGAACCATCAAATCTGTTAAGACTGAAAAGAATACCAATGTTTAAATATATCTATAAAA  
TGCAGGTCAAGGGGCTAAGAAAATTGCAACACTAGAAAACCAACAACTTAGGTTGTTCT  
AACATACATACACAAATACAGGAGGGACGTTTATGGGTACATCTGCGAAACATTTTTTC  
CCAAAAAGCTGAATTTT

## Sequence 953

CCCTTAGCGTGGTCGCGGCCGAGGTACCACCAATAATTATGCCACAAATTTTATCCTAAA  
TAAGAGTGATTCCCTGTTCTTTTCTACAGAACATGTTTCTGTCCGCAAGAGAATAAG  
AAAACATGACCCCTCCATCCAGAACCAAACTAACTCAGGAGTGATTAGAATCACCTGTG  
GGCATTTCCTCCCAACCACTACTCTGTAGATTCTGATAAGCGCTCTTAAAGAAGCT  
ACAGCTCTTCCCAATCCCTATCTGAAAGCAAGGAACCACTGGCTTTGGTCAGGAAACAG  
GCATACAACATCAGATGTGATTATAA

## Sequence 954

CCCTTAGCGTGGTCGCGGCCGAGGTACCAGATGTTGTAAAATTTACTATAATTAATAGGA  
ATTAATTAATGAATGCCAAGGGGCAGAGCCACACTTCCTATGATAGTTCTTGCTATAAG  
GTGCTATTTTGTNCTCCTACATTTACTCCATAGTAAGCTNTTGTGAGAAAAAATG  
CCAGTTTGGTGCGTAGTAGATACGCAGAGGCCTGNGAAAGGGACNGATGACNCCATTACC  
CCATGGGTACAGAAATGTATAATGCTTCCCTCTCAAACCTGGGTTGNTTTGGNTTTTTT

Table 1

TACA

Sequence 955

CCCTTAGCGTGGTCGCGGCCGAGGTACCTTTAAGCCAGATTCATGGTATGAAGGCAGCAG  
CATAGCACCTCCATTGACCCACATGGGGGCCTGCCTTGGGCTTCATCAGCCCTTTGGAGT  
CTCAGATCCCTCACCTGTTAAAGGAGAGTAATACTACCCACTTACCTTTTTGGGTTGTTG  
TGAAACACACATAAGACAGTATTAGGAGAAGTAAGGTCTGAGGGCTGGGCTTTGGACCCA  
GCGGCCCTAGGTAGAGGCCTGTTGAATTGGATGACAGTGAACCTTGCAGCATTTCTTA  
CCTCAGAAGTTCAAGA

Sequence 956

CCCTTAGCGTGGTCGCGGCCGAGGTACTTCTGCTTTATTAGTCTAGGTAAGAAATGTAA  
TGGATGTGTGCAGGTGACATAATTTAGGGGATAAGGTAAAAATTAGATGAAGCCCAAGC  
AAATATTCTTAAAAAGAAAACTTAGGATTTTTTTTACAAAAGTTAACTTAAATGCAT  
TATCTAGAATAATGTTATAAATCAACGTATAGAGACGTTAGTGAATAGTCCCTTCATTA  
GGATGTTGAAGGAATATGGTTTCAATATTCAACAAATGTCGTGATGCCTATAAATTTTTT  
TACAAACAAGAGTATTGT

Sequence 957

CCCTTAGCGCGCCCGGCCGAGGTACTTCAGGAGATACATTCTGCTAGTTTGGGGTGGTG  
TGTTCTATAAATGTCAATTTAATCCAGTCGGCTTATGATTTTCAGTCTATATTCTTACT  
GATTAATGTGTATATACTAGTTCTGTTACTAAGGAGGGATGTTAAATTAATCCCTAGCTG  
TAATTGTGCATTAGTTTGTCTCTTTTCAGCTGTTCTAGCTCCATAAATTTTTGGAGCTGT  
TAGGTGCATATACGTTTAGGATTATTTGTCTTCTTGGTGAAGTACCTTTTATCATTA  
GGAACGTGCCATATAACCAC

Sequence 958

CCCTTTGAGCGGCCCGGCCGAGGTACTCCATAATATAATCTTTAAATGGGCAACTTC  
TAAATATTGATACAACCATTAAATAATGCTTATAGGGTAAAAGAAAATTTTGAAGCA  
CTGAATTCAGTAACCTGGGTCATGGTCCAATTTTGCTCACTACTTCATATCTTTATGTA  
GATTATTCCTATAAACATGTTCCCTAAATTCACATCAGTTTGTAAGTCAATGGATTAA  
ATTATTCAAATGTAGCTATTTAACGGTCAGTAACAATGCCTAGAAACCTAT

Sequence 959

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTAAANA  
CAGTCTTGCTATTTTAAGTCCAGGCTGGACTCAAACCTCCTGAANATTGCTCAAGCAATCT  
TCCCACCTCAGCCTCCCAAGTAGCTGGGATTACAGGTGTGATGTCCAGCTTAGGTTCCAG  
CTNTTAAANANTTGTGAGTGTGGTGGGCGAGGTGGGTCACATACACATATAATTATAAG  
GTAAAAATCACAACTACTACAAGAAAGGTGCAAACATTTATGAGAAAACCAAGAAGGG

Sequence 960

CCCTTAGCGTGGTCGCGGCCGAGGTACTCCAGCCTGGGTGACAGAGTGAGAATATGTCTC  
AAAAAAATTATCAGCANAAGATAATATAGACCCCAAGGCTAAAGGGAACCATTCATC  
TCTAGGCCTGAAAGCCTAGGAGAGGGTGCTGTATGGAGAGGACTGCTTCTGACAGAGGGA  
TATAGCCAACCTTGGTGGCCTAATAGAGAGGAAAGTAGGGAATAGCTTCACCTTCCTTCT  
CTAATCTTCTGCTAGTATCCCTATTAATTTAGCCTAATTAGAAGCTGGAAGGTAGGAGAG  
CCTCCATGGGCCAAAAAGCTGTTGTAGAGAACATGGATCCTTGAGGGGGGTAAATGGC  
AGATAATTCTAGCCACAGATTG

Sequence 961

CCCTTAGCGTGGTCGCGGCCGAGGTACTCCAGCCTGGGTGACAGAGTGAGAATATGTCTC  
AAAAAAATTATCAGCAGAAAGATAATATAGACCCCAAGGCTAAAGGGAACCATTCATC  
TCTAGGCCTGAAAGCCTAGGAGAGGGTGCTGTATGGAGAGGACTGCTTCTGACAGAGGGA  
TATAGCCAACCTTGGTGGCCTAATAGAGAGGAAAGTAGGGAATAGCTTCACCTTCCTTCT  
CTAATCTTCTGCTAGTATCCCTATTAATTTAGCCTAATTAGAAGCTGGAAGGTAGGAGAG  
CCTCCATGGGCCAAAAAGCTGTGTAGAGAACATGGATCCTGAGGGGGTAAATGG

Sequence 962

CCCTTAGCGTGGTCGCGGCCGAGGTACTTGAGAATATGATTGTAAATTTGATCAGCAGCT  
ACAACATTTCAATGATGCATATTTTTTTTTCAGATGCATTCTTTGATTGAATTTAAAGT  
CAAGCTTGTGCTTCTGGATGGTTGCTTTGTCAGTGAACACTTGGAATTTGAAAAATACAGC  
ACCTGGTTGGTTTTGAGAGAAAATGGTTTCAACTTTATAATTACAGTTTTTAACCACCAC  
AACAAACAAATTAGGATGGTAGTGAATGGAACATAATCAAATGCAAGGTTTTAGTTAA

Table 1

TANAACAATGTCATCCTTTAATAATCTTTAAAAAGAAGAACAACTAAATAACCCAATNACA  
AAATTTGAAAATTAGGGTCAAACCT  
Sequence 963  
CCCTTAGCGTGGTCGCGGCCGAGGTACTTGAGAATATGATTGTAAATTTGATCAGCAGCT  
ACAACATTTCAATGATGCATATTTTTTTTTCAGATGCATTCCTTTGATTGAATTTAAAGT  
CAAGCTTGTGCTTCTGGATGGTTGCTTTGTCAGTGAACACTTGGATTTGGAAAAATACAGC  
ACCTGGGTTGGTTTTGAGAGAAAATGGTTTCAACTTTATAATTACAGTTTTAACCCACCAC  
AACAACAAAATTAGGATGGTAGTGAATGGAATAATCAAATGCAAGGTTTTAGTTTAA  
TAGAACAAATGTCATCCTTTAATAATCTTTAAAGAAGAACAACTAAATAACCCAATAACAA  
AATTGAAATA  
Sequence 964  
CCCTTCGAGCGGCCGCCCGGGCAGGTACACTGCATAAAGCCAGAGTTAAAACCTTCACTGC  
CAGCCTCTGAACAGAAGGCTGTTCTATCCACACTATCACAAGACCTGGTGGAGTTGAGGC  
AACTGCTGAATTACCATACAGGGAAGAATGAATTCAAGAAAATTCCTATGCAAGATAGGC  
TCTTAAAAAATAAATTTACACAAGAAAATCAGCACTGTAAAGGTAATTGATAAGCCCAAT  
AGAAGGGAACCTATACAAAAGAAATAGAAATAACTAAGCAATCTGAAATGGACTTTAAAT  
AATGATG  
Sequence 965  
CCCTTCGAGCGGCCGCCCGGGCAGGTACACTGCATAAAGCCAGAGTTAAAACCTTCACTGC  
CCAGCCTCTGAACAGAAGGCTGTTCTATCCACACTATCACAAGCCTGGTGGAGTTGAGGC  
AACTGCTGAATTACCATACAGGGAAGAATGAATTCAAGAAAATTCCTATGCAAGATAGGC  
TCTTAAAAAATAAATTTACACAAGAAAATCAGCACTGTAAAGGTAATTGATAAGCCCAAT  
AGAAGGGAACCTATACAAAAGAAATAGAAATAACTAAGCAATCTGAAATGGACTTTAAAT  
AATGATGTTTACAATCTCTAAGAGGAAAAGGAGCATTANCATCAGTGAACAAAAGTAG  
GGCTATAGAAAAACAATACTTATGAAAAACCAATTGGAATTTTATAGTGGAAAAGCC  
TGAAAGTAAAAAATTCAACACATGGTCTAAAGAATAAACTGCACACAGCTTGAAGGGAA  
AATTAGTTAATTTTACCNAAGAAA  
Sequence 966  
CCCTTTGAGCGGCCGCCCGGGCAGGTACGCGGGTCAAAAGGATGAAAATGTTTTCTGTC  
AGAATGAAATTCAGAAAACCTTAAAGGAAATAAAAACTATTTAGCACCCAGTGAGGTAAA  
AATCGCAATGTCTGGTGTCCAGTCAGTTACCAGGCATGGAAAGAGACAGAAAAACATGAG  
CCATCATGAGGAGAACAAATTAGCAGAAACCAACCAGAACTGACATACATACCAGAATTG  
GCACACAAAAGGATATTAAACAATAACAACCTGCGTTCCATATGTTCAAAAAGTTAGAAA  
CATGAAAGA  
Sequence 967  
CCCTTTGAGCGGCCGCCCGGGCAGGTACGCGGGTCAAAAGGATGAAAATGTTTTCTGTC  
AGAATGAAATTCAGAAAACCTTAAAGGAAATAAAAACTATTTAGCACCCAGTGAGGTAAA  
AATCGCAATGTCTGGTGTCCAGTCAGTTACCAGGCATGGAAAGAGACAGAAAAACATGAG  
CCATCATGAGGAGAACAAATTAGCAGAAACCAACCAGAACTGACATACATACCAGAATTG  
GCACACAAAAGGATATTAAACAATAACAACCTGCGTTCCATATGTTCAAAAAGTTAGAAA  
CATGAAAGATACAAAATAAAATCAAACCTTCTAAAGATGAGAACTGTAGTGTGGAGG  
GAAAAA  
Sequence 968  
CCCTTCGAGCGGCCGCCCGGGCAGGTACGCGGGCGGTCTGTGCCCCATCACCATTCTAA  
AGCACCCCTACCCCTCATGGCAGTGTCCTCAAGGAAGGGGTTCCATGGTAACCTCAATGGA  
TACAGTCAGCTGACGTCTGGCACCAGCCTGTGCTGGTGTGCGCTAGCCTACTCACTCCCTC  
GGCCCTCCCTCAATCCTTTCAACTATATTTATTAGTTCTCTTTAATGGAAAGTATATAAT  
CCCTTAATGTCAGACCTTGAGTGGGCACTCAGCTTTATTAATTTATTTAGGTAATAAAAT  
TTACCTTCCTAATTAATTCTCAGTAAGTCCTGGGAAGCTGTATTATTTAAACATNTTG  
CACAATTGT  
Sequence 969  
CCCTTCGAGCGGCCGCCCGGGCAGGTACGCGGGCGGTCTGTGCCCCATCACCATTCTAA  
AGCACCCCTACCCCTCATGGCAGTGTCCTCAAGGAAGGGGTTCCATGGTAACCTCAATGGA  
TACAGTCAGCTGACGTCTGGCACCAGCCTGTGCTGGTGTGCGCTAGCCTACTCACTCCCTC  
GGCCCTCCCTCAATCCTTTCAACTATATTTATTAGTTCTCTTTAATGGAAAGTATATAAT  
CCCTTAATGTCAAGACCTTGAGTGGCACTCAAGCTTTATTAATTTATTTAGGTAATAAAT

Table 1

TTTACCTTCCTAAATTAATTCTCAAGTAGTCCTGGGAGCTGTATTTATTTTAAACAT

Sequence 970

CCCTTAGCGTGGTCGCGGCCGAGGTACCAAGATTATGATAGCCTCTNAAAACAAATTGGA  
GGTTATAACCTTTTTCTATTCTCTGCAACAGTGGATATAGGATTGGAGTTATTTTTTCT  
TAAGTTTTTGGTAGAAAAGTACCCANTNGAAGTCATGTGGGTTTGGATTNTCTTTGT  
ANGANAGGNTCCTAATTACTAATNAGCTTTTCAAAATAN

Sequence 971

CCCTTAGCGTGGTCGCGGCCGAGGTACCAAGATTATGATAGCCTCTTAAAACAAATTGGA  
GGTTATAACCTTTTTCTATTCTCTGCAACAGTGGATATAGGATTGGAGTTATTTTTTCT  
TAAGTTTTTGGTAGAAAAGTACCCAGTGAAGTCATGTGGGTTTGGATTNTCTTTGTAGGAA  
GGTTCCTAATTACTAATTAGCTTTTCAAAATAGTTATGAGAATATTCAGGTTTTCTATT  
CTTCCTGTGTCAATTTTGTGTCTTTTCTATAAATTTGTTTCATCTATAATTTTAATATT  
TTTGGTATAATTTTTTCAAAAATAATCTTGATTTATTTACAAGGACAGGGATCTTA

Sequence 972

CCCTTAGCGTGGTCGCGGCCGAGGTACTCCAGCCTGGGGGACAGAGTGAGACCCTGNCTN  
AAAAAANNTTTTTTGNNTNTGANNNNNGANTAANGAAAAGAAAAGGAAAAGAAAAACA  
AGAAATTAGCTCATGATAGNCAGCTTTATATTATNAATTATGTGACACTTTGGATATTTT  
AAAAGCACATTACAAAAGTGTATTGTCACTTAAATACCTCAAAATTTCCCTGTTATACAT  
GCAGATCATTCCCCATTCANCCCTGGGTATGGGACTGAACTGTGTACCTTGCCCGGGGCG  
GGCCCGCTTCGAAAAGGGGCGAAATTCAGCNACACTGGGGCGGGCCGGTTACTTAGT  
GGGATTCGCGAGNCTTCGGGTTACCCCAA

Sequence 973

CCCTTAGCGTGGTCGCGGCCGAGGTACTCCAGCCTGGGTGACAGAGTGAGACCCTGTCTC  
AAAAAAAAAAAAAGAAAAAGAAAAAGAAAAAGAAAAAGAAAAAGAAAAACAAGA  
AATTAGCTCATGATAGCAGCTTATATTATAATTATGTGACACTTTGGATATTTCAAAGCA  
CATTACAAAAGNGTATGTCACTTAAATACCTCAAAATTTCCCTGTTATACATGCAGATCA  
TTCCCCATTACGCCCTGGTATGGACTGAACTGTGTACCTGCCCGGGCGGGCCGCTCGAAAG  
GG

Sequence 974

CCCTTTGAGCGGCCGCCCGGGCAGGTACAAAGCTAGAAGCAGCCTGGTCCAGATGGCTA  
TACAAACCCNANACTGTCTACACCCAGACTTTATTCTTCTACAACCAAATTCCTCAAACA  
CACAACTTTGACCAGTANCAAGTTGAAANGGGAGTTTAAGGTGGGGGTGA

Sequence 975

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGCTACCAAACCTGCATNAAAAATTTCCGT  
NGGGGCNAANAAANGNNNTTNCCNANCCCTCCGAGCAGTACCATGCTATATTGGTCACTG  
TAGCTCTGGTACATANTTTTNGAAGATTGGGGTAATGTGGATTCCTCTAGCTTTGTTAAG  
CTCTGTGTGTTTCACTTAGTATTACTTTAACTATTAGGGCTTCTTTTTTGGTTNCATATT  
AAATTTGTAAATAAAATTT

Sequence 976

CCCTTTGAGCGGCCGCCCGGGCAGGTACCTCTCATTTGTCACTTTTCAACACTTCCTGG  
CANGCAGGCANCACTAAGTCTGCTGGGTGATCCAGACCACACTCTGCAACTCTTTCT  
TTTGAGCCAAGGCTCCCCTACTGTCTTTTCATTTTATGTCAAGGCAGGGGGAAGACCTCA  
AAGGGCTCTTGCATCCAGTCTCACTTCCAAGAGAGGCACTGAGGCCCTCCAGGATGTG  
GGGACAGGAACCTTTGGGGCCAAGCCGGGGCTGTCCAGAAGATCACCAGGAGGGGCTTAA  
TTAGTTNGAAAAGGGAGNAGGTCCTT

Sequence 977

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTAAAAAGTAAACAAATTTAACTGAAGCATGG  
CTATTAGTTAGTGATTCTTTGTAGATTTCTGGAAAGTCTTGTGTTGTTGATTAAACAT  
TAACTCTGCTGTATGCTGTAAATACACTGCTAAGATCAATATTGAAAAACGAACAATAAT  
ACCAATTCATATGGACCTTCAAAATAGTCTTATAAAATTTTATGGATATTGGNATTAT  
CCCAAGCCAACCTGACTTTTGGAGACTGACAAATAATATCTTAACTTTAACCCAGGGGTG  
GATTTCTTGCCATTTNCCTTTTGGNTT

Sequence 978

CCCTTTGAGCGGCCGCCCGGGCAGGTACGACTTCACAACACCAACCACAGGTCTCAAGG  
TCAAAAAATGAGCTAGGAGTAAAGTATCTGCTCCAGAATCTACCCCATCCAGAAAGAG

Table 1

CAACCCAACTGTGTCCTGAGTGGCTCTTAGAGTTTAAAGACTCTGAATGAATGCCTAAATT  
TANAAAGGGTGTGGACCAAGGGATTTTNGGTTAATGTATCNCTAAAAGCANGCTGACTGC  
CAGGATTTCAAGT

Sequence 979

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACCTGGCAGCAGAGTAGGCCTAATATGTGTTG  
AATGAGTAGGTGAAATAAAACAAAAACCTAATGGCGATGGAATTTTATGGAAATAAGTAAA  
CTTCATTATTGCTGAAATACCGCAGATAAATAGAGGGAGGCAGTGAATAGAGTGGAAA  
GAGCAGTAGACCAGGAGTCAGACAGTCGAGGATCTCATTCTAAATTTGAAGGTGAATAGC  
CATGTGGCTTTAGACAGGACTCTGAACCACCTTGTTTTCTTATCTGTAAAAGGGGGGAAG  
TCATAATAGCTACTCCTGCCTAACTCATANGTTGTTGAGAAAAATGAAGTGATT

Sequence 980

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACATTACCTTTTATGTATGCTGGAATAAGAACT  
TGTGTCTACATGCATGTAGAAACAATGGAAGGATAGGCAAGGAAATGAAAAAAATGA  
TAACCTATGGGAGTGATGGCCACTAGATGACTGGGGACAGGGGCTGGTGAGTGAGCGCA  
ATTATCTATTTAAACAATCAGAAATGCTCCCTAAATTACAAGTTTCTAGTTAAATGCAGT  
AAGAAATCCCCACAAGCTCTGCAAAATAAGTTCTGTCAATCAAATCTTACATGATGCAT  
TAACGTAGCTATTTTAAATACTACCATGGAATTCATCTTAAAGGGTGACCTTTGTAA  
AG

Sequence 981

CCCTTAGCGTGGTCGCGGCCGAGGTACAGTATTGTTGACTGGCTAACAGAGGACCAATTA  
ATAAGCCAAAGAAATGGCTCTTTAACAATGAACATTTCTGCCATCACTGACAGATCCCA  
GGAATAAATGTTTTCCAGTGAGGAGACTTCTCTGGTTTTCAGAACACCTCTGGCTGCCCC  
TGCCACCCCATAGAAGGGCTATCCCTCCAGGTCAGGTTAGCATCATCACCTAGAGCCAA  
CAAGTCAAGGAGGTGATGGTTTGCCTTTGACATCTCTACCCAGACCAGACTCCACTGGAG  
AAGACTCTCCCTTTTTTCATCACTGCCCTACCTAGTTAGGTTGGTCCTGC

Sequence 982

CCCTTAGCGTGGTCGCGGCCGAGGTACTTAGATCAGATGGATTGAAACATGACAGCCCCA  
TTTCATCTGGCCGGTTAAGGTCCTCATGGAATGAAAAACACTTTCGGGCACTCTCCTATG  
AGAGAGAGAATGGGTTTTCTTAATTGCCAGATTGTCTGAACACAGCCTCAGCTACTTCTA  
GGAATAAGACGAAGCAGTGAGGAAGTTGCCAGTTGAGTGATTCTTGGGGAAAAAATTAG  
CATTAGTGCCAGCTCTCTAAAGTGTGGATTCTGGATTCTGGTAGAAGCCAGTAAAGAAA  
CGTTTTTCTCTGGAGTGGAAGCCTAGTAAGATTTATTT

Sequence 983

CCCTTAGCGTGGTCGCGGCCGAGGTACAGTGACATTTCAAGACATGGCCCAATGCACAAG  
CAACTTCCCAAAGCTGTAATTCACGAGATTCCTCAGGGTCCTCTAAGCTCCTTGAGGGCA  
GAAACTTATCTTTGTATTACAGCTAGCCTTCAATCAGTAGGTTGTTGAGCTGATTTTCTTT  
TTCTTTTTTAAACTCAGAAGTTAAGTTCCAGCTTCAGTGGCTATGCCAGATGGTCTGAT  
TCTGAAGGACAAGAGAATTCAGNTGGCATAAGCCCTGTGCTTGGCATGTAGTANGTTTCT  
CAGTAAACTTTANCTGGCGGGA

Sequence 984

GAATTGCCCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTAGTAAAGATGGGGTTTTTGCC  
ATGTTGGCTAGGCTGGTCTCGAACTCCTGACCTCAGGTGATCCACCCACTTCGGCCTCCC  
AAAGTGCTGAAATTACAGGTGTGAGCCACCGCGCCCGGCCGAGGACACTATTTTTTGCT  
TTGGAAGAAATGAATCCTAGTTTTGGTTTCAGAACTGTCAACAGCATTGTGCCTCTTCTA  
TGACTACTAAATTTCAAGCAAAGAGAGCTGAGTTGGGGTAAAAGCAGGGCTATTCCCCG  
CCTTCAGACAATGCTTGTCCCTTATCAAGGGCAGACTGCTGTCTGG

Sequence 985

CCCTTAGCGTGGTCGCGGCCGAGGTACTTACTTAATTTTTTTTTTTTTTTTATAGTAGAGA  
TGAGGTTTACCAGTGTGGCCAGGCTGGTCTCGAACTCCTGACCTCAGGTGATCCACCTG  
CCTCAGCCTCCCAAAGTGTTGGGATTACAGGAGTGAGCCACCGCACCCAGCCTGTGTGTG  
TTTTTTTACTTAAAAATTTTTAAATTTAAATTTAAATGTTTAAATTGACAAATAATTTTAT  
ATATGGGGTATAATGTGATGTTTTGATGTATACATTGTTGTATACGTTGTAAATTGTATAC  
ATTGGGGTTGTATACATTGGGATGTATACCATTGAAATTATTTGNATCCAGAAAATTAA

Sequence 986

CCCTTAGCGTGGTCGCGGCCGAGGTACATGGAATACATAATTTTGAATGGAGTCAGGGC  
TTTCTAATGATCCATTTTGAATTCACCTAACAGCTGAGGGAAGGTCCAGAGAAGGAAG

Table 1

AACTCAAGGTTAGTAGACAAACTTGATATTGAGTTGCACTGGCTGCCTTCTCTTTTGGT  
CCCCTAAAGAGTATTATCATCTTAGATTACAGCTTAAGTTGTGGACAAATATCAAGGGGA  
AAAGTATTTACAGTTAACGTTGGAATCACACGGTTTTCCGGGGTTGTGCCTCTTACCCT  
TCAACTTTGGTGGTTTCTAAAGAGGGACCGATTATTAGTTGCTTCTACTAAGGAAGGGGA  
AG

## Sequence 987

CCCTTAGCGTGGTCGCGGCCGAGGTACCTGGCCTAGAAAAATTTTTTTTTTTGAAATGG  
AGTCTCACTGTGTGCGCCAGGCTGGAGTGCAGTGGCNCAAATCTCNTCTNAAAAAAAAA  
AAAAACAAAACAAAAATAAACTTTACTCAAATATCACTTTCTGTTAAATGTTCTTAATTC  
CTTCAATCATCCCCCTCTTCTAACTNTNACAGCACTTTCTCCACTACGGCACGCATTAC  
ACGCCAACTACTACCCAGTTCACGTTTTCCGCCCTNTNTCCCACTTGCCCAATCACAGAN  
TTCCTAAAGAACCAGGACTATGTTCTACTAGTCTTTGTAGCCACTGCACT

## Sequence 988

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTCCTGTTTCTACAAATTTATCTTATAATAAT  
TTGTCAAATGTTGAGTGCACAGATTTATTCACTTGCAGCATTTGGTTTTTCATATCAAAAG  
ATGGGAAACATTGTGCAAAACAATGCCCATCAGTAGTGGATTGATTAAATAAATTAGGTAT  
ATCCAATAATTGAATATTATGCAAGTATATAAAAAATAAGAATCATGAATATGGAAAGAT  
TTCGAAAATATATTGCTAAGATTAAAAAAGGAAGGGGCAGAAGAAAAATAAGTTGGGT  
AAAAAACCCCAAGAAATGTTTACTAATAATTATATTTAAAACTCATAGGATAAACAAGG  
AAGGGTAATGAAATAATTAAT

## Sequence 989

CCCTTAGNNTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTGGTAGAN  
ACAGGGTCTCACACTTTGTTGCCAGGGCTGGTCTNGAATTNCTTGGACTCAANCAATCCT  
CCCGTGTTAGCCTCCCAAATTGCTAGGGTTATAGGTGTGAGCCACCCTGCCCAGCCTATG  
TTTTTTTTCAGATGTTCAAAACAACAAACAAAAATAACACACTNGAAAAAATGATCAGAGA  
ATACGTGTTAAATGAGAAATNGTTCAGGGCTTTTATAAATTTGTGACCTCCACCCTTCCC  
CTTANTCCTTTTTCTCCATAAACTCTAATTNCAAATTTTACTACCACAGCAAAAAAGAGG

## Sequence 990

CCCTTAGCGTGGTCGCGGCCGAGGTACCTGTGATTGTCTGTGTTGAGACTATTACAGAGC  
TCCAAAAATTAATAAAAAATAAATTTTACAGAAATACATATTTGCATTGGAATATTT  
AAGAAAGTTGAGTTTGGATGCCACAAGATTATTGGAGTNATAGGNAGCTGGGCACAGTGG  
CTCACACCTGTAATCCTAGCACTTTGGG

## Sequence 991

CCCTTAGCGTGGTCGCGGCCGCGGTACCCTAAACTTAAAGTATAATAATAATAAAATTA  
AAAAACCAAAAAACAAAGATTAAACAGAAAAACAAACANCAAAAAAACTCCAGCATATAC  
ATTGAGTCATTTGCAGGTTTGGGAGGGGGGAAATGCTTTTTTGTATTAGGAGAAAGGGA  
AGCTTTTCATTTTAAATGGCTATATTACTTAAAGTTTGCANTAAATATTTATTACTTTC

## Sequence 992

TGCTCGTGGACAGAGGGCAACCCAACACTCTAGCCTAAAGCCCCGTGACACCTGCAGCA  
GGTGCTTGCCACGCNTTGCACCCGTTCCCGAANTAAAAAGTCGCCGGTCTTANAAGGCG  
NCGAGNTCTTGGTNGACCTTTGNGCANCCCCACCCGTTGCCAGTCTTGAATGNGGTTACC  
CCANAGNCGCCNCAGGCTGACATGGGAAAGGATGTTCTTTGGGAAAAAAAAAAATGGAAC  
CCCGGTGGGTAGNCCCTTGNNGGGCNTGGGNAGCCCCCGGANGGGGTCCCCGNCNGT  
T  
TGGCCGGGGCNCAAAATTCANAAGNCAAGGGTTGGGGGNATCCCCGNGGGGAACCTTGGG  
G

## Sequence 993

ATGCAGAATTCGCCCTTTGAGCGGCCGCCGGGAGGTACCCCATCAGAGTGTTTCTCTT  
GGCTTNCCTGTATGTAAACCTTACCTAATACTTTCACTCACCCTCTTTCTGTGTTTATT  
TCCCTTTTAAGNCAAAAAANGGGANGNAAGTAAGTTGGNNATTTGGNGTTTCAAAGNGNC  
CAATTGNCCTTTTGNCTTTTTTCA

## Sequence 994

CCCTTAGCGTGGTCGCGGCCGAGGTACCAAGTTGTTCTCAAACCTTTCATGTTTGTGTATA  
CAAATCAGCTGAGGCCTTCACTAACTACAGATTCCATGGCCTGGCCCTCAGAGATTTTG  
ACTCAACAGGTCTGAGTTGGGACTAGAAATATGCATTGCTAATAGGCACCCTGACAATTC

Table 1

CGATGTAGGTGGTCCTTAGAACATATTTTGAGAAATATATTCTGTAGTCTGGCAGATAAA  
GAATTCTTAACAAGGAGGTCTGCCCCGGCGGCCGNTCGAAAGGGCGA

Sequence 995

CCCTTAGCGTGGTCGCGGGCCGAGGTACCATCATCTGTTTCCCTCTGGTTATAAATCTTTA  
ATGAAAACGGATTTAAAAAGTCACATTATGATGCTCGAAGCTCTGACCTCTCATCACAAAT  
GAGAAGCAAAAGACATGCCATAAAGATGATATTTCCACAGGAACGATATTAGAATTATG  
TGATGCAATCTCATCCAAGGTCTGGTATCAAACCAGACACAGCTAAAAATGTATCATAA  
TAGCAAGGATACAGTAGCAAGGATGGGCCTCAATAAACATTTAAAGTGGAATAATCTTC  
TCTAACTCATATCAAGTACCTGCCCCGGCGGC

Sequence 996

CCCTTCGAGCGGCCGCCCCGGGCAGGTACCAAAATAGATAAGGATCCTGTTTTTTGAAAT  
GAACCCCAAGTTGCGCCTTAGGCATTGTGAGTTGGCTCATTTCAAGCCAGTTGTAATATGG  
TTTTTATTCTCTAAATTCGGGACCTGATGCTAAGGAATGTGAATATACAGTTAGGTTT  
CTGCGAACCCCTGTGTTGGTTCAAAAAGGCTGGTGGAGGGAAATTTATGACACTAAATGCT  
TATATTAGAAAAGAGGAAAAATTGGCCGAGCACGGTGGCTCATGCCTGTAATCCCAGCATT  
TGGGAGGCCGAGCCAGGTGGAT

Sequence 997

CCCTTAGCGTGGTCGCGGCCGAGGTACTTGGCAACAATAGCTACAAAGGATAGGATACTC  
AATTGCAAGTAGACTTTTCAAAATTAATTCACTTACTTCTATTCCCAACTCAATCTAGA  
ATATTATTGGTGATAGTGAAAAGACCAGACAGATGACATTACTTCCAAATTTTACCAATC  
TAATTGTTTTTACTCACACCTGTNGATGTCACTTTAAAAATGTGAATATTAATTTCTTCA  
AACTACTCCAAATTAAGTAATGAGTTAGAGCTTTGGCAACCATTAAGGCTCTCTTTTCC  
CACTCTAACAAATATGTGGTAATGTCTTCCCTGACTTCATTTTATGTTTACACAAAATCA  
AAGGTTATATTTAAAGGGTTTTCTACATTTTTTGGGATATTTACCTCCTTGNAAATTTAG  
NNTTATATGTCTGGATTACAAAAACATATNATATTCAAAGAATTTNTAACACTTAGAGGT  
AGAAGTGAAATTACAGGTTGAAGAATTATTTAAA

Sequence 998

CCCTTAGCGTGGTCGCGGCCGAGGTACGTGTTTTACTTGGTGCTGTAGGTAATGCTAATT  
CATGATAAATTTTGAGAACCACTCTAGGGTAGTATGTTTCCAACAGTTTAGGTCATGAGC  
AACCTTGAGAAATACACTTTTAATCATGACTCAGCACACACACTCACATGCACGTGTGAC  
TTAGACGTTCCATGAAACAAATGCTTATCTTACAGTGTGTTTTCTGCTCTGGTATTTTTAC  
TTATATTCTATTAATAGATATGTGTATAAACTTATTGATATAAAAAATGTGGTCATGA  
TCCACTAAAGTGATTTTACAAGCCACTAATGG

Sequence 999

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTNAACTTGGGTNTCCTTTTTNATNATTCTGN  
AAAATNANAAAAACCNAAANCCTGTTNATNTAGGGTTTTNATGNTANAGTTGNANAAAA  
CTGNNTTTTGTNAGTTTNAANAAGNCCATTTNAATGAGTNAAATTTTTNAAAANCCTCNA  
AANCNAACAAANCTGNAAAAAAGTAGGGGNGGGGGTNAATGGTTNATTTNAAATGTTTG  
CCTTCANTANCATGAGAGGG

Sequence 1000

CCCTTCGAGCGGCCGCCCCGGGCAGGTACTAACTGAATATTTATTTAAAAAAGCATTAAAT  
TTATCTATCTATATACTAAATCTATCAAATATTCTTTAAACACGAACCAAAGTTAATC  
TGAAACTCTTCCCTGTGAAAAAAGTCATGTATTATATGCCTTCAACACAGAATTTGTCATT  
ATTTCCCTGTGGCATTATACTATGCCCTTTGTCAATATGCTTTTTTCCCATAGAGCATT  
TTCCCATAGAACTTTGTATTCTCCACTTCTACCACCTTCTTTGAAGAACTCTTATTTA  
CCATTTCTTGGACTAAATTAGGAA

Sequence 1001

CCCTTAGCGTGGTCGCGGCCGAGGTACCCAGAATATGGTATATCTCTTCATTTATTTAGC  
TCTTTTTAAATTTGTTTTGGTAATATTCTGTGATTTTTTTTTTTTTTTTTTGGTATGGAGG  
TCTTACATCTTTGTAAAATTTATCCTAATACTTTGGATTTTGACATTATCATAAAAGA  
AAATTTATTTCACTGACTTTTCCAGTTTGCTGCTGGCCCTAAACATATANTTAATNTTTAT  
ATTTAATCTTGTATCCTATNACTTTGCTAAATTCATATA

Sequence 1002

CCCTTCGAGCGGCCGCCCCGGGCAGGTACTACTTGGCATTAAATTAGATTGTGATCATAAG  
TCAAAATGTCATTGGTTATAAAGTGGTCATCAGACCATGCAGACTATTACTAATATTGGT



Table 1

TATGTTTTAGTTTATTGCAGTGAAAATACAAAATTTAAAAGTTATTGTAGAGAATTATCA  
TACCCCCCAAAAAGTGTCATTGGTCCCTCCAGGACTCTGTAGTCCCCATCCAAGAAAGACT  
GTGATAATTGTCAAGGGGTTAGTATGGTCTGAGCATGGTTGATGGTGCTCTGTCTATTCTG  
GTATTAACAACCTGCCAAATGCTTGATTACATGTCCTAAAAAAGTGAGGGGAAGAAGT  
GTAGGACAAATGCAAAATAAAATAACACATTTAGCTATACTTTTAAGTATTTTTTATT

Sequence 1003

CCCTTAGCGTGGTCGCGGCCGAGGTACATCTGTTTCTGAAAGCATTTTTCACTGAACCAA  
TTTTCTATACCTTTTCTTGATTCTTTCCCTTAGCTTTTGTATATGGTTGCTATATT  
TTTCAAGCCTCATACCAGTCATATAAAACCATGATAAACTTCATCAAAGCATACTTGGG  
CAATTTCAATTATCAAGTAAATTTGTAAGAAAAATTTTTACTAGTTTGAAATAGAT  
CTACATGTTTGATTTTCTTCCCTCCCTCTTGTCTTCTCTCCCTTT  
CCTAAAAAGTTAATGGCTATCATTATCTTACCAAATTAAGTGTGGTATACCCATAA

Sequence 1004

CCCTTAGCGTGGTCGCGGCCGAGGTACTCCTGAACCTTAAAAGTTGAACAACAAAAAAGA  
AGGAAAATGCGTTAATACCTTATTGTAATTATTATTTTTGGAAGACTATTTTTATATT  
CAGAAGAAGTGTCAGAGTCAGCAGAAAGGATTATTTCTCCATTTACCTACAACAATGGT  
TTTAAATGACTGGATAGATAGAAATCTCTTCACTTAACTGCTTAGCACATTGCATTTT  
TCTCTGTTTCAAGTTAGTTTCCAAAGGATTACTGACTTTTACCTAATTGCTAAGGGA  
TGTCAGGCCTTAATGACATATTTCTCCTCAAATAAAGGATACAACATGC

Sequence 1005

CCCTTAGCGTGGTCGCGGCCGAGGTACTTCGGTATTACAGCGCCACCCACTGGCTAGAAG  
TCCTCATAGCACATATGAGATGTAGCCATAAAATAGATGAATTCTTGAAATANGGAATAT  
AACACTTGACTATTCTGATTCAGNAGAACATAAAAAATGTTCTAACAAAAACAGAACCCAGA  
CACATTTATATNTATTTCTACAAGTNAACAGAAATATCTATTAGA

Sequence 1006

CCCTTTGAGCGGCCGCCCGGGCAGGTACATAGTTCTGCTTGCAATTGGTCCCATTACAAT  
CCTGTCTAAATCCTGAAGTAAAAATGAATACCATAGTGAAGAAATTACTTGTGCATGTGA  
AAGAGGCTGGTCCAACCTCCTTAATTGCAACAGGGATTGATTCTTCTACTAGTAGTTAGG  
AAAGGTTGCATTAATATTCAGTAGTTAAATGTGCGATTCTAAATTTTTTGTAATTTCCC  
ATGAGAGAATAAATTTTTTCAAAAATATTCACAGTAGGTGAATGGCTTAATACATGGTA  
TCTGTGAAGATGGCAAATAAAATGAC

Sequence 1007

NTNTTNGNNNAATNCNCNNTTAGCGNGGTCGAGGGGCGNGGNNCATNTAAAANGTGATGC  
TAATACTTTAAATGTGTTAAGATATATGATTTAAAAAGCATTGTNAATTGTATACTGCA  
GTGTCGTCTACATGGCATTGGACAGGACANTAATTGTAACATAAANAGTGCAATTTG  
TTACACTTACATATGAATAGCTGAAATGNGCAACAGTGGACGCAANTTTTTNGTCTTC  
AAGTTTTANTAATTACCCCAANAANACCTATTTAACNAGGCTGATNCTAACNTGGGGGAT  
ATTTAATGNTTTCTTATTAATTTGGACCNAAAAANTCTTTTGAATTAANCTTGGGCN  
ANTTCGCAACCAAAACCAATTTTAAT

Sequence 1008

CCCTTAGCGTGGTCGCGGCCGAGGTACACTGGCTCACCTCTCAGGGCTTTGCTCCTTGGG  
AGGCTATTCAAGCTCAGCATCACCTGTCTCACATCTGTCTGGGATCCTCAAACCTGACCT  
TTGTAAATTTCCACTAACTGAAGATTGTAGAGGAAAAAAAAAACATCTTATCGAATTCC  
TGCTCTTATAGCTGATTTTAGCTATTAGGAAAAACATCCCAAGTTGAGCTTTTCTATTCCT  
AGAATTTTCAAGATTTCTTCTTTTTAAAAATTTTATCTCCTTTTATAGTAGTAAAAATAT  
TTTCTTTTTTTTTGGAATGGGAGGTCTTAAGCTCAGTGTCAAAAATAAAATCATTTT

Sequence 1009

CCCTTCGAGCGGCCGCCCGGGCAGGTACCTTCTTGCTTACAGCGTTTAGCTCCGTTTGT  
TTGCATAAAGATCTGTTTTCTGACTTCGCATGAGGGGTAGATGTTTCACTTATTCTCACT  
ATGTAAATTACTTAGTAATAATAGGAAGAGATGTTGAAATACAACTTTCTGCCACCAG  
ACCTTCACTCTATTGCAGTCATTTTCTCCCACTCTCCCCCTCTCTCCCACTTCTCTGA  
GGATTACCTTCCCCTCTCTCANCAATCCTCTGTCTCAGTGGCTTTTTTTTTCTTTGGCATG  
CAAACATGCTCAAGTCTGTCTTATA

Sequence 1010

CCCTTAGCGTGGTCGCTNTNTCGAGGTACTCTTTTCAAGTGAAGTGTTCGGTCACCTGGA  
ACCTGTGAGTATGTGGTTTTGATCTGTGACTAAACTGTCCCCATTTCCAGTTTCTCTG

Table 1

CTCCGTCAAATATCAACATTTTACCAGGTTTCTCTGTTGTTGCCAAACCTGTCATTTTTA  
TTTGGTGTGGCTTCTTGGGAACTTCCATGGCCATTTGATGGGAATCAAACAGTGAAAA  
CAAGGACAGATGCACCAGAGGTGGCATCAGGAACAAATGGGTCATAAGAACTTACCTTGG  
CAGCAGCCCCAGAATGGTNAGGAGGAAAGGCACTNTAAGGTATCAGAAGGTAGAAAGGAN  
AGGTTGGATNATAGNAATGGGGGAAAGGG

Sequence 1011

CCCTTNTNNTGGTCGCGGCCGAGGTACTGAGACACTGGATCCTAAGAAAATCAGAGTTAT  
AGCTAGTGGCAGTTATCAAGGGAATGCAGAGGTTTCTGTATTCTGAGCATGTTCTGTAA  
TAGGATAGATAGGCGATGTGGCAGCAACAACTCCCAATTCGTAATGTCTTAAACAAAA  
CAAGTTTTATTTCCATTTATGCCATGTTTCCAGCACAGTTTCTCAGAGGGCTGTGCTCC  
ATGCATTTACTCAAGGTCTGGGAATGATCATGGCTACACTATCTTGCAGCCACCATATTT  
GGAACCTGTTGCCACTCTGATGGCAGCAGAGAACAAAAAGAAA

Sequence 1012

CCCTTTGAGCGGCCNTTTNNGGCAGGTACGGGCTTTTTTGTCTTGTGCAGTAACAGTG  
AGGGCATGATTAGCCATCTTTGCCAGCTGATGCTTGTGGACACCTGCCTTGTACCAC  
TCTAACAGGCCCGTGTGAGCAGCTCCGCTTCCTCCTGACAAGCTGCGAGCACAGGGGACA  
GCACAACTGAAACTCTTACNGATACCAACAGCAACAAAAATGAAAGCAGTTATGGTGGG  
CAAGCATTAATCTAAAATTTTTTTTAA

Sequence 1013

CCCTTTGAGCGGCCCGCCCGGGCAGGTACGCGGGGGGTCTCACCATGTTGGCCAGGCC  
G

GTCTCAAATTCCTGACCTCAAGTGATCCTCCCCGTCAGCCTCCCAAAGTGCCAGGATTA  
TAAGCAGGAGCCACCGCGCCAGCCTATTTTGTCTTAAATTTTTTGTCTTTCAGTCA  
CCACAATTTACCATGCATAAATCACAACGGTTAACAATTTAGCATCTTTGCCTTCTTTT  
CCTGTGCACTTACGTTTTATGTAGCCAAGATCACACGTTGCATTTTGTCTTCTCTTA  
ACAGCGTCTAAGTCATCAGCACTCTATTGTGATGATTATCTTAAAAATTTCCAAGCGA  
TCATTTTTAGTAACTGTGTAATATTATATCATAAAGTTAAACATAATTTGTCATTCAAT  
TGTTGAAATTTTTAGGTTACGTATATTTCTCTTATAAATATGTAAATATGTTTATAAAA  
AGTTATATACAGTTTTTATAAATCTTTGTGCATACTTTATACTGGTTCCTTAGCATAGA  
GACTGTGGGAATAGGATTTCTTAAAAAANGTAAAAAGTGTGAGTATGCATATATACCTG  
GTACATATATGTTATTATTATAAANGTAAATATTCTTTTTTTTTTGGAGAAAGAACTCTC  
ACTGNACTTCANNCTGGGGTAAAAGTGAGACCCCTGTCTNAAACCAACCGGAAAAAAA

Sequence 1014

CCCTTCGAGCGGCCCGCCCGGGCAGGTACTTATTAGACAAGAGTTCTGACTCTCATGCTT  
GAGGATAAGATTATACATTTTCACTATTACATTGAAGATATTTTCAATTTTAAACCAGACTAA  
CTTAGTATATTGTTATTTTAAATGTGACCAAAGAAATATTTTATAGAAGCTAATGCTGA  
GTCTTTTGATAATTTGCCGTATCTTAGTCAATCCCAAAAAATTTATTTTCTACTATTTAC  
ATATTATCCTAGTGGATATTACATTACTTACTGAAGCCTTTGGTTCTATGTTTCATCTAC  
TCAGACTTAATTCAGGAAGAGCTTCATCCAGATGTTTTGTTTATTGTTTCTCGATTACA  
TGATGAGATTTTCAGAATTTATGAGATCATAGGTCAAGTGAAAGGTCACAGTTGAGAGGT  
CAAGTAAGAAGCTAAAATTTGTGAAACCAAGAAATGACAGGACAGTGCCAAATGAAAGG  
TCAAAAGTCAAGTGACAGACTCAGTACCTCGGCCCGCGACCACGCTAAGGG

Sequence 1015

CCCTTTGAGCGGCCCGCCCGGGCAGGTACGCGGGAGAACCAGTGACAACCTGTCAAATTA  
TTGTAGTTAGCCAGTGAATTTTCAATTTTTGAATTTTTCTTTCTTTGAGACAGGGTCTTG  
CTGTTGCTCAGGATGGTCTCGAACTCCTGAGCTCAAGCAATTTGCCGGAGCTCAAGTCTC  
AGCCTCCCAAAGTGCTGGGATTACATGAGCCATCGCACTCTGCTGTTTCTGAATTTTTTA  
AACAAATAAATATCAAGCAATCAGATGCCAAAAATTACAAAAGAAAATCAGTATCAAAAA  
TTTGGAGTTTGAGGCCAGGCACGGTGGCTCAGGCCTATAATCCAGCACTTTGAGAAGCT  
GAGGCGGGCAGATCACGAGGTGAGGAAATCGAGACCATCCTGGCTAGCACGGTGAAACCC  
CGTCTCTACTAAAAGTACCTCGGCCCGCGACCACGCTAAAGGG

Sequence 1016

CCCTTAGCGTGGTCGCGGCCGAGGTACTATTATAATAAGTTAACATATTTCCCCTATATG  
CGGAAATGCTGACTATATCTTTTGGTTGCTTTGGAACACTATCTCCTCACAACAGTCCCT  
TGCTACAGAAATGGGAAAGGGAAGGACACATTTTGGTTTCTGCAACATGGCAACATTTCG  
TAAACCCAGAAATGATGTGTGACAAGAACTAAAGAACTGGACGAAATTCACCTCCATTC

Table 1

ACCCTGGTTAAAGCTTCCTTGAATCAGAGATAAGAAACAACATGAAAAATCTATTCCTTT  
TAGAAAAACAAGTCTTTAACCCAGAGGTTGGTTTATTTTGAAGGAATTAGACTCTGGGC  
CCACATACCGCTCGTTCAAAATATAATGCTGTGGTTTCAACTCCTGCTAAATGTTGCTGT  
GACTTTTAAGCAGAGAACCTTCTAAAAGGAAGTAACCTAGGGAGGGGCTGATATAACTCAG  
ACATCAATAATTCATTTTATTGGAATAGGAGTAGTAGTATGAAATGCTAGCANACTGTT  
TCATTTGCAGGGAGGCATTTTCTA

Sequence 1017

CCCTTAGCGTGGTCGCGGCCGAGGTACAATTCAACTATCATTCTGGTTGCGGTGGAAGAT  
GGAGACTGGCTATAAGGTAGAAATATGGTTTGGGGTCTTGGATATAGTCATGGGTGCTT  
TGAAGGACTGGTGACAAAGTTTGGACTTTACCTTGCAGACAGTGGGGAGCCATTGAAGAT  
TTTTTTGAGCAGGAGTGCAGGAATCAAAGCAAATTTAAATTTAAAAAATTTAAATTAAGG  
CTAGCAGGATTCAGTTTTCAAACTGGCCAGCTGTGGACTAAATCCAGCCTACAGATACAT  
CTTGTTTGACCAGCAGAGAGGCTTCAAAGTCTTCAATACATTGCCAACACTTAAAAATGA  
GAAGATTAAATATAAAATTTCAAGTTTCCATCATCTTTTAAATATTAGGAGTTCAGCA  
ATGCCGGGCTTTTTCCCCCGCATGATCACTGAGCTGGATCTCATGTTAAAGCAAGCTGT  
GCTCCCGCTGCAGCTCTCTCGGTTCTCTTTTCTTTTACCTACTGACCCCCATATNCATT  
TTTAAAGATTTTAAATTTTATGGATACATAATACTTGNNCCTGCCC

Sequence 1018

CCCTTGAGCGGCCGCCCGGGCAGGTACGCGGGTCCCTTATTTTCTGGTGTTTACTTGGA  
TGCATCAGTGAACAAAAACAAGGTATCTGCTTATGAAATTTATATCATAGCAGAGGAA  
GACTGGAAATGAATAAAATAAATAAGAAATGGAGTTTGTGGAAGGTAATAAGTTCTGTGG  
AAACAAGGAAAACCAAGGCATGGAGTTTGGAGTGCTAAAGTGAAGGTGTGAGAACAGAT  
TGCTCTTGCTCAGTTTTCTGCTTCTTTTGTGTTAGGAAATTTGCATTCTCTGTATGCTTC  
ATTATAATATATACAATAAATATGAATTGTTATAATTTAAGATAAATTATATAAATATAA  
ATTATAA

Sequence 1019

CCCTTTGAGCGGCCGCCCGGGCAGGTACTTAGTTACTCCTTGCCCATAGACGTGTTTGA  
CCTAGAAAAATTTCTTATACGCAACAGATATTCATAGAAATATATATTAATAAAGCTT  
GAAGGGTGAATTAATAAATATTTACTTGGAAGCTACAGTGGGTGAATTAACAAATATT  
TACTTGGAAGCTACTTTATAGCCACTGGGCTGGATTTCATATACAGAGTTCTTGCCCTTG  
GGAGTTNTACAACCTGCTTAACACTTTGTCTATGCTAGAATACA

Sequence 1020

CCCTTAGCGTGGTCGCGGCCGAGGTACCTAATGCTTTAGCCAGGAGCAGAAAGAGAAG  
TGGGCTCTTTGCTTTGAGAGTCTCTGAAATTTTCAATACCCTGGGACAAATTAATGAG  
GTAGATCCTTCTTTGAATTTGTTAATAAAGCATGCTTGTTTTGTCTCCATAAAACAGGCT  
TTGACCATTAAGGTTTATATTTTAAATGGGTAAATTTTATTGTAATACACTAATTTTAAG  
AAAAGAATTAACCTCATGGCTTAAAAGCAAAAACCAGACCTTGGATTTCACCCATAACTTT  
AAGGCTGGTCATTTTAACCTGATTTGACACACTCTTATTATGGTGTCTTTTCTCCTTAT  
TTGGCTAAATATTTCTGACCATCATAGCAATCTTTTCTATAAAGGAAGCAGGCAAGAGAG  
CTAGAGTGAAAAATGTTAAAAACAAAAACAAAAAGACAGCATACTGGCTACCAGTTTTTCT  
TAATTAAGATGATCTGTTTTCGCAATTGCGTAAATTAGAATAAAATGTTATTTAACTCAA  
GGATATTTCTTCACTGAAAGAAAACT

Sequence 1021

CCCTTTGAGCGGCCGCCCGGGCAGGTACTTACAGTCTTAAGATATCCATACACCCCCAC  
ATCCGTCCTTTGTGCTAGAAGATTACTGAANATTTAATTCCATTTATGTCATTGGATTTG  
TAAAAAACCCCTTCTGGATTCAAAGATGAAGGCCTCACTTACTTTATTTTGTCAATTTT  
ACAGACCCCTTATGTAATGCCTCAAGAGTAAAGAATCTTGCTCAAGTGATTTTGTATC  
TCCAATGGCTAACAAAGGAGCCTGACATAGAAGTAGCTGCTTGGTAAATATGTGTTCAATC  
ATTCAACAAATACCCCCCAAGGGACCTCGGGCCGGGGACCACCGCTAAGGGCGAAATTCC  
AGCACACTGGGCGGGCCGGTTACTAAGTGGATCTCGAGCTCGGTACCAAGCTTGGCCGTA  
ATCATGGTTCATAG

Sequence 1022

CCCTTAGCGTGGTCGCGGCCCGAGGTACCGTGTGGGCCACTAATACATAAGCATCTGTGT  
TGGCTGGGGGTAGGTGTAGGGGGTCTTGGGGAGAGATTTAAACAAACCCCTTCTCCTAC  
TTGCAACATCTCTTAAAGCTTGTGCATCATGTTACTTCTTCTTTAGAGTTTCATTTG  
TTTAAAGACGGAAACGTGCTTCATCTTGTTCGCTTTTTCTGCATTCCTTGTAACTTAATA

Table 1

TTCTAATTANCCCCAACACGGAAAAAGAAATGTAACACAACCTGTCTTAGTTGTGCCATAGAG  
TTAGAATCTATCTATTAACATGTTTTAGGTNATAACAAGAAAAATAATAAAAAACAAACCT  
ATTATGAGAAGCTGCCCATGCCAATAAATTTTGAACATTACCAGGAAATATAAAAGGAA  
NG

## Sequence 1023

CCCTTCGAGCGGCCGCCGGGCAGGTACATATATTTCAAACAACATTTTCTAAATTAATT  
AATGTTTTCACTCATAATTATGTGTCTTCCCACTTCTATATTCTCTATTTGGGGAAATA  
ATCCCATCAACCACCAACCGGCCAAACCAGGAACCTGAAACTAACCATATTTCCCTCCC  
ATTGCACATAAAATTAACCTTCTAATCCTACCTACTTATCTTTGAATCCACTCTTCTATTTG  
CAGTGCGCAATACTTAGGGCTTNCCTTACTTTTTACCAGGACTATTACTAGAGCTNCCTAA  
ATGCTTTCTATCTGTAGGCTTACTCTTCTGCATTTCTAT

## Sequence 1024

CCCTTAGCGTGGTCGCGGCCGAGGTACCCACAATGGAAAGATGATCTTCCTGCATTGTGA  
AGGTTGTTCTCATCAACCAAGCCTGCAATGACTAGACATTCTAAAGAGAAGAGTGATGGC  
AATGGAAAGAGGACACATCCGCTTGCCAGGTCACTTCTATCAGTTGATGACATGCCATAT  
TGTTATGGCTAGGTCACTTTCCACAAGTATGCACATGCAAAATAGAAGTTGGGAAAAA  
ATCTTTGATTTGGCCCTTTACCAAGTGGATCAGGTGTGTGAGAGTTCAAGTTGAGCAAAG  
GTCAGAGTTTAA

## Sequence 1025

CCCTTAGCGTGGTCGCGGCCGAGGTACTTGTTTCTCCCTTCGGACCACTCTCCCCACTA  
GACAGCTGTATGGCCGGCTCCCTCACTCTCCTCAGGTCTATCAGAGGGTGCCACTGACC  
TCATTGTCTCAAACATTATATAGAACACACACGCCACCCATGCACGCACACCGTCGTTCTT  
CATCCGCTGTTCCGTGCACTATTCCAGGACCTACAGCAGTGCCTAGAACACAGAACAT  
CCATTAGCAACATTTGTTTAAATGATTTATAGTGCCTAAACCTGCACAACCTCTGACTTTG  
CCTTGCTATTAGAAAATGCAAGGCCAGGCGCGGTGGCTCACACCTGTAATCCCAGCACTT  
TGAGAGGCCGAGGTGGCGGATCACTTGAGGTGAGGAGTTCAAGACAAGCCTGGCCAACA  
TGGCGAAACCTNTTCTTTACTAAAAAT

## Sequence 1026

CCCTTAGCGTGGTCGCGGCCGAGGTACTGAGGCTAATGGTCTTAGTTGGGATAAGGAGAG  
TGGGGAAGGGGCAGGGGGAGATGATAAATTCATTTATCCTCTGTGATGCTATGGAAGAA  
CAATTAAGATCATGTTTCCTACTTGATTTTAGTTGCTAGTCATTTCTTAATCTAAGCACC  
CCCTATAATTTACCTATGTCATCATGCAAAATCACCATCGGTAATAATGTGGGGGCGGGG  
GAAGTCTATACAAGAATATTAAGGCCCTGTGCGTGAGCATGTCTATAGTTAAAGACTTAA  
TGAGAAAGCATCAAATTTGGTGCAAAACAGCTGAAAGTAGAAGTAAATCACAACTGTAATA  
AGATGCAACTTTGGAGGAGCTCAAAGCAACANATACGTTTTTTATCCAAAAGGAGTAAA  
AGAAAAATCGCNACGGCAGTTCCTTCAGATAATCAACNGATGATTTCAATTTGANAACCA  
TAATTAAGTAGCGTTGTTTGTAATAAATTTTTTCATTTATACNTTTTAAATGNTTATTA  
A

## Sequence 1027

CCCTTAGCGTGGTCGCGGCCGAGGTACTAATTCCTTTCTCTTTCCTAGACCGATTCTAG  
TTTGTTGCCTTCCCTTTCTCGGAAACCCCAAGTTTGTGGATGCTGCAGACACTCTGTGC  
CCCCCTGCATGCTGGGTGCCTGGCCAGCTGCCAGGGCATAAAGACAGAGACGATGTGGCC  
TTTGTCCTTAAGAATGAGGTTTGAAGCCCCAGTTCTTCCATGTTAGGTGATTTCTTGCA  
GCTCTTGGTATCTGCAGAATTAGTGTGAATGCTTAAAAAATATTAACAGCTTT

## Sequence 1028

CCCTTAGCGTGGTCGCGGCCGAGGTACTATGGGTGTAGTGTTACTATTACAGTTAATCCG  
TCCTTTGTGTGAAGCTGTTAAATGCAGTGAGGATTGGAGCACTGTCCACTGAATCTCTGT  
GCAACAACCTTACTCGGTGTGGCAGGGGTNTCCNGGTGTCTGGCTCTGATCTTGGTCGCTG  
GATAGNCGNCTGTNTNTCTTTAGGTGCCCAAGGCGACGGC

## Sequence 1029

CCCTTTGAGCGGCCGCCGGGCAGGTACTTAAACATTTAGACTCCTTTGTGCCTTNTGG  
AATGGGAATTGCTTAAGCTGTCTGAAAAAATNGCCTTAAACATCTGTTNGATTGAGATT  
TGTGATACATAGAAGTTGGGAGGAAGATGTCGGAAAGCCCTAAGAGAGCTACTTGCCAAC  
CCCACCATNAGGTCTNCCTCAGTGTTCTAGTCAGGACAGACGAGGCCGAGTCTGAAATT  
ACGATAAGNCTTTGAATGCAGCATAAACAGACC

## Sequence 1030

Table 1

CCCTTTGAGCGGCCGCCCGGGCAGGTACTTTGACCTGTATGTAACTCTAGTTACTTTGG  
TCTTCTCAGGCTCTTGACTCTTTCACAATTAAAGTAGTCTTTGAGGCTCAGCNCTGCTTT  
CCTCATAGCTATGCTATTGGCCTGGACACTCAAGGGAGTATAAGCTNGAGGCCAAACATGG  
ACTCATTGTNTTTCTAACTTTCAGGGGATTATTTGNCCATCATTGCCTGATGTCCAGTG  
TCT

## Sequence 1031

CCCTTAGCGTGGTCGCGGCCGAGGTACCATTGTTTTGTTCAAAATCACAATTTAAATACT  
TCGTGATTTTAGAAATAATTGGAGCCACCGTTTTACCATTAAAGTGAGTGATTGTTTCCAG  
ATACATTTGGCACTGTCCATAGGTTTATGGCTTCCAACCTGTTTAAGACCATTCCCAGAG  
TGAGAGCTGATTTGCCATGGTTATGAAGCTTTCAGGATATAAACTATAAGAATGACAAAC  
TACAGCAGTTGAAAATGTGTCTTCAGATACTCACTTGCAACTCCCATTTATGTCTCTAGG  
GATTGAGAAATGAGGATCGAGGGACCAAATCTGGCTTGGTCAGTAAGAGTGAGGTAACA  
TATAAATATTAATGTTTCGTTGNAGTTAGTGTGGTACCTGCCCGGGCGGCC

## Sequence 1032

CCCTTAGCGTGGTCGCGGCCGAGGTACAGTGGTGTGATCGCAGCTCACTGCAGCCTCAAC  
CTCCCGGGCCCAAGCAATCCTCCACCTCAGCCTCCCCAGTAGCTGTGTTCCAAAGAAAT  
TTATTTATAAAACAGGTGTTGGGCTGGACTTGACCGTGGGCCACAGTTTGTCCAACGCC  
ATTCTGTAAGCTTAACATGTGTTAATTACTGCAATCTGAATAACAATGCTATGATATAGA  
CACTGTGTTCTTTTAAATAGACAAAGGAACCCAGGCACAGAAAGGATTGACTAATATGACC  
AAAGTCACACTGCCAGTGAGTAGCAAGCCTGAGCTCTGAACCATGACAGTTCACATCTTC  
CACGACAGCAGCTTCTCAATGCTCTTTGGAGGGACCAGAGCCCAGGCAGTAGCAACGGCT  
ATGAGGTGGTGAGACATGACCAGCAGATAAGCCCTGGGCAATGGTCCAGAGCTGGAGGGA  
GTGGAGAACTAGCCATTTGTGACTTTGTGAACAATCCCTGGGGGAGTCTGGAAATTA

## Sequence 1033

CCCTTAGCGTGGTCGCGGCCGAGGTACTAGATTGGGTGTGTGATTAAAGAGAAAGACAGG  
AGTCAAAGATAGTTCCAAACCTTTTGAACAGAACACTGGATGAATACTGTTTACTGAGAT  
GGGGAACACTTAGAGAAAAATGCATTTGGAAGCAGAAATACGATCAAGACTTCCATTTT  
TGATACATTAAGCTTGGTATGTTTAAATTCATAGCTATATAGAGGTATTAAATTGGCAGGA  
CAAAATCATAGCTAGAGATAAAAAATTTAGAGTTCACCAAGTGTAAGATGATATTTGATGG  
CACAGGATGGACTTTCTTCTGGGATTTGAGTATACATAG

## Sequence 1034

TCGCCCCGCGTCCGNGNACGCGTGGGCAGGCATTANTTNNNGCCAGTTTATGAGTGTGA  
GCATACCACAGTACTGATTACTGTGAAGCTGAGNCCCATTTTATATGTTNATTGATGTTT  
AAGATTTTCTGTTCAACAAATTTTTCATTTTCTTTGCCCGTNTTTCTTTNTGAGTAATN  
CTTTGTATATTCNGGATGTTGATCATTATGGATTATAAAA

## Sequence 1035

CCCTTTGAGCGGCCGCCCGGGCAGGTACCATTAACTGAGTGAAAGCTTTACAATTGAG  
GGGTTACTCATTAGCAGGACCTGGGTTTTGTTTTAATCTCATTAAACCCCTTGTTACCCA  
TTTGATAACAAAGACTTCAAGGAAGAATTTGCTCAAAAATCTCTGGGAGACAGTAATAGC  
TTCTTGGGCCCTGACTGATAAACTTTTTGCCTCCAGCAATGGAATGTGGGAAAATTCCAG  
ATGCTAAATGATCTGGCTTGGACCCAGCAGGTTGAGGTAGTGGAGCCTTTCGATTGAGGC  
ACAGCCAGGACTGCTGCAAGGGAGAGGCACAACAGAT

## Sequence 1036

AGTCGACCACGCGTCCGGTTTCGAGCGGTACCACGAGGACGCACATATGCTGGACACTCAG  
TACCGCATGCATGAGGGCATCTGTGCCCTTCCCTCTGTGGCGTTCTACAAGAGCAAGCTG  
AAGACGTGGCAGGGCCTGAGGAGGCCGCCAGTGTCTGGGCCACGCTGGCAAGGAGAG  
C  
TGTCTGTATCTTTGGCCACGTGCAGGGCCACGAGCGGAGCCTGCTGGTGTCCACGGAC  
GAAGGGAATGAGAACTNCAAGGCCAACCTGGAGGAGGTGGCTGAGGTGGTCCGTATCACC  
AAGCAGCTGACCTGGGGAGGACCGTATAGCCCCAGGACATCNCCTCAGGCCCTAC  
AACGCGCAGGCCTNTGAAGATCATCAAGGCCCTTCGGCGAGAGGGCATCGCCGGGGTGGC  
CGTGTCTCTCCATACCAAGAGCCAGGGGAGCGAGTGGCGCTATGTGCTGGTGAGCACCGT  
CCCGCACCTGTGCCAAGAGCGACCTGNACCANCNGGCCACCAAGAGCTGGCTCAAGAAGT  
TTCTGGGCTTCGTTGTGGACCCCAACCAAAGTGAACGTTGGCTTTCAACGCCGNCCCAAG  
ANGGGCTCTGNCTGATCNGAGGACCCTTCTTNTTGGCGCTTGTGGCCCTTGGCCGT  
AANCNTNCTGGACNTTTTGGCAGGNTTAAAAAACCTTTTCCCTGGCCGGCCAGGTGCC

Table 1

CCTTNTTCAGGAAGGCCAATNTGCCTTTCTGAAAAGNCTTTTCACCTGCAAGNTGCCAGG  
ACTGGGANGGGAAAGTTNAGGGCCCCC

Sequence 1037

CCCTTTGAGCGGCGCCCGGGCAGGTACCATTTAACTGAGTGAAAGCTTTACAATTGAG  
GGGTTACTCATTANCAGGACCTGGGTTTTGTTTTTAATCTCATTAAACCCCTTGTTACCCA  
TTTGATAACAAAGACTTCAAGGAAGAATTTGCTCAAAAATCTCTGGGAGACAGTAATAGC  
TTCTTGGGCCTGACTGATAAACTTTTTGCCTCCAGCAATGGAATGTGGGAAAAATCCAG  
ATGCTAAATGATCTGGCTTGGACCCAGCAGGTTGAGGTAGTGG

Sequence 1038

CCCTTTGAGCGGCGGNNCGGGCAGGTACTTTGACTATTTTTAGCAACAAATTACTTTT  
GACACACAGCACAAATTGATTTAACACTTCCAATTTTGGAACATTGGATAAATAATGATG  
GGATTTAAATAAGCAATCCGATTCTACTATTACAGCATAGGGTCTCTTGTAGTCCTCTT  
AGTAAAACTATTGTGACACTTCCTTCTTTCTCCAAATATTCGGCCTGGAAAGACCTAAA  
TACAATGCAGGGATTGAATCAAATTCACACATTTTTTTCTACGGAAACAACAACCTTT  
CTTGCTTATATTTAACAAAACTAGTATAGATTCCCTTTATATTAATAGTTATATGGTAT  
TTTTTCTCAGAGTAGAAATCAGGTTTATAGGCTAAAGAATATAGGCTAATTT

Sequence 1039

CCCTTAGCGTGGTCGCGGCGGAGGTACTTAGATCAGATGGATTGAAACATGACAGCCCCA  
TTTCATCTGGCCGGTTAAGGTCCTCATGGAATGAAAAACACTTTCGGGCACTCTCCTATG  
AGAGAGAAATGGGTTTCTTTAATTGCCAGATTGTCTGAACACAGCCTCAGCTACTTCTA  
GGAATAAGACGAAGCAGTGAGGAAGTTGCCAGTTGAGTGATTCTTGGGGAAAAAATTAG  
CATTCAGTGCCAGCTCTCTAAAGTGTGGATTCTGGATTCTGGTAGAAGCCAGTAAAGAAA  
CGTTTTCTCTGGAGTGAAGCTAGTAAGATTTATTCTGTGGTGATGAAGCCATCTGAAAC  
CTTACAAGCAGTGTGGTTGTATCAGCATATGGGAGCTGACTGCCTCAGGACTTTGGAAGC  
CTGCTTCTCTGTGCCTCANCCGGAACCTCAGGTTACTCAGTAGTCATTTGCTAATTTCTGA  
GAACGCANCACTCCTGAAGGGGATAGAAAGCATGAACAATACCC

Sequence 1040

CCCTTTGAGCGGCGCGCCCGGGCAGGACTCTTATCAACTGTTTTATAGATGAGAAAACAT  
TAGCCACAGCTTAGCTTATTTGAAGTCACAATAATATTAAGTAAGAGCAAAAGCCA  
AGATTCAAATGTAGATTATTTACTACAGACTGAGAAACGAATTAAGTAGGAGCCTAAG  
ATACTTTCTGGAATTGAAATGATACATTATATATACCTATAAAGATAATTGGCTATAGCT  
TCCTAAACTACAAATTGTCATAAAATGACTTCTGTCTATATCAATTAGAACTGGTAT  
TAAATTGAGTATTATAAGACAATAGAATGT

Sequence 1041

CCCTTCGAGCGGCGCCCGGGCAGGTACTGCAGGGCCCCAAGAGCATACAAAGCTAGTTAT  
TTGGATCCAAAGTTGGTCAAGTGTGCAGTGTTTAGACATCATGATCTAGGCAACAGAAAT  
TCCTGGCCTGAAATATGTCACTAGTTAGAAACATTAGAAGCTTTCAGGTAAATAAATATA  
AAAAACCAAGTCAACCGTATTCTTATTTCTTCGTCAGAGAATCATGTGTCGTTTGGTTTAA  
CTTCCTGCTGGATTCTGGATGGGAGTTGTTGAACATATTAATCTCATTATTTCTGTAGA  
GGACAGGTTGTCCCCCTTCCTCATTAGCG

Sequence 1042

CCCTTAGCGTGGTCGCGGCGGAGGTACCCTGCTTTGATTATTTCCGAATCCAGTGGGTAG  
AGAAGGTAAAGGCAAGGGCTCACTGGATATTTTTAAATTGTAGGGATGTCCTTTGCTCTG  
GGTCAATTTTAGGATCAAATATAAAGCACCTATAGCTCAGAGTATCTTCTAACATAAAA  
CTTCTGAGATACCAGAAATTTTCCAAAACATGGTATAAACAGTATGAAACACTGGGTAGA  
TAAAGCTTTCTCTAAATCTTAAAGTGCTCAAATATCATGACCTGATTTTTTAGTTTTAG  
AAATCAGATATTTTTCTATTCCATATCTTAACTTT

Sequence 1043

CCCTTAGCGTGGTCGCGGCGGAGGTACCCGTTTGTCCATGGCTATTCCAAATACCCCAT  
GTTTATTTAAATGTATATATAATCAGTTACATAAAAAGAGGTATGCTTAAATCTCATG  
ACTCTATGGTTGGACCTCTGTGGTTGGAGCAGGCAATAGAAATGTCTGTAATTCATTTAA  
AAAAAAGTGACTTTCTACCTTTAGATAGTGAGGACAATCTGTAACTCTTTGTGTTG  
ATAAAGCAAAACATTTCAGGGCACGGTGAAAGAAATCTCTACCATGTATAAGGTTATATA  
TATACCAGAAAGCAGTGGAGTTAGGACCAAATTAAGATTGA

Sequence 1044

CCCTTAGCGTGGTCGCGGCGGAGGTACATAATGTAATTGTTACATATAATTGTTGTATAC

Table 1

CATAACTTACTATTTTTCTTTTTATTTTTATATATAATTTTTTTTTGGTTTGTGTT  
TGTTTTTTAATAAACTGTTATCACTTAAAAAAAAAAAAAAAAAAAAAAAAANGTCCC  
TGCCCGGGCGGCCGCTCNAAGGG  
Sequence 1045  
CCCTTCGAGCGGCCGCCCGGGCAGGTACTTTTCTGGGTTGTGAATCTTGGAGGTTGCC  
TGTCAGACTGGTGAGATCCAGTTTAGCTGTGCTAGCTAAAGCAAGGAGAACAGAGAGAG  
CCATAGATACTTTTGCTTAGTAAATCTTTCTTTGAGGGTAGGGACTGGAGTATGGAACC  
TTTTAGAGGAATGAGAGGGGCTTGTGACGAAAGGGTAGAGGAGGGAATACCTCCCTGCA  
AAATCTTACACAACTAATAATGTCATAAGGCCGAGGATGAGAAAGTAGCACTTAACTGT  
TTCATCCTCATCACATAAAGCATTCC  
Sequence 1046  
CCCTTCGAGCGGCCGCCCGGGCAGGTACAGCACTTTCAAAGTAGTGGAATATAAATCTT  
TCCATTTAACAGCAACATTCAAATATTTCCATTCTGCTTATTATTCCTCTCTGAAGGTG  
ATACATAGAAATATAGGAGCAAACACAGCAATGCAGGCGCTCTATGATCTGGTTTGCTCA  
CATAGATCTTAAAGGAGAGAAGATGAGGGATTTGCCTACAACCCACAGCCAATCTATGTG  
GACACAAAGGGTGACTTCTTCTCTATTACGTTCTTGAGGTAGAAATGGTAAACTAGC  
ATGACCTCGAATCATAATTTAATATCATTCTA  
Sequence 1047  
CCCTTCGAGCGGCCGCCCGGGCAGGTACATTATTGGTAGTATCTCAGAATCCTGCTTAG  
CTTTGAGATAAACCAAGTCATGATATTTTGGGTAATATGGCCATAGGTATCATGCAAGA  
TTGAACTGCCAGTATTTGCCTTTTTCAATATTTACTTTGTAAGAACCCTGACACTGTAGG  
TCCTCACCACACCAAAACCTGCAACATAAACTTCAATTTTGGGCAACTCATAGACCAAAA  
AAGCTAAACAAAACAAAAGGAAAAAACCTCTATATACAATCACCTGCTTGTCTACAT  
TTAATTTGCTTCATTCAAATAAGCA  
Sequence 1048  
CCCTTCGAGCGGCCGCCCGGGCAGGTACAACACTTTAAAAAGTGAATTNTAAGCTATGT  
GAATATCTCAATAAAAAACATTTTTTAAATAAAAAACAATCCCAAAGGCCTGGAAATTCAG  
GAACATAATTCAAAATAATTTATGGATCAAAAAATAATCATATAAGATCTGAGAACTA  
CAATGTAAAAATATAGAAAAAGTCATAACAATATTAGANAAAAATTTGAGCTGGATAAC  
AAAAATAGTACCCTCNGCCNCGACCACNCTAAGGGCGAATTCAGCACACTGGCNGN  
Sequence 1049  
CCCTTCGAGCGGCCGCCCGGGCAGGTACCTATAAAACAAAGGCATCATAAATAGATATAA  
AGCCAGAAGAAAAGGGATCTAAAGTAGACAGAGAAGATAGGCTGACTCTCCAGTTGCAGA  
TTTTATTATCAGCTCATCACACCACCGAACTCTCTGGTGATTGCTATCCACATCCAT  
GGCGTTTGGTGCCCTAAAGATTGTAACGGCCCCCATCCTCTTGTTAAAATGGCAGGTG  
TGTTGACAAGAACTGTCTTAGGTACCTCG  
Sequence 1050  
CCCTTCGAGCGGCCGCCCGGGCAGGTACCTCTCATCTCCAAATCAACTAGACTCTTATG  
TTAAGAATACTAACAAGAAAAAATCCAAACCCCAATAGAAAAATCCCAACAACAACAT  
ATACCTTTAAACACAAGAAATTTGATTATTCAATGAAAGCAATACAAGTAAACACAACAGT  
TACCTTGGCTATTTTTCAATGTACCTCGGCCGCGACCACGCTAAGGG  
Sequence 1051  
CCCTTCGAGCGGCCGCCCGGGCAGGTACCCATCTCTTCCATTCTGGGAATCTGGGAAAC  
TAAGCCTGTAACCTGTAGCTTGTAGAATGAATGATGGAGTAGAATAAATAAGAAAGGAAT  
ATATCATTAATGCACAGGTTAAATAAAATAAAATCTATTAATAAAGAGCCTAAAGAAAG  
AAAGATGACATTTAGCACATATTGGGTGAAATAAGTTGTTAGTCCAGCACTTCTCAAT  
TTTTAGTGGATATGTGAATTGCCATTAAAAATGCAAATTTTAAATTAGTTAATCTGGGT  
GGACCTGAGTCTGCGTTTCCAACAAGCTCCAGGTGATGT  
Sequence 1052  
CCCTTCGAGCGGCCGCCCGGGCAGGTACGCGGGTATAGCTATATACTCATATTTTTATT  
TTTATGTAAAAATTTCCAAATGCTTAATATGGCAGTATAATAATTATAACTAGATTTACT  
TCAAAACATAGACATAAAGAAGATTACATGCCTGTAGAAGTTCATTGAATTAGGAATCAC  
ATGCTATTTATTTAGCAGATATCTTCTTAATTAATGTTTGACCCATGTGAAGTCATT  
AACAGATCTGTTACGCATTATTCACATATGCAAAATAATCTATATGATCTGAATACCATT  
TCCATCTTTAAATTACATATTCC  
Sequence 1053

Table 1

CCCTTTCGAGCGGCCGCCCGGGCAGGTACAATCAAAAAAGACAAAAAGAAATGGTGT  
AAAAGCCACAGTAAACATAAACCTCATATCAAGTATAAAACCACACACACTTTGCTCTTC  
ATCCGGACAATGCCAAAATTATACTGAGGTATTGGGGTGGGCTGATACCTTCAAACAGG  
GAGAGAGGGGACCATGTTTCAGGAGGTGTATTCCTCGATTAGGTGGTGACTGAATTTTTT  
TTTTAAGACAGGGTCTCACTCTGTCACCCAGGCTGGAATGCAGTGACGTGATCTCGGCTC  
ACTGCAGCATCAACCTCCTGG

Sequence 1054

CCCTTCGAGCGGCCGCCCGGGCAGGTACAATGAAAATTACAAAATACTGTTGAGAGAAAT  
TAAAGAAGACAAATAAATGAAAAGAGACGGAACATGTTTTCGCTTGTAACCTCAGTAGG  
ATTAAGATCTCTTCTCTCCACGACTCTATAGCTTTAAAGCAATCAAAATCANACTGGTT  
TTGTCTGAACGTTTTGAATAAGTCAATGGCTTATTTCAAAATTCATATGAAATTTCAA  
TGCCAAAGANTAGGCAAAATATTTAGAAAAGAAAGATTGAGGATTTGCAATAACCT  
GACTTCAAACTCACTAGAAGAACGAGGCCAGACTGCCAGGGG

Sequence 1055

CCCTTAGCGTGGTCGCGGCCGAGGTACCCACCACGTTTCATGTCTCCTCTAGCCAACTATA  
AAGTTATTAACACAAGAACCCTGTCTTATTCATCACAGTATCACCCACAGGGGCTGAGAC  
AGTGCTTACACAGAAATGGCCCTTGATAAAATATGGGCTGAATGAATGAACATATGAATT  
TGACACTTTGAGAACTAAATTAAGTTATTTCTACTAGCATTTTTAACACAAGAACTAT  
TGAGATTACTTATATATTAGTAGTAAATGTTTGCTTTATTCATTTTGATTGCAAACTT  
ATAATGAACCTCAGTGAACCTTGNCCACCTTTTT

Sequence 1056

CCCTTTCGAGCGGCCGCCCGGGCAGGTACATTAACCTCACTGACTTACTCTGGGTTGCTAT  
TGTATTAATTTCTGTATAGACATTACGTAGCCTCAGAGTTGAATTTGGACTGCCCTTAA  
AATAAAAAATTTCTAAATCTTTAGTGTGGTGTCTATTAATTTTTATGATGATTACAAGT  
TGGAAATGATTACTTTGCAAGTCATAGTTTACTTTGAAGTTAATAAGAGTGATTACAGTA  
AAGGAAAAATGCCATATATGGCATTGTTCTTAACAGCTTATGAAATTTGAAAACGATAT  
TTAGAAAGCTTTCTCTTGNCTGGCTGGAATGAAGTGAGACCCTGCT

Sequence 1057

CCCTTCGAGCGGCCGCCCGGGCAGGTACAGCTTGTTTCAGGATATTTCTTCTATTTTTCT  
TTGAGTTCTTGTTTCATATTTCTAGTTAATTTCTAGTAGTTCTTAATGTATTTTAACCAATA  
GACTTTTGCTTCTCTGCTTATGTATTCCTCGTAAATGCTTTTTGTGACTTGTCTAAG  
TATAAAACATTTACTATTAGCTGTAATTTTCTATTTTATGATGTCATCACTTTTTT  
TTGTGNTTATGATGATTAATGGTTTTTCACTTGAAAAGATATTGAATAGTCTACTTCA  
TTGATTTTTTTTTAAAGTCATTTTCATTTTTT

Sequence 1058

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTATACCAGAGTTAAATTGCCTGTGTTCTTTT  
CTGCCATTAACCTGGCTTTGGGTTGGGAAATTCAGATAATTCACCTTTTCCAACCTTAAAA  
TGAGATCTCATTCAAAACAAAATTGCCACAACCATTTGGAATATGTGTTTAAATTAGAC  
AGTAATGCTTTGAAAGTGGAATTAACATTTTCAAGATAATAGCTGTTAGGCCGGGCTCA  
ATGGCTCACGCCTGTAGGGAGGCTGAGGCAGGTGGATCACCTGAGGTCAGGAGTTCGAGA  
CCAGCCTGGCCAACATGTTAAACCCTATCTCTATTAAAAATACAAAATGAGGCATGGT  
TGGCAGGTGCCCGTTGTCCAGCTACTTAGGAGGCTGAGGCAGGAGATTGCTTGAACCA  
GGGAGGTGGAGGTTGCANTAAAGCTGAGATTGCGCCAGTGCACTCTAAGTTGGGCAACAA  
GAGTGAGATTCTGTCTCAAAAAATAATAATAATTAATAATAGTTGGTAGATTGAAC  
ATAGAAAACACGTTTTGTAGATAAAAANTGGCCAAGNTTAGCCACCTTTGACAATTTTT  
TAAAA

Sequence 1059

CCCTTAGCGTGGTCGCGGGCCGAGGTACTTTAACAAATTAACAAATTTTAAATTTAA  
ATATTTTAGAAATTTTACTTAATACATTTATTTAATGAAGGCTGCTTTTAAAGACTTTAA  
ATCCTCACGTAAACACCACCACCTGCAAAGTATTAATATCAACTTTTCAACAAATGCC  
TGCTATGTATAAGCTACTGAAAGAAGACAAAATTAATAAAATGTGTCCCTCCTCTAGA  
TATCTATAATCTAGGAAAATGAACACATTTCTTTCAGACACTAACTCCATAAGAACAGG  
CATCAGATCTATCTTATTTACCACCATCTGAGAATGGAGCACAGTGCCTGACACATA  
ATAGATGCTCATAATAGATGCTCAGGGTTTATAGTCAGTGAATAAGTAAAGAAATGAGTG  
AGCAAATATCTCTTAAAAAGAACAGACTTTTAAAGTTAACAAGCAAGTGATGTGTTATTC  
AGTAGCAAATAAGATTGTTTCTAATGTCATAATTCAATTTT



Table 1

## Sequence 1060

CCCTTCGAGCGGCCGCCCGGGCAGGTACAGTTACCAAACCCATCCAACATAAAATTTAA  
GCTTTTTGCATTTTAGTGGATGCAAATTGTGCTTAGTAAGAAGAACATACAAAACTAA  
GAAAGATAATGTTGAAGAAAAATAACAAAGCTTAAGGACTTAACTATTACCATCAAGACA  
TGATAACTACAGTAATTTTAAAACTGTTTTCTTGCATAAGTATAGAGAAATGTACCTC  
GGCCGCGACCACGCTAAGGG

## Sequence 1061

CCCTTAGCGTGGTCGCGGCCCGAGGTACTTACGCTTTATGATCTTGAATATTTTCAGNGT  
NTAAGGAATCTCTTCTTCTTTGATCTCCACTGCATGAAGAACTCTGTTGCAGGTGTTAA  
CAAGGAAGTTTTGAAATACAAAGCCAGAACCCTGCCCCCAAAGATCTGACAGTAGTANAA  
GGAGATCCATTTTGAAGAAGGTATAATGGCAACC

## Sequence 1062

CCCTTAGCGTGGTCGCGGCCCGAGGTACTTTAACAATTAACAAATTTAATTTAA  
ATATTTTAGAAATTTTACTTAATACATTTATTTAATGAAGGCTGCTTTTGAAGAACTTTAA  
ATCCTCACGTAAACACCACCACCTGCAA<sup>A</sup>GTATTAATATCAACTTTTTCAACAAATGCC  
TGCTATGTATAAGCTACTGAAAGAAGACAAAAATTAATAAATGTGTCCCTCCTCTTAGA  
TATCTATAATCTANGAAAAATGAACA

## Sequence 1063

CCCTTTNAGCGGCCGCCCGGGCAGGTACACAAATCTAGGNAATCTAAATTATTTAAAT  
GTCTAGAATTTTTTTCTTTTATGAACCANATCACATTTCTGGACATGCTAACCATTAAA  
ACGGNGAAGCTTCAGCTTGGTTGTTATTCTTCCATTAACTGTTTCAGAAACATTCAGGC  
GGCAGATAACTCATTTGGATTGTTAAGAAACACCAGGTTTTCCAGATGCTACATTAACAC  
CTCATAGAAGTGGTCTTTTCATATGTATGTTATGNATGATGTNAACCATAATATATGGN  
TAAATTTTTAGTAGGAGTTATCCTTTGCTTTTTATAATTTCCAGTTTTNNCGNNAACGTA  
ATTCTTTTTTCGGATTCTTTTTTAGGTAAAAATGGTCCCCATTANTTTAAAGGATAA  
AAATAAAGTCTTACTTTTGAGTCTTTTAAGNCGTNNAATTTTNGCCANTNNTGTTCCCGTT  
GGAACNAGAAAGGTNNNTAAANCCNTAAATTTTTGGAAATTAACNGCCNTTTNAAAGNN  
ATGGAAAGATTCTTCGACCACCNNGNTTTTANTAAAAAACNTAAANTNGAATCCNGAA  
NNAANGGGGGGNGNGTACCCGNGGGNTTATTNAAACCTTTAGNANGNTTTNTTTTTNT  
TCTGGCTTTAAAAATTANTGGNNTTTTGCNNTAAGGGCCAGGAAACCNATAGGGTTTTGGA  
AAAANCNAAAANTGGCCTTNGGGGGCTTNTTCNAAACCCGGGGCNCCAAAAANAAAAA  
AAAAA

## Sequence 1064

CCCTTTGAGCGGCCGCCCGGGCAGGTACTTACTACAAGCAGCAAAAGGAAGCTCTAGAA  
CAAGGAATTAAACACAGTGTTTGTTCCAATCGCAGAAGAGGCCATGAGCACCATATGTG  
TGTCAGGCTTATCATCTGAACCAAAGAAAGGCCAATCCTTCACCTTTCTTATGACTCTTA  
TAGGCTGCAATATTTCACTTGGCCATAAACCACTTAATATCTCACACCTAGTAGATTCA  
GTGACACAGAAAGGGAAAGAGAAAGGATGAAGAAAAGAGGAAAGAGAAATAATTTNCCCA  
AGATACAAATTTAATATTCTTTCCAAAGCATAAGAACAATTAATAATATATTCTCTGNT  
GNAAGTGGAGGATGGA

## Sequence 1065

CCCTTAGCGTGGTCGCGGCCCGAGGTACATTGAACAATATAGTAGTCTTCCCTTTACAA  
AGCTGAATTAAGTAAAAGTGTGTGTTGGGAATAATAGGGGAATGTGGATTGTAGCTGTT  
TAATAAAGATTTAGATACATATAAAATTGCTTAAGGCCAGGCGCTGTGGCTTACGCCTAT  
AATCCCAGCACTTTGGGAGGCTGANGTGGGTGGATCACCTGAGATCAGGAGTTCGAGACC  
ACCCTGTTCAACATGGTGAAACCCCATCTGTACCTGCCCGCGGCCGCTCGAAAGG

## Sequence 1066

CCCTTAGCGTGGTCGCGGGCGNGGTACCCACATGATCCCAAAGAGGAGGGGCCCTGTAGA  
AACAAGAACCAACCAANAAAGCAGTGNCTACAGGCACCATGACAACAAAAGGAGTTTT  
AAAGTGCATCTTCAAATAGCACACAATTTTCCAATTTAAATAGTTTGAATGAATCAAN  
GGGAANAAAGCATTANTTAGATACAACTGAATTTCTCAAAAGTATATTANCACAGCCTAC  
AAATAAATCCTTAAATGTA

## Sequence 1067

CCCTTAGCGGCCGCCCGGGCAGGTACCTCCGTGACTTTTCAGGGTCTCCTGGTTGAATG  
AATTTGCANAAGGATTAAATGTGTGTTCTTATTTGTGCTTTGTATTCTCCATAANTAG  
TGTGTTGGAGGCTATTAGAATAGCTGAGAGGGTAAACATAAACACATACGTANGAGCCT

Table 1

GACATAAACACATAGGTAGGAGCCTGCCATAAGCACCGTAGGTAAGAACTAAAAGGGTGT  
GTTTCCATTTTCANGNGGTCCAGNCCTTCCTTNCATACTCTNAGATGACAAAAACACAAAG  
TTGCTGGAGCTCACACAACTAATGACTAAANCCAGAAAGTTTGGACATGGAGAAACATTT  
TT

Sequence 1068

CCCTTAGCGTGGTCGCGGCCCGAGGTACTATATTAGTGTAGCAATTTTCCAAAAGCCATT  
CATCTTAGAGGGCTAAATGATTTTACCTTATCAATTCCTCCTGTGAAAAATATCTCTAA  
AGAGGTTTTCTGCTGGAAAAATATTGTTGCTGTACATTGATATGCCAACAAAAGCTAAGC  
AGGGAAGTCAGGCCAAGAAATATCTNCCTGCAAGAGAAGGCATCGCACATGTATCTCTCC  
ATGCTATTTAAATTTGCATTCTGCAACATAGAAGGGATAGGCCATGCTGCAGAAGCCAG  
GTCCAGGAAAAGCTGCTTTCTTTGGCCNTTACACATCCTTTTTGGAGAAGATGCTGGTGAA  
AGCAGCAACTACCATCTGCCTCCTGTTGACTTAAGTGCAACAGGTGGAAGGGGANGAAGGA  
AGGGCATCGCAACATCATTCTATTATCTCAACCTTGCTTTTCTCGG

Sequence 1069

CCCTTAGCGTGGTCGCGGCCCGAGGTACCCTGCTTTGATTATTTCCGAATCCAGTGGGTAG  
AGAAGGTAAAGGCAAGGGCTCACTGGATATT TTTAAATTGTAGGGATGTCCTTTGCTCTG  
GGTCAATTTTAGGATCAAATATAAAAGCACCTATAGCTCAGAGTATCTTCTAACATAAAA  
CTTCTGAGATACCAGAAATTTTCCAAAACATGGTATAAACAGTATGAAACACTGGGTAGA  
TAAAAGCTTTCTCTAAATCTTAAAGTGCTCAAATATCATGACCTGATTTTTTAGTTTTAG  
AAATCAGATATTTTTCTATTCCATATCTTAACTTTTCATGTTAAATTCTAGTTCTGACAA  
TG TAGGGTCTATTTTTTCAGGTGATTGTTGGGAGCGTATAGAAGCATATATAAATATG  
GAATATGCTTTCTTTTTTCCCCTTCTGAAAGAAAGTCAAGCCTCTAATCAAATAGATTG  
ATGCTTCAGAACTTAACAGAATATTATCTGCAATTTGGCATAAATGCATTTTTCTTGGG  
GAAGTTTCCATGGTCAAATATTAGTCAATTGCAAAACAGAAAAGTTTGACACCTGGAA  
TGCAGACCTTTTGCTT

Sequence 1070

CCCTTTGAGCGGCCCGCCCGGGCAGGTACATTATATTAATGAAATTTATCTAGTCCTTGCA  
AAGTTGTGCCTATTGATTTTCATTAGTGTAAACTAAAGAGAGAAACTTCACACTGACATT  
TATAATTGTAAGAACTAAGAACCAACCATCAGCTTTTCTATGCCAATCCATGCCCTTCAG  
GAAGTTCTTGAGGCCTTGAGGTTGCTAGTTTAGTAAATTGCTTACTGGGACATTAAAGCA  
GCTACATTTTTGGAAAGANGGAGAATTAAGTTTTTGTTG

Sequence 1071

CCCTTAGCGTGGCCGCGGCCCGAGGTACCAAACTGAAAAAGATTGTGTATCCAAACATT  
ATTTACATAAAATGTATTTTGATAAAGTAAATCCCAAACCATGGTGCTCAGAGGTTGT  
AACAGTCCATGTAAGTTGAAGAAAAAGAGTTATCAATCAATACGTGACTATCAATCATT  
ATTTAATCATTATTTAGTTTTACATATCTAGAAATTTCACTAGAAGAACCAGCCCTTCA  
TAAANGTGGCCATTCCCTATACCTGCCATCGATTACATTATTTTACT

Sequence 1072

CCCTTAGCGTGGTCGCGGCCCGAGGTACTTTTTTTTTTTTTTTTTTTTGGAGACGGAGTTT  
CACTCTTGTTGCCAGGCTGGAGTGCAATGGCGCAATCTCAGCTCACCACAACCTCTGCC  
TCCCGGGTTCAAGAGATTCTCCCGCCTCAGCCTCTTGAGTAGCTGGGATTACAGGCATGT  
GCCACCATGCCCTGGTTAATTTTGTATTTTGTAGTAGAGACAGGTTTCTCCATGTTGGTCC  
GGCTGGTCTCGAACTCCCGACTTCAGGTGATCCTCCTGCCTTGGCCTCCAAAAGTGTGAC  
GATTACAGGCGTGAGCCACCACGCCCTGCTTAAGTTTTAATAAGATCTCTTGGCAACTTT  
TTACGACTGGCAACTTAGGTCTCACAAACACAGAAAAGCTTGTCTTTAAGTATATTGTCT  
TTGAAAAGTTAATACACTCTCTAAATGCTCCATTTAAATGATTACTTTATAAATGCAT  
GCACTGAGAGAAAAGATATTTGAATGATATACACCACAATGTTAAATTAAGTGNATTGT  
TTCTAAGTATTGGCACTATGGNCAATTTCTTTTTCTTGGTTATGCTTTTCTGAGTTTTC  
AAAC

Sequence 1073

CCCTTAGCGTGGTCGCGGCCCGAGGTACCTATTGTATCAGAAAAATGCTAATTAATTTTTT  
GCACATAAAGGGCATTTTAAACTTGGTTTTATTCTTTGTGATAAATATGGATGATGAATG  
GTAATGTTAAACAGAATTCAAAAGTTATCAGTTTGGCTAGCCAGACACAGTAGTATATGC  
CTATAGTCCTAGCTACCCAGGAGGCTGAGGCCAGAGGAGCCCGGAAGTTACAGTTTAGCC  
TGGGCAGCATAGTGAGACACTGTCTTTTATAAAAACACAGCAAAAATGATCAGTTTGGG  
ATAGTAAGACAAATGGCTTTCTTTTGTAGGAATTTCTCTATTTAAAGGACTTTTAGGCC

### Table 1

TAGAGTGGTGGCTTACGCTTGTAATCCCAGCACCTTTGGGAGGCCAATTGCAGGAGAATCA  
CTTGAGGCCAGGAGGTGGGGAGCCAACTCTGGGCAAGTAGGGAGACCCCTGTCTTTNCAA  
AAAAATTCAAAAATTAGCCAGTAGGGGGGNGCTTGCCCTNGGGGTCTAGCCACCTGG  
GAAGGCTTGGGGGTGGGAANAATTACTTGGGCCNANGAATTTGANGGTGTAGTNGAGCCT  
TTGATNCCCCGTNAACCGAGTANAAGACCCTTNTTTTNTNAAAAACTTTAAANTTNAAC  
NTTTTTTA

## Sequence 1074

CCCTTAGCGTGGTCGCGGCCGAGGTA CTGGGTCACTCTGCCCCAGCTCTCCAAAGGCATC  
AAGATCCGACTGCTAGGAGCCCCGGCTTCTTCCCTGACCTGCCCGTCTCCTACACCCTCT  
GGTCTGTCTCCACACTGGTCTAATAACTGGTGTTCCACATTCTCTAACGTGCACAACAC  
AGTCCTGCCCCCGTGCTTTTCACTCTGTCCATTCTCTTATAACG

### Sequence 1075

GATATCTGCAGAATTTCGCCCTTCGAGCGGCCGCCCGGGCAGGTACTCTTCAAAGAGGATA  
AAGTTAAAGAGAAATGACTAGATACACATCAAATTAAGCTGCTGAAACCAAAAAACAAAGA  
AAAAATTTTTGAAAGCAGCTAGAAAAAATTCACACCACACAGAGGGAATGAAGGTTTA  
CATTACAAAAGATTTTTACCAGAAATCAGAGAAGTGAAAGACAGCTAAATGGCATCATT  
GAGGTGCTCAAGGAAGCAAGCATCTACTCGGAATTATATATCCACCTAAAATATCCTTTA  
GGAATGAAAGTAAAAATAATCATTTCTCAAAGAAAAACAAAGAGAATGTATGCTCCACGAG  
ACTGATCTGCTAGAAAAAGCTAAGGTCAACATTAGGCTGAAAGGAATGCTGCATCTTCAG  
GAATGAAGAAAGAGCAATAGAAACAATAATATATAGGAAAAACACAAAATAC

### Sequence 1076

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTCACTGATTTATGGCAAGTCAGCCAATCCA  
TCAGTGCTCAAAGCTCCTTGATTGTCAAGNATGNNNTNNCATTATTTGTCACTCATTAG  
AATTAACCTGCCAACTAGTAGCATTTGTTTTGTGCTGATAGATTCTTCATGACAGAAAGA  
ATAAGTAAATGAGATGGGACCAAACTGAGTATAGCATTGTCACTATTTTGTCTGCA  
CAGATTACTTGCAGAAATATTCTAGTCTGGGGCATAACAAATCCAAATCCAGATT  
TAAAAAAGTAGGTCTATATAAAGCCTTATTTAATTTGGTATTTTTTAGGTACCTCA  
TTGGGNGNNCCTTTATNATGCCAAGGCATTTTTTGGGGATCCTGGGTTCTTAATTAAAA  
ATAGGAAGAAATCTTAACATTNCNGTGGTGGATTAAGAAACNCCNCCCCACCCNTTTTT  
TTGGATTAAANGNGNNTATTAAGTAAAGCTTACCGTTNAAGTAAGCTTCCCAGAAAAGAA  
AATNTTAA

Sequence 1077

CCCTTAGCGTGGTCGCGGCCGAGGTACAGAGTAACCATGACTTACTAGGTGTTATGATGA  
AGGTGTATGTGTGTATATGTGTGCATGCATGTAGATAAGTGTGTGCATTTGCACACAT  
AAGAGTTTTAAGCTGCTCCTGTCATTTATTGATGGTCAAAGGTTCTTTTGGCTATTGCT  
GGACTCTTAAGATTGCTCTGTAATTGTCTTTTGTGTTGTTGAAAAATAAGGCTGTATA  
TTAAAGTAGTTTTACCAGATCTTATATGTGTGATAGCTACGCTGTGTAATCAGAAAC  
CTACTGTTTAATGGCCACCCAATTGCCATTAGCTTCCTAGAGGGTGATTTAATAAACTAT  
CTTCTTTAAAACTCATTTAAAAATTAAGAGACATGTTTGCATACAATGGATTAATGACGTT  
TTCACACTAACCCCAAAAGTCTGCTTGCACTTTCTTTGTAGGCCTAACATTCATTTCA  
ATGCATTGATTATTATTGTAACCTTGCATTAATACATCGNGCATATATGGACATACAA  
TGTCATCTGCAGAAATTAAGGATTTTTTA

### Sequence 1078

GAATTGGGCCCTCTANATCNTTCTCNACCGGNCGCCANTGTGATAATTCTCCTNTAATNN  
GCCGCCCGGGCNGGTACAGACTTTNGTTCCTTTGCTTTATTTTTTTTTTTTTTGCATN  
GATATGAATAGTTTCACTAATTCATTATGTTCTGTAAACNTTCTTAAACCTTTGTTT  
TAGGGATTATCAGAGTAACAAAAATAGTAGTCCCTTTATGGGACATAAGTAACCTAA  
TGTCTTTCTTTCCCTATTTTCATATCCCCATATTTGGTGAATAATTTAATTCA

### Sequence 1079

CCCTTAGCGTGGTCGCGGCCCGAGGTACAGCTCACATTCATGGGGAGGAAAATCAGGGGCC  
TGCTTTTAGATAGGAGATGTATCAAAGAATTTGTGGACATATTTTAAAATCACAGCACTA  
CTCTTGATGTACCTGCCCGGGCGGCCCGCTCGAAAGGG

Sequence 1080

TAGGGAGTCGACCACGCGTCCGCTGCCTCGCCCAATGGGCTCATAAACAAAGTGGCCATG  
GTGGCAGGGATAGACTTTCTCAGCAACATGGACTTTCACTACCAAGGCAGACCTGGCTA  
CAGCCACTGCTGAGTGCCCCATTTCCAGCAGCAGTGCCCCAACACTGAGCCCTTGATATG

Table 1

GATCATTCCCTGGGTGATCACACAGCTACATGGTGGCAGATTGATTATATTGGACTTCTT  
CCATCATGGAAAGGGCAGAGGTTTCTCCTCCCTGGAATGGACACTCCAGATATGAGTTTG  
CCTATCCTACACGCAATGCTTCTGCTAAGACTACCATCTGTGGATTACGGAATGC  
Sequence 1081  
CCCTTAGCGTGGTCGCGGCCGAGGTACACCGATGTGGCTGACATTTGGCTGGAGTCTGCT  
AAGATGTTTTCTTATNCTGGATGGACGACAGCTGTAACACCCTGTTTTTCATCTTCTCC  
ACCATATTTTTATCAGCCGCTCATTGTTTTCTTTCTGGATTTATATGGCAGCTG  
ATCTTGCCTATGTATCACCTCGAGCCTTTCTTTTCATACATCTTCTCAACCTACAGCTC  
ATGATCTTGCANGTCCTTACCTTTTACTGGGGTTATTACATCTTGAAGATGCTCAACAAG  
ATGTATATTATGAAGAGCATTCCAGGATGTGAANGAGTGATGACCAAGGATTATGAAAA  
GGAAGAGGAAGAAGGANNAAGAAAGAAAG  
Sequence 1082  
CCCTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTNGCTGGTTA  
ACAAATATTTTAAATTCATTAATAAACTTAAATTCATGCTTAGTCTACACAAGTTT  
AAGATTTTATGTCATTAGTGAATTGTGAATTGGCTCCATTAGTGGTCAGGANAATGT  
ATTTGGTGTAANAACCAATAAATCAAGCTATTATCGCCTTGTGAGTACCTCGGCCGCGA  
CCACGCTAAGGG  
Sequence 1083  
CCCTTCGGCCGCCCGGGCAGGTACTGGGAAGTGCCTTGGACGAACAAAAATAAAAAA  
AAAAAAAAAAAAAAAAAATTAATAAANGGAAAAAAAAAAAAAAAAAAAAAAAAAAT  
NNNTTGAATAAAGGAAACANNANNGCGGTTTTTAAATTTNAANCATTNN  
AAATTTTTTAAANNANCCNTTNAANNNTNNNTGAAATGTGANNTTNNNNNGAATNG  
ANCNTNNNTCTTNTNTGGNTGATTTTTTATGTGTTCCAAATNGTTTTTTTANNGAANA  
AAAATTTTTTTTNGAAGNTANACNTNNATTNAAANNATTTATNCNTNNTAAAAATTN  
AANAATTTTAAATNNTAATGNNNTTNAANTTTTAAATTT  
Sequence 1084  
CCCTTAGCGTGGTCGCGGCCGAGGTACACATTTTCTGAAATGTCCCCGTGATTAAGTT  
GTGAACAAATGAACATGCCACATGTCAACAACTGAACAAACATGGATTGTTAGTGACTT  
ANAGGTGGAGGGAGGGCTAGAGAGAGGCTAGCTGTGTTGGTCTGCCAATCTCCTGTGTCC  
CACACTGGCTACAAAAATACAACCACTGGGTAGGTAGGGCTCATCTAGAACCAAAATTAG  
GAATAAGGATTGAGAAGAAAACCTCAGCAAGGGTGATGAATGAGTTTCAGCTCATTGCTGG  
AGTTAGCTGAAGAAATGAATAGGACACAGTGGATGAAGGAACAANGCTATTCCNNGGACCT  
TTTGAAG  
Sequence 1085  
CGGCCCGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCGAGG  
TACCACCTAACAAATTGGAGGAAATGAAAAGACGAATCAACAACATTTTGGAGAAAAAT  
TTATTCTACTTCTAGAATTTCACTACTACAAGTGCTTAGTTCTTGGTTTGGTAGATGAAG  
TGAAATCAAAATTGGATATTTGGAACATTAATATGGGAGCAGAGAATCTGTGGAATTAT  
TGCTGGAAGACTGGCATAAATTTATTGAAGAAAAAGAAATTCCTAGCTCGACTTGATACTT  
CTTTTCAAAAATGTGGAGAAATTTATAAGAATTTGGCTGGAGAATGTCAGAATATTAATA  
AACAGTATATGATGGTGAATCTGATGTTTGTATGTATAGAAAAATATATATAATGTGA  
AGTCCACTCTACAAAAAGTGCTGGCATGTTGGGCTACTTATGTGGAACCTTCGCTTAC  
TAAGGGCTTGCTTTGAGGAGACCAAGAAAGGAAGAAATTAAGAGGTACCTGNCCCGGGC  
GGNCCGNTCTAAAAGGGC  
Sequence 1086  
CCCTTCGAGCGGCCGCCCGGGCAGGTACTTTNTTTTTTTTTTTTTTTTTTTTGGAGAC  
AGGGTCTCGCTCTATCACCTAACTGGAGTGCCTGGTGCAATCTCGGCTCACTGCAACC  
TTCACACCCAGGCTCAAGTGTCATCTCCCGCTGAGTAGCTGGAACACACAGTGC  
ACCACTAAACCCAGCTGTTTAATACACCATTTTAAACCAAAACATTAAGAAAAATATAG  
GAACAGTAAGTAGATTCAATTTGTAAACAGACAAGCTTACAAGTTTTCTCAAATATGAAA  
GTCATACTAACTGGGAGACTGTTAACTTCTTGATGGGGTTAATCTCTAATATGAAGCCA  
CAGTCATAGCTAACTACAAATTACATATACAATGCCAAAAATAT  
Sequence 1087  
CGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTAC  
CCAGAAGGGCAGACTTCAACCCAGAAACAACTGTGAATTGTGATGGAGAGATGGGCTCTA  
GTATCTGAACAACGAATTACTTATAGACTACTTTCTTTTCACAGAACAATGAGCTT

Table 1

TCTTGGCTTTTAAACAAAATTATCATTGAAAACACAAAATTAAGATCACCCATAATCCCA  
GCATTGAGAGGGTTAATCTTTTGTAAAATCCTTCCAAAAGTCTTAAATGTGTTTATAT  
GCCTTTTGGAAAAAAATTTATTTTATAATCATTTNGGATTACAGAAAATTGACAAAGA  
TAGTACCTCGGCNCGCGACCACGCTAANGGCGAATTCC

Sequence 1088

CCCTTNCNAGCGGCCGCCGGGCAGGTACATCCTTTTGCATGCTCAAGAGCCCATTCTTT  
TCATCATTGGAAGCAACAGCGGCAGTCCCCTGCCAAGTTATCCCACTAGCTGATTGCT  
ATATCATTGCTGGAGTGATCTATCAGGCACCAGACTTGGGATCAAGTTATAAACTCTAGA  
GTGGTAAGTGCTTTCACATTCTTTAAGCACTAAAGAAAACCTTTAATTAGCTACCTTGCT  
TCCAGTAATCAAACCTAGAGCTCCTCTGCCTTGTGTAAAGTTGCTATAAAGTATTGACTATT  
AGAATGCTTGAACCTTTGGTTACTGTGAGCCAAGTCGGTGCTCAAAGTATATTTTCATAGT  
CTCAATTATATAGTAATTTAAGTTCTGAAAAATAGTTCTGGCTTTGCTATGGAAATATT  
TTGNGAGTATTACTTTGGAA

Sequence 1089

CCCTTTCGAGCGGCCGCCGGGCAGGTACATATCCCTATCTACTATGTAAAGACAAAAA  
GGCAAATGAAATGATGTAATACAATGAACCTCTCAGAAAATAAGCTCTGTAAATCTCAG  
ACTGCCTGTTTATCATATGCTAGAGTAACTTACATTCTTTCTTGTAGAGAAAAATGA  
TGGTAAATCCATGCATTAATCAAACCTAAAAACATGAAAAGGCAAGCCAACCTACAAGAG  
AAATACAGTTGGCCCTTGAACAACACAGATTTGAACTACATGAGTCCGTGTACCTCGGCC  
GCGACCACGCTAAGGGCGAAT

Sequence 1090

CCCTTTCGAGCGGCCGCCGGGCAGGTACCGTGCAGAAGAAGCTACCAAACAGCAAATAT  
GGAAATAGTCAGTTTTTTTTTTTTTAAAGCCTCAGTAGAAGAGTGCAGAGTTACACTGTC  
CTGTTTGGGGTGCCCCCTCCCCCTTNCGACCTAAGTGCTGCCAAGG

Sequence 1091

CCCTTAGCGTGGTCGCGGCCGAGGTACCTTTGCAGTTTTCTAAGGGCTCTTAGTGCTTTT  
AACTAGAAAGGGGTTTTTCGTTTGTGTTTGTGTTTTAAAGGGTCTTAGTGCTCTTAC  
TCCCTTCTGTAAATCCTGTGTAAATGACAAAAGTGCACAATTGATCATTGTAAGTTC  
TAGTACCTGCCCGGGCGGCCGCTCGAAAGGG

Sequence 1092

CCCTTTCGAGCGGCCGCCGGGCAGGTACGCGGGATCTAAAGTTGGGGTGGAAGGAAGG  
AGAAAAGGGGATTGATTTTAGTGGAAGAACAAGAATGTTCTGAAATTGATTGTGATGGCT  
GTATAATCCTGTGAATATACTAAAACATTGAGTTGTGCACTTTACATGAGTGAATTGTGT  
GGTATGTGAATTTATATCTCAATAAAGCTATTTTTAAACGAAAAAAAAAAAAAAAAAAAA  
AAAAAAAAAAGGTNCCTCGGCCGCGACCACNCTAAGGG

Sequence 1093

CCCTTAGCGTGGTCGCGGCCGAGGTACAGGTACCTGTATCTTGATCACCAGAGAGCAC  
ACCAGCCTGGACAGCAGCACCATACGCTACAGCTTCATCTGGGTTTATGCCACGGGATGG  
TTCCTTGCCATTGAAGAACTCTTAAACAGTTGCTGAATCTTTGGAATTCGAGTCGAGCC  
ACCAACAAGAACAATTTTCATCAACCCGCGTACATGCTAAGACTTCACCAGTCAAAGCGAA  
CTACTATACTCAATTGATCCAATAACTTGACCAACGGAACAAGTTACCCTAGGGATAACA  
GCGCAATCCTATTCTAGAGTCC

Sequence 1094

CCCTTTCGAGCGGCCGCCGGGCAGGTACATGCCAAAGACTTCGCCATAACTTTTCAAGT  
TAATTACACCTGCTACTGTTTCACTTAGTGGCACTTTGCTTAACCTGTTATACACAGAAG  
GGGTTGAGAAGACAAAACACTGTTAACTTCATTATACCTTTGACAAAAGTAATATTATGTG  
ACATGATGTGTTTTCCCAAAATATTAGAGCTGCAGATTTAGCTGATTCAATTTATGGGA  
CAATTTGTTATGTGATCTAACAATTTGGCATATAATCTAGAAAGCAGCTTTATGATCAAA  
AATTGATTTTATATATATACATATAAT

Sequence 1095

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTAC  
TTCAAATAACATTTTTATTATATAAAATGTAAAAATCCAGCAAAACCAGAAATACGGA  
ATATATTTTTCTGGGCTTTTACATTTGTTGATTTTATTTCGCGATCTTTTTCAATACAAT  
TTACACCCTCATCCCCATTTCCAGTCTGATTATACAAGNGCTAAGTGGCANAAAGGTCTG  
GAATAAATACATCAAAAAGAAGAGGCAAAGCTGTGAACTAAGTTGCA

Sequence 1096

Table 1

CCCTTTGAGCGGCCGCCCGGGCAGGTACAATCTGATACAAAATCTGAAAGAAAAGAACAG  
TCTTGTAATCTTTACATACTTGTAAGCAATTTCTCAAATTTTCAGCTTACTTTCAAATA  
AAGTTCTTACTGTCTAATATGCTCTCTTTAAATTTATTAAGTATTTTAAAAATACCCTGG  
CTCTTTATCTAGTTTCAATCTAAGTATAGAAAAGCATTCTCTGTAAGGCTGTCTTAAAA  
AAAGAAAAAAAAAAAAAAAAAAGTACCTCGGCCGCGACCACGCTAAGG

Sequence 1097

CCCTTTGAGCGGCCGCCCGGGCAGGTACATCTGCAGACATACTGAGTGTACCCGTTGAA  
GAGAGTGGAGTGGCTTTTGTAAGAAGTTCAGGTACATGTCCAGGGGCCAGCCTCTGGG  
CCCAGTAATCAGCTACTCTTTGTGGCTTTCTTCATGGCTTTTTTTGTGGGCTGCCACGC  
CCATCTTTATCACCAGAAAGAGGAATCCTGGAAGTAACTGCACCATCAGTGTGATAT  
CCAATCTTTGAACCAGACGTCTGCACCTTTTTCTGATATACTGAGGACACTCGGTCT  
CTAGCAATTTCTTCAGGTCATCC

Sequence 1098

CCCTTTGAGCGGCCGCCCGGGCAGGTACTACCATTCATACAATGGAATATTACCCGAT  
GAAAAAATAAGTTGAACACATGCTACACATGGATGAACCTTTGCTTATAAGAACATTGA  
AAAGAAAAAGCCAAAAGAAAAATGAGTTTTAGCTCAAATTTTTTAAGAGGCCTAGCCTG  
CTCAAGATATCCTGTTAAAAAANAAAAAATCTTCCCATATCTAAGGTGAAA  
ATAAAAAACATTTTTAAAGTTNAATATAAAGAATGAAATAATTTCAAGGTCAAGTTAT  
TATACAGAAATTATTAATGGGTGG

Sequence 1099

CCCTTTGAGCGGCCGCCCGGGCAGGTACGCGGGGGAGGTCTCCATTCAGTAGGTGGCCC  
GGGATGAAGGCCGTGTTGGGGCTAAACCACACTCTGGAATTCGTGAGCAATTCCTCGC  
TGTGTGAACCTGAGCAAGCCATTACCTTTCTTAAGCCATTTCTTGATATTTACAGAG  
CCTCACCAAGTATTCAACGAGAACATGTAAGTGAATGCTTCACAAATGCCTGGTAAAT  
AATAGATGCTTAGAAAATGGTAGAGAGAGAAAAGAGCAGTCTCTGCCCTTAAATGTACCT  
CGGCCGCGACCACGCTAAG

Sequence 1100

GGGNNCCCGGGAAAAATNATTTTGGGGGGGGGGNCCCCCCCCCTTTNCCTTTNANNA  
NNTTAAAGGGCCCNNTTGGGNCCCTTCCCGGGAANGGCCCGGGGGCCCCCCCCGGCC  
C

CCCAGGTTNGGTTTGGGANTGGGGNANTTANTTTCTTTGGCCAAGGAAAATTTCCCGC  
CCCCCTTTTTTCCGGAAGGCCGGGGGCCCGGCCCCCCG

Sequence 1101

CCCTTAGCGTGGTCGCGGCCCGAGGTACTTGTTGGCTAGGAGCTGAGCTTATCACAACAA  
ACAACAGCATTACAGGAATTGTCTTATATGTGGTCAGTTGTAAAGCTGATAAAAAATTAT  
CTGTAAATCTTGAAAACCTAAAAAATTTACGCAAGAAAAGACATCACTTGTCTACTGTAA  
CATCCAAAGGCTTTGCCAGTATGAGCTCTTTAAGTCTCTGCCTGGATGATACAATCA  
CAGCATCACAACTGCGATCGCTTTGGATATTTCTGGAGTCTGTGGATGAGATTCTTC  
AAATCCCTCCACTCTCTTCAACTGCAACTCTGAATATTAAAGTGAATCAGGAGAGCCCA  
GAGGTCTTTGAATCATCTCTACAGAGAATGAAATTTCTTCTGTTTTGGCTGATGGTT  
TGAGGACTGGTGTCACTGAATGGCTCGAGCCCTGGAAGCCAAAATCTGCTGTTGAACCT  
GTCAGGAATTTCTGAATGACTTAAATAAGCTGGATGGGATTTGGTGATTCT

Sequence 1102

GATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCCGAGGTACGCGGGATTCCCCAT  
GTTTTCTTCTAGAAGTTTTACAGTTTTACGATCTACATTTTGGTCTATGACCCATTTTG  
AGTTAAATTTGTGTAAGGTATGTTATACATGTGGAAGTTCATTTTTTGCATGTAAATA  
TCCAATTGTTTCAACACCATTGGTTGAAAAGACGGTATGTTCTCCTTTGAATGCTTCTGC  
GCCTCAATTAATAATCAGTTTACTCTATCTGCATAAGTCTACTTCTGGGCTGTCTACTCTC  
TTTCATTGATCTGTATGTCTGTCCATTTTCCAATACCACTGTCTTTATTACTGTAGTTTC  
ATAGTAAACCTTGAAATCATAATTCTATAGTAAGTCTAAAAAATCACACAGGTTGGAAA  
TGCACAATTAGTATGCTAANATCAGAGCAATCTTGTTGGTTCANAATGGTTTATGGGAGA  
AATATTAGCNCAGTGNCTTCACATGCCTCATTGATGATAACTGGAGCTTAATGTGAA

Sequence 1103

CCCTTAGCGTGGTCGCGGCCCGAGGTACTTTGTTAGCGTCTGCGTGTGTATGGAAAGTTGA  
CAAAAAATGGCATGAAAAGATCATGATTGGATTTCTTTTAAACCTGCCCTTCTGTAAAA  
AATAGTTTATATATTTTTAAATTAGTAGGTATGTGTGGCTTCCTTTTTCTAACATTCC

Table 1

CAGCAAATTTTTGCTGCTAAGACTATCACTGTTAAAGTGAAAATTACAGGGAAAAATGTG  
ATGAATATACCGTAACTCAAAATGTGATATTTCTTAAATCACTCTTTATGCTTTAGG  
AACTGGTTGGTCTCCACTTTGATTATTAGTGTAAGAGCCTGAGTATACGTGGATTTTAT  
TGTAATTTAACTCCTTGCTTTTACTTGGGGCACCAGGGGCCCTGGAGGGCTTCCCTA  
CTTTCCCACTATGTTAACAGGTAAATNCTGATTTTATGCCTTTAGTTTGACTTATTTT  
ANCNAAATATTAGAAGTTATTGCTTTTAAATGTTAATGTGGGACTGAAATTTTCATCT  
TTTNNTTNAGAAATCTATGAAGTGATTCAAATAACGTGGGCCTAAAGGCAAAGGNGGG  
TATTTTGGNAATTCTGAAATTGNTTTGGCATCTGGNCCAAAAACCTAAANTANTCCCGT  
GGCCCTTTTTTTTTTTTTT  
Sequence 1104  
CCCTTCGAGCGGNCGNCCGGGCAGGTCACTATAGGGCTCGAGCGGCCGCGCCGGGCAGG  
T  
ACTTGCAATGTTTTGACATTAAGAGAGAGACTATACATTCACAGAGGTTGGGAGCTTCTG  
TCTAGCCTGTTGTCCAAACTGCTTATAAAATTTAGCAACTAATTTTCACTTTTGACAAC  
TATTTTAATCTAGAAAATAGGTTTATAAAGATTTTCTTAAAGTGTTATCTATCCTTCCA  
ATGACTTATTATAAATTTTGAAGTGATTTCTATAGGGTGGAAAAATCTCCTTTAGTCAG  
AATTGAACAGTTTTCATGAAGAATGTTACACCATGTAGAAACATGGGTACCTCGGCCG  
NGACCACGCTAAGGG  
Sequence 1105  
CGCCAGTGATGGGATATCTGCAGAATTCGCCCTTAGCGTGGTCGCGGCCCGAGGNACT  
TTTTTTTTTTTTNTTTTTTTTTTATATGGCAATTTTATATTTTATTTTGAATTCC  
TTGGATAAAAACCATTTGAACAATGTTTGGTAAGGNGTTATTCTATAAAAACTTCTTTN  
AAAATGAAGGTTTTNTATTTTCCACAAAAGTTAA  
Sequence 1106  
CCCAATGGGCCCTTTNGATGCTGCTCGAGCGGCGCAGTGTGATGGATTCTGCAGAATTCG  
CCCTTAGCGTGGTCGNNTTNGAGGTACNACCTGCATGGTGTATGCACACAGAGATTTG  
AGAACCATTGTTCTGAATGCTGCTTCCATTTGACAAAGTGGTGATAATTTTGAAGA  
GAAGCAAACAATGGCGTCTCTTTTATGTTCAAGCTTATAATGAAANTCTGTTTGTGAC  
TTATTAGGACTTTGAATTATTTCTTTATTAACCTCTGAGTTTTGNATGTATTATT  
AA  
Sequence 1107  
GATATCTGCAGNNNTTCGCCCTTCGAGCGGTTCGNCCGGGCAGNTTCNTGAGATGTTACA  
CTAGTATTTTGAAAAAGTATAAAATGTGGCCGGNCGTGGTGACACATGCCTGTAATCTC  
AGCCACTTGGGGAGGCCAAGGGCANGGAGAATCGCTTGAACCTGGGAGGGCGGAGGTT  
G  
CAGTGAGCCAAGATGCAGCATTGCACTCCACCTGGGCAACAAGAGTGAAACTCTGTCTCA  
AGGGTAAAAAAAAAAAAAAAAAAAAAAAAAAGTACTTTTTTTTTTTTTTTTTTTTGGG  
TCATTAGTTATTAATTTTACNCNAGTTAACACTTGAAAAAATGAATGATATTTAAATCAT  
TGTCACCTTACTGAGAAGCAAGAACCAATGAGTGAGCCCAAAGGAGTCTACTACCCATACC  
TATTAAGGGTAGGGAAAGGGTTTAAGT  
Sequence 1108  
CCCTTCGAGCGGNCGTTNNGGCAGNTNCAATGAAATGTCTTTTAAAAAAGTTTGTGTG  
AATTGTGTATGTAATTCTGACAGTAATTCAAAACACAAAATCACACATTTTCCCTAACTT  
CCCATGTTCTGGATCTGGGGACTGCAATATTACAGAAATATGCAAAAAAAGTTTAGTGC  
TCAGAGATAAATAATTTTNCCTATTTCATGCATCAATGCGCAAAAAATTTCAATTCAAA  
AAGCCAACCACTGCTATATGCAAAATAAATAAATTTGACAACACTTTTATAATCAAAC  
CCAACATTATACAAAAAATGTGTGGCACCCTGCACATACNTGTGCATATGTGTATGCAAT  
GCCTATTTAAGAAAAAAGGTGTCTTGATGAAAATGATTTTGAAAATAGTCACTGACACAC  
ATTATATACAAAACCTTTTATATAAAAA  
Sequence 1109  
CCCTTAGCGTGGTCGCGGCCGAGGTACATTTTGGGCCTTTAATCCCATCTAAACAATTTG  
CTGTTAACGAAACTCAAAACAGAAATACCTATATTTTCTCGCTAAATCCAATTGTTACC  
TATGATGAGTAAAGACACTAGATCTGCAGGTCTAGTACAATCTATACATAAAGGCCTT  
CAGATTTGAGGCACAAAAAAGGGCAAAAAAAGAAAAAAGAAAAAAGAACTTCT  
ACACATTTCTTTTATCTGCAATATGAGAAGGAATCTTTCTAACTCTAATAACATA  
TTAACAAGAATTAAGAACACGATTGTCGGGGAACCTCAGATGTTGGCAAAGCTTAAAAATA

Table 1

AAAAACAAGGGCTGGGTGCAGTGGCTCANGCCTATAATCCCACACTTTGGGAGGCCGAN  
GCAGGAGGATTGCTTAAGCCCAGGAGTTTGGGATCAGACTGGACAACAAAGTGAGACCCC  
TATNCCTATCTTNTNCNAAAATTTTAAAAATTAGCTGGGCCAGTGGTGGTGGTGCCTGT  
AGCCCCAGCTACTTANGANGCTTAAATGGGAGGATCCCTTGAGTNCAGGANTTTGAAAA  
TTGCNTGAGCCTTTGATCAAACTTTACTTTAACCTGGGGTGGACCANAACCAANGGGG  
TTTTAAAAAAAAAAAAAGGAAAAAANANAAAANGGGGAGGTTCCCCCTTGGGCC  
CCCCGGGGGNCGGGGGGCCCCNGGNTTTTTTTGAAA

## Sequence 1110

CCCTTAGCGTGGTCGCGGCCGAGGTAAGTGGGATTACAGGCGTGAGCCACCGCACCCAGCC  
AAACTGAATGCTTTTAAGAGCACCCAAGTCAACTCTTGAGTGCTTTGCTGCTTATAAAT  
TTATTCCACCAGATACCCATANATCATCTCTCTCAAGTTCGAAGTTCACAGATCTCTAGA  
GCAGGGGCGAGAATGCTCCCAGTCTCTTTGCTAAAGCATAGCAAAAATCACCTTTGCTGCT  
CCAGTTCCCAATAAGTTCCTCATCTCTGTTGGAGACCACCTCAACCTGGACTTCATTGCC  
ATATCAAGATCGGCATTTTGGCAAAGCCATTAGCAAGTCTCTAGGAAGTTGCAAACCTT  
CCCACATTTTCTGTCTTCTCTGCAACCTTCAAACCTTTTCAACCTCTTCTGGTACCT  
AAGTTCCAAAGGTAAGTCCACATTTTCAAGTATGGTTACAGGAAGCAACCCGNTTNTACCG  
GTACCTGCCCNGGGCGGGCGNTCGAAGGGCGAATTCCAACACACTGGGCGGGCGTTACTA

## Sequence 1111

CCCTTAGCGTGGTCGCGGCCGAGGTAAGTGGGATTATGTTTTAATTTTTGTAGAGAAGGGC  
TCTTGCTATGTTGCCAGGCTGGTCTTGAACCTCTGGACTCAGGTGAAGTGATCTGGCCA  
CCTCAGCCTCCCAAAGTGCTAGAATTACAGGCGTCAGCCACCACGCCAGCCTGNAGCCT  
ATTTTTATAAATGAAGTTTTATNGGAACATANCCATGCCTGGNCATTTACATACGTCTAT  
GGCTTCGTATGCCATATAGCAACAGAATATATTAACATTTACTACCTGGCCCTTTGCAG  
AAAATGTTTGACAGCTCCTGCTGNATAAACATAAAATCTGCCAAAAATGCTGATATTAC  
CCCACATGGAGAAACACTGGAACCCCTCTTCAAGAAATCAGATGCCAATTTAAATATTACT  
ATCAAGAGAAATACACTCTGATTTTTTTTCTCTATTCCCTTTCTTTTATTTTCTTTTTG  
AGACAAAGGTCTTGGCTCCGNTGNCCAAGCTGGAATATGATGGNGCCATCATAGCTCACTA  
TAACCTCNGATTNCTGGGCTCAAGTGATCTCTTGGCTTANNCTCCTGAGTAGCTGGGAC  
TATNGCGTGGGCCCCCGCCGCGGCTAAATTT

## Sequence 1112

GCGCTNGTGTTCATCCCTTACGCNCCGACGCCNTGNTGATGGTCTAACCAAATTCCTAG  
TNCCTGCTACAATGGGATGGCCTGGGGGATTAATGGAACCTTTGCCGGGACCACTTATGA  
TAAGTGGAAAGCACTTTAGGGCTGATCCCATATANGTGGTGAACACTGCATTTNTGGCC  
AAATGGACACGGAGGATAANCACCATNTGACACTGGGGGTGGTNCAGTTGGAGCTCTGGA  
AGGAAAAGNCTTCTGGGGTGGATCTCTAACAATATTAATACCTCNGCCGCACCCGCTAA  
GGCGAATTCCAGCACACTTGCCGGCCGTTACTAGTGGATCGAGCTCGGTACCAAGCTTGG  
C

## Sequence 1113

CCCTTAGCGTGGTCGCGGCCGAGGTAAGTGGGCTTTTTCTTTTTCTTTTTTTTTTTGAGAC  
AGAGTCTCTCTGTCACTCAGGCTGGAGTGCAGTGGCATGATCTCAGTCACTGCAACC  
TCCACCTCCTGGGTTCAAGCAATTCCTGCCTCAGCCTCCTGAGTAGCTGGGATTACAG  
GCAGGCACCACACACCCGGCTAATTTTGTATTTTAGTAGAAACGGGGTTTCTCCATGT  
TGGTCAGTCTGGTTTCAACTCCAGCGTCAGGTCATCTGCCTGCCTCGGCCTCCCAAAG  
TGCTGGGATTACAGGCGTGAGCCACCGCGCCAGCCACTTCTGTATTTTAAAAAAGTGG  
TAAGATTTGAGTATTATACTGGGATAGAACTGAAGTTGGGGGCTTAATTTGATCTATCAG  
CTTATTGAAAACAAGGACCTTTTAAAAAATGGTTTTGTTAGGTTGGAAGAAGTGAAGTT  
TTAATTCGTCATTTAANTTAGCCNAGTATGTTGATTTTTTTTGGNGAAAGNGTACCTG  
CCCCGGGCGGGCNGTTCGAAANGG

## Sequence 1114

CCCTTAGCGTGGTCGCGGCCGAGGTAACACANGGACCCAAGGACCTCTAGCTGTGTTTGG  
TGAGGCAGGTCTTTGTCAATTTAAGTAATCCTGTCAGATGGTGTACCAATCTTGTAACCT  
ACGACAAAGCACTGTTGCTGAGATACTGTGATTTATTTTCCCTTAATGGGCAGTTTTTTA  
TATATACGTTCCATTTTCAAGACAGGTGGTCTTGGAGTTGAATTTGCAAGTTCAAGTG  
AAACATGGATCTTTTTTATTTAACTCCCTTTTCTTCTNCTAAGGTGCTTAATTTCCAT  
GCTTGACATCGTACCTGCCCCGGGCGGCCGNTCGAAAGGGCGAA



Table 1

## Sequence 1115

GTACAGAAGGGTTTCACCATGTTACCACACTGGTCTCAAACCTCCTGGTCTCAAGTGATC  
CATCTGCCTCAGCCTCCCAAAGCACTAGGATTACAGACTTGAGCCACCGCACCCCTGTCCC  
ATCACTTTATATTTTCAAGAAGGTGGTGAGGGTGTGTTGGTGCCTGGGGTCTCTAGCTGA  
AGAAAAGGGAAATTTTCTATCTCTGGTAATGTCTTTATGGATATAAACCTCAGTTAACT  
GGAATAGCTATGGAATGTATGCTTCTGGTTAACTAAAAATTAACCAGTAAACACTCTGTA  
NTAACATTACAGAAAATACTTCTGCTTTAAAAAAGTACCTGCCCNNGCGGGCGCTCGA  
AAAGGG

## Sequence 1116

TNTCTGCANAATTCGCCCTTAGCGTGGTTCGCGGCCCGANGTACCATCCCAAGGACACAAG  
TTTCCAGGCAGCAGCCTNCAAGAATTTTGTAGAGATGTCCCATCACTTATGGCCTACAC  
TGTTACATCTGGACTCTGGATTGCAAGTGTAAAGGAAGAAAGTGAATGAAAGAGAAAGT  
GGAACAAATATTGGCAACAGAGCCCCCAGAGGACAGTTGTCCCTTTTCCAACAAGTTAAG  
TGGAAAATGCTGTTGCCATGGGAGTACCTGCCCCGGCGGGCGCTCGAAAGGG

## Sequence 1117

TTTTAAANNCATTTTTTTTTNCAGGGGGNGAAAAAAGGGGGGGGCCANTTTTC  
ANCCCTTGAAAAATGGNNTTTTAAAAAATNAAAAANAANTTTTCAAANCNNAAAAAN  
NANNACCNCCTTTTTNAAAAATAAAAAAANNCCCCCGGGGGCNTNAAAAACCTT  
TTTTTTAANTTTTTTAAAAACCCNCCCNCCNCCATTTTTTAAAGNNGGTTCTNTTTT  
NAAAAAATAAANATTGGTTTTTAAAAAATTCCCCCCNATTTTTTAAAN  
CCATTTTTNTTTAAAAAAGCCGNNTTTTAAAAAAGNNGGGGATTTTTTCCA  
NNTTTAAAGGGGAAAAAAGGGNTTTTTTGGGNAAAAAAGNCCCCCCCCCA  
AAATTTTTGAAAAAAGGNTCNCCTTCCAGGNNTTTNAAAAAANAANAANT  
TTTCCCCCAAAAAAAGGGGGGGTTTTTTTTTTTTTTTNGNAAAA  
AAAAAAGGGGGGGGGCCCCCGGGTTTTTTTTTAAAAAANAATTTTTT  
GGGGGGGGGGTTTTTTTTTTTTNCCCC

## Sequence 1118

CCCTTAGCGTGGTTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTAAAGAAA  
AAGTTGGCCAGCCCCAGGGAATAAATTTGACTGTCTAAACAACCACAGACCAAGGGCC  
AAATCTGGCCCTCTGACTGTATAAATTAAGTTTACTGGAATAAACAGGTCCATTGAT  
TTATCCATTGTCTACATACNCTTTTAGGCTCGATGGCNCCTACTGTGTCTTACAAAANANG  
TTATCTAGACAAAAAGCCTAAATATTACCGTTTGCTCTTTATNGAAAAAGTTTGCCATT  
CCCTANTCTAAGGGTTANATTCTGACTTATCATGTTATCTACCCCCCCCCGNGTACCTG  
CCCCGGCGCGCGTTTNAAGGG

## Sequence 1119

CGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTCGAGCGGCCGCCCGGGCAGGTAC  
AATATGGAAGGTAAGATCCATACCCAAAGTTAGGTAAGTGTGAGTTGCCCATGTAAA  
TAGTTTAAACACTGTAGAAGTATTANAGAGATCCTTAGGGAATGATGCAAGTGGCATTG  
AGCTATTTCATTTANAGAAAAAGTTTAAAAACATGCNGTCTAAAANGGAAGAGATNGAGGC  
CATTTNGAAAAATNTTCTTAAGATTACAGCTGGTTATCCCACTGGCTAAGTTCGGATGG  
TGNGGCANAAAGCACCGTNTTGGCTAAACAAAGNNGGAATGGCGTTAAAAAATAGGAAA  
GGGCAAGGCTAAANATTTTGAAGTTAATCCTACTTGGGTGCAGGGAATAACATAGCTTAT  
TCTTCATGAAAGTNTTTTNTTACACTACCTAAACAGNTTATACATTTGCTTTTATCTG  
GAGGGATGGAACCAANTTTTTTTTTTGCCTTTAATCCTTAAATTGAACTAAGT  
TTTNTNTTTNGGGGTTGCCAAAAA

## Sequence 1120

CCCTTAGCGTGGTTCGCGGCCCGAGGTACACACATCTTTTTGAGATCCTACCTCAGTTCT  
TTTGAGTATATAGCCAGAAGTGGTATTACTAAATCTTACGATATTTCTATTTTAAATTA  
TTGAGGAACCACTGTAGTTTTTATAGCAGCTGCACCATTTTACGTTCTACCAAGAGTG  
CACAAGGGTTCCGAGGTTCACATCCTCCCCAACACTTGTTATTTCTGCTTTTTTATG  
ATTGCAGCCATCATAGTGGGTGTGAGGTGACATTTTATTGNGGTTTTGATTTGCATTTCC  
CTAATGAGGAGTGATGCTGAGCATCTTTTATGCTTACTGGTCATTTGTATGTTGCT  
TTGGAAAAATGTCTATTCAAGTCCTTTGACTATTTTAAAAATGGGTTATTAGAAGTTAT  
CGTTGGTGNTGACTTGTAGGAGTTNCTTTCTATATTCTGGATATTAATCCCCCTATCAGA  
TATATGATTTGCAAAATCTTCTTAAATCCATAAGGGTACCTTTTCACTTTTGTGAA  
TGGGGTCTTTGATGNATAGAAAGNTTTANGNTTGAANANCTAAATTATCNGGTTTTA

Table 1

CTTTTGGGGGGCTGGG

Sequence 1121

CCCTTAGCGTGGTCGCGTTCGAGGTACTTTNTTTTTTTTTTTTTTTAATATTTAGTAG  
AGACGGGGTTTCACCGTGGTAGCCAGGATGGTCTTGATCTCCTGACCTCGTGATCCACCC  
ACCTTGGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCACCGTGCCGGGCTGAAAAAT  
AACCCTTTAGATATCTACAGCTTTAACTGTGTGCAGTCATGAAAAGCAGACATTAGAAG  
TCATTGGCATTTAATAAATTGCAGTAAATTTACAGTAAATACATTACAATCATTAAATA  
ATAGGCTTTAATGAGAAGATTTAATAAATAATCATTAAAAAGACAGCAGAATTTTATTC  
TGGTCTCAATATGGTNGCTGCTCTTCTTATCAAATCTATAATAAACTATNTGACTATNA  
TATAGATTTTCAAGGAGCTAAAAAAGCCTTATATTTCAAATTAAGAACNATTTTAAT  
TTGCNAAATCAATNAGCATTACTGAAGTTTAAGGAAATTTTGAATAAAATATATGGCAN  
TTANATNCCGCTAAAAAGAATGNAATCTTAANGATTNCTTTTGGCTCAGGGGCNTAAA  
ATTCCA

Sequence 1122

NGCCCTTCGNTTTCCGGGCAGGTACGCGGGGGCGGCTCGTTCAAGATGGCGGAGCTCGA  
CCAGTTGCCCTGACGAGAGCTCTTCAGCAAAAGCCCTTGTCAGTTTAAAGAAGGAAGCTT  
ATCTAACACGTGGAATGAAAAGTACCTCGGCCGCGACCACGCTAAGGG

Sequence 1123

CGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTAC  
CTTTTATCCCTCAAAGGACCCCTTCTTGGGTTTTGAATGGAAGCCTTTATTCGGTTAAGA  
TGTTTTCTTTATTTGCCACTTCCATCTTTTTTGTGGCCCTCGATCCTATTTTCCCTG  
ACTCCATGCTTGGTTGGCCCTTATAAACTTGTGCCCAAAAGATTGTGGATTAGACTTTC  
CGAGGACTTACCTGTCCTAGGGGAGTAGGCAAGCACTTCACTAGGGAGGGGGTGGGGAA  
AGGAATGACACATGACATACATGGCATACACATTAAGCAGTTGATCATATGTCTGCTGG  
GTTCCAGTTTCTTGGGAATGTTGGGTCCCCTTGTTCAGGCTTGCATATTTTAACTAAAA  
ATTTCAAGTCTATTGTTTTTAGTAACCTTATTTATANNCTCCATAACAAGTTAGAAGGA  
TGTATCTGCTACCATTTATTCCTATAATTTTAAGAAAGNTGGGGCTTGACATTATACTCA  
TTTAGTGAGGTANATGCCAAAAAAGTGGAGGGG

Sequence 1124

CCCTTTTCGANCGGCCGCCCGGGCAGGACGCGGGTAGGGCAACTTGGATGTATGCTTAGGG  
TTCGCAAAAAGTAAACAAAAATACAAGGGAAAAAATTATTGACAATGAACTGCTTTGGT  
AGTGATTTGTGATTTTGTTTTTCTTGATTAGTAACCAACAGCACAGCCACCAAGAAAT  
ATGCACATGTGGGACCACGTCAAGCTGAAGCGTTTGTGCCCAACAAAGGAAACAATAAG  
AAAATAAAAAGGCACACTAAAAATTACAAGTTTGGGATAAGGGATTATTTTGAAGGT  
ACCTCGGCCGCGACCACGCTAAGGG

Sequence 1125

CCCTTAGCGTGGTCGCGGCCCGAGGTACAGAAAAAGACACATTTAGATAAACTGAAGCAG  
ATTAAAGTGACTTTATAAGACAACATCTTTGTTTTATGTTTAAATTTCAAGTATGGTTAA  
GCACTAATTTAATTCAGTGCTTTCTGCTTATCTGTTTCTAGTAACCTTTACAGAAACAA  
GTGTAGTCAGTAGCCAACATACATCCATGTCAGCCTATATGACTTACTAGGAGGGCTT  
AAGTTTTTTAAAAGAGATGAAAAATAAGAGAAGGTCTAGTATTTTCTCCACATTCCA  
ACAGATCATTTTATGTCCCCCTTTGGGTGAGCACATTCCATGTTGTAGACCATTGATCA  
TAGTAGTCAGAGCATGGAGCTCTGGAGTTCAGAAAAANTATTTATTATTGGTGGTATGA  
CAAAAAATAATTCATGAAAAAAAAAAAAAAAAAAGTACCTGCCCGGGCGGCCGCTCGA  
AA

Sequence 1126

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTTTACTGTTCTTTTAAACCTGGAGAAGCCTC  
TATGGCTTATTCCTTAGAAGCAACAAATGAAATGATGTATAAAGCATCAAGTCAAAGAT  
ACAGAGAACTGGACACATCCACTAATTGTTATGACAATCAAAGAAGTCATCCTCCGTAAAT  
ACCTAAGGGTTGTCTAAGGCTATAAAGGTCAATTTGAAAGCCAGTTAGGGATCCACCCGT  
GTTTCATAAAAGTGCTTACACTCATGTTTGGCTTTCAAGAAGTGATATGCCTACTAAAG  
CTGTTATTTTGTAGACTATCCCGCGTACCTCGGGCGGCGACACGCTAAGGGCGAATTCAG  
CACACTGGCGNCG

Sequence 1127

CCCTTTTCGAGCGGCCGCCCGGCGCAGGTACTTTTTTTTTTTTTTTTTTTTTTGGCCT  
CAAATTCATTTAATTTGTTTCTTTGTTTGTCTTCTCAAATATACAGTCCATCACC

Table 1

TTGGCTCAGTGCATGTCACCAAAATTCTCCAGGGATTTTCATAGTCTCGGTGGTGTGGCT  
GGCCCAGGACTATCCATGCAGGGAGGCCTGCACCTNTGACAGTCGGCTGCANCTGGGGGT  
GCCCATCTTNTGTGCTCTGTGGTACTNCTACACACATAAATTCAGGAAATGACTAGATGA  
GCCTGAGTTGGCTTTANTATTAATGTGCAAATACAGTTTTCTATACCAACAAACCC

Sequence 1128

CCCTTTNNTNNTGCCGCCCGGGCAGGTACTATCGATTGGGTGCGGGGTGATCTATTATC  
ATTGAGTAGGGAACTTACTAGGNTAAATAGAAAGTATATANAATGTATTTGGTTATAGA  
TATGTGAAGGAAAAGGCATANTTATATGGTCATCCATGCTGGGGAATATTTNGNAGNTNT  
NTTTTGTGAGAGAAATGNNCATNTTGGATCAATAGNATTAGACAAATATCTTGNGCAT  
CAAGAGACCTGGAAACATG

Sequence 1129

GATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACAGTGGCGCAATCTT  
GGCTAGTGTAATTCAGTCTTTTGAATAAATGGAAAAATAAATTGTATGTTATTTTATA  
CAGAAAAAAGGCCCTTAATATCATAAGGTTTTTTTATAGCCCTCAAACTGATTTTTAA  
TGGAGGTAGGCAACTGAGAAAATAAGCATTTAAATTAGTTTTTACCCCAAAGCCCCCAA  
AATTTTGCTTACAAATTAGGGTACCTCGGCCGCGACCACGCTAAGGG

Sequence 1130

CCCTTTTCGAGCGGCCCGGCCCGGGCAGGTACTTTNTTTTTTTTTTTTTTTTTTCTTTT  
TTATN  
GNNANNNNNAATTTTTNTNCNGGGGGGNTTAAAAATTTTTTTTTNNNNNGNTTCCNNNTA  
NTNNATTTTAANGNNNGGGNNNTNTTTNNCCCTTTGNTNTNGGCNAAAAAAAAAAAAAT  
TTTTTTTTNTTAAAAACCNATAANGGCTTCCCTNAANANAAAAAANNATNTNTTTTTTA  
AAAAATAAGGNAAAAAANAANTTTTT

Sequence 1131

CCCTTTTCGAGCGGCCCGGCCCGGGCAGGTACCCAGAGGGAGAGGCTAGCAGTATTTTTAA  
TTGGTTTTCTAAATTTTTATAGCTTGATGGTAGATAACACATTTGCTTCATTGAAGTAAT  
CTGAAAAACCAATCCTCAAAAGACCTCTCAATTAGAATTCTTAATGACAATGTTTTCTT  
TATCATATATTTGAGAGATTGATTTAAAGAAAAATAATGCTTGACTATCTGAAATAATAT  
TTTAACCCTATCATAAAATCTCTGCCTGGTAGAACAGCTGACTGTGGAAGGGTAAATGC  
AGAGAACCACTATTGGGATCTCCCTTCTCTACTTTGACTGAAATCTTGAACCTGTAGA  
ACATTACTTATCACTGTGTCCTTTCTAATGGGGAAAAATAATAATAAACACTTGCAGAGTA  
TTTTTTAAAGTTTTAGCTTTAAAAAATAAAC

Sequence 1132

GATATCTGCAGAATTCGCCCTTTTCGAGCGGCCGCCCGGGCAGGTACATCACATGGTGAAA  
GCAGGAGCAAGAGGGATAGAGGTGCCATACACTTTTAAACAATCCGATCTCACAGAGCT  
CACTCACTATTGCAAAGATAACTCCAAGCCGTGAGTGATTGGCTCCCATGACCTGAACAC  
CTCCCACCAGGTCTACCTTCAGCATTGGGGGTGACAAAGCAACATGAGATTTGGGCAGG  
GATAAATATCCAAATTATATCATTCTGCTCCTGGCCTCTCCCAATCTCATGCTTCTCA  
CATTGCAAAATATAATTATGCCTTCTAACAGTCCCCAAAAGTCTTAACCTATTCCGACT  
TTAACTCAAAATTCAAAGTTGGCCAGATGCAGTGGCTCACACCTATAATCCCAGCATTT  
TGG

Sequence 1133

GATATCTGCAGAATTCGCCCTTTAGCGTGGTTCGCGGCCCGAGGTACTGAACTACAGGTGT  
GAGCCACCATGCCTGGCTTAAACATTTGTTTTTAATTAGCCAGGCTTGGTGGCACACATC  
TGTAAGTCCCACCTACTCAGGAAGCTGAGGTGAGAGGATCACTTGAGCCAGAAGTTCAAA  
GGGGCAGTGATCACTCCATTGCACTCCAGCCTGGGTAACAGAGTGAGACCCTGTCTCGCC  
AAAAAGAAAGAGGTTAAGGAGGAGAAGACTCTAACCAAAAGAAAGTAAGTATATTGA  
AAATTATTTGATAGCAATCGCAATTATTTTGGATAACTATTTTACATATTGTAAGCCAA  
CCAAATAGGGTCTTAAAAAGTTTCAAGACCAATGATTCATGTTCTCTACTTCAGCCTAA  
AAAAAGTTAAAGAATTCTTCAATTACCAAAAGAACAGTTATTCTATANTTACAAAAAGA  
CTTGAAACTTTTACCTGAATGCATCTCTTTGTTACAAAACCTTTAAAGGAGGTAGGGGG  
GAACCTTATTGATTCATCAATGCTGNCTGGTTTTTTAAACCCA

Sequence 1134

AGTGTGATGGGATATCTGCAGAATTCGCCCTTTTCGAGCGGCCCGGCCCGGGCAGGTACTTT  
NTTTTTTTTTTTTTTTTTNANGAGCCTCTGGTTACGTTNNCTTGATATTTACTTTCTC  
ATCCTTCTCTTTTCTTACCTTCTCTTGACTCCTTATCTTCTATGCCAACCTCTCT

Table 1

AAAAAGTCAGTATGTAATATAGTTGCTCTTTATTTAAAAAATTTTAAGATTGATATTTG  
CTTACTATCATGTTACGAGGCTTTATTTATATGTGTATTACAAATATATTTTGTTAACTAC  
TAGCAAATATTTTATGTAATAACTTCGCTATTTTATTTAAATCCTGTTTTTAAATTTCTG  
AAATGTCATTTTAAGTATAGGAGACAGGTGAAATTGTTCAAGGTTACTACTAAACCAGGG  
AATAAGGGAAGCTTAGATTCTTGGNCTTTTTTCAAAAAAGAAAAATTTTA

Sequence 1135

CATGCTCGAGCGGCCGCCAGTGTGATGGGATATCTGCAGAAATTCGCCCTTAGCGTGGTC  
GCGGCCCGAGGTACAGAGGAAATGGGACTTTGCAATTATATTTTCTAAGTGGTCTGAAC  
TTGGTCTCACTACCCACATCACCTGGAATGGTTACCAGGCCTCAAAGGACTGCCCCACGG  
GCTAAACAGCTGATCCGCTCTCTGAAGCCAGACAGTCTTATCTGGGAGGTCTTTACAGA  
TGCCACTGTTGAGGGCCCCGAAGCTGAANAAAAGTGACTCCATCCTCAAGTAGTCCTTATC  
TTCTTTTGAACCAAGCCTTGCTGTTCTNGGGCCGCATTTGTGAATTTGGNCTGGAAGTN  
NNNGGTTCTTTAAAAANAAAGNGATGGGGTCTTTTAAAGGTAATTGAAATAAGGTGTTTG  
ATGGTGTTAATTGGGTGATGATGTACCTNGNGGCNGNCTGGATAAAAGC

Sequence 1136

CCCTTTGAGCGGCCGCCGCCGGGCAGGTACAGATGAAGATGTGTTAAATATCTCAGCAGA  
GGAGTGTATTAGATAAATGGAATTATGATATATATGATATACAACTTTTTTCTATTTAA  
AAATATATTAATGGATCAACTTTAAATTTGTTAGTTGCCAGTGATCTTTTTTGAAAAACA  
AAAATGGGGCATTTGTTGATTTATTTATTTCCGTCTCTAATTAGTTACCTCAGTTTGAT  
TGAAGCCAGTGAAGTTGTCTTTTCTCTACTTCTACTTCTCTCCCCGACCTTTTTCTG  
CCCAGTGTAGGGTGTATTCTTAAATTCAGACAGGGGGAGGATTCTTTCACATATNACTCA  
GCTACCTCCCAATCTGGGGGAGTTTTTCTTACAACCTTGATACCAGATCCATTAATTTTAC  
ATTCCTGAATAAAGGCCTAGTA

Sequence 1137

CCCTTTGAGCGGCCGCCGCCGGGCAGGTACAACCTTGGCTCACCGCAACCTCCGCCTCCCG  
GGTTGAAGCGATTCTCCTGTCTCAGCCTCCCCAGTAGCTGGGATTACAGGTGTGCACCAC  
CACGTCCTGCTAATTTTTGTGTTTTTAGTAGAGATGGAGTTACCATGTTGGCAAGACTG  
GTCCTTGAACCTCCTGACCTCAAGTGATCCATCCGCCTTGGCCTCTCAAAGTGCTGGGATTA  
CAGGCATGAGCCACCGCACCTGGCCCTGTCAGGGTTTTCTTAACATTAGCAACTGCATTT  
TGATTCTGACAACTGTCACAACATTTTGGGCCAGGTAACTTTTGGTGGCTTGTGCCCTGT  
AAGATTTTAGCAGCATCCCCGGCTTCTACCCACTAGATGTCAATAACATCC

Sequence 1138

CCCTTAGCGTGGTCGCGGCCCGAGGTACAAAACAGAACAAGTCTCAGTTTTCAGTGCAAC  
ATTTCAAAAAATATATATGCTGCAATCTAATAATTAAGGAATTTTACCTATTATGAAA  
CATATTACATTTTTTAAGTTAGATAATCANGTTTCAAAAGGAGTATTCAGGTTATTTAAC  
TTGTTTTTTAAATGGCTGCATCAGAAAAAATGCTATTTTTTTTTTATTAAATATTTTCA  
TCACTTGTTAAAAACATATTTTTGATCTGAGTTTGGTAAAGTATTATTTTACCTGCTGTT  
GCCCTGCCCGGGCGGCCGCTCAAGGG

Sequence 1139

CCCTTAGCGTGGTCGCGGCCCGAGGTACTATCTCGAATGAAGTTAAAAACAAATTAGAGGG  
AAAAGGTCAGGTTAGCATGTTTTAGAACTATTGGTAAACTATAATTATGAGGACATTATA  
TAATCAAAAGATTAATATTTTAAGCACTAAGTTATAAAGGGTTTACACCCATGAATAAAA  
AGATTACCATCACTTACTATGAACCACCATTCATGAATCCATGTAGCTGAACACTCCTA  
ATGAAAAGTTAATTATCCTTCAACCTGTAGTTGAAGAAGTCAAGTTATGTTTATTGACA  
GATTTCCATTACAGACCCACTATATTGATGTTACTTTCTTTGACACTATATTTTATATAG  
GATATATTAATAATTGAAAACCTTAATGCTGTTTGAAGGCTATTAATACTATTAATTTT  
TGAAAGCTTTGAGTTTTCTGAAAAGGCTTTTAAGATCAAAATTTCTGAAACACTCCACAC  
ATTCCTCCTCACCCACATTTA

Sequence 1140

CCCTTAGCGTGGTCGCGGCCCGAGGTACCAGATTATGGACTCTGCTTCTGGTGTGGGTAGT  
AGGTGGAGGGTAGCCAGGAGGGCTTGGGGTGGGTCATCACCTCACAAATTTTGAGATGGGG  
TTTTATTTTGCAGATTCATGCATTGATCACAGGCCCATTTGACACTCCTTATGAAGGGGG  
TTTCTTCTGTTTCGTGTTTCCGGTGCCGCCGACTATCCCATCCACCCACCTCGGGTCAA  
ACTGATGACAACGGGCAATAACACAGTGAGGTTTAACCCCAACTTCTACCGCAATGGGAA  
AGTCTGCTTGAGTATTCTAGGGTAAGAGGAGACTTTTAAAGTAGCCAAGTCCGGTTGTTAA  
GCAGATAATTACTCTAGGTACGCTTTATCAACCGGAGTCCCTCATCTGAACTACAGAAC

Table 1

ACAGAAAATGATTGAGTGACTCTTCTCAAATCTCCTTCAGGATGGTATGTGACTAGTATC  
ATTCTAGATGCANAGGGGGGAGAAGTTAATTTATTACAGTGGTAACCTTTAGAAGTGGTCN  
CTTAAGANTGTGGGCCCTGAACCATCTGGGGAACCTGTAGCCAGCCNGTTTCTGGGGCC  
CTTATCTTAGACCTACAAAAAGAACTTTGGGGGTTGGGG

Sequence 1141

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTNTTTTTTTTTTACGGAGTNTGGCTC  
TCTTGCCCGAGNATGGAGTGAAGTGGCACGATCTCGGCTTACTGAACCTCCACCTCCTAGG  
TTCAAGCAATTCTCCTGCCTNAGNCTNCTGAGNAGTGGGGATTACAGGTGCCCGCCACCA  
TGCTGGCTAATTTTTGTGNTATAGTANAGACGGGGNTTTACCATGTTGGCCAAGGCTG  
GTCTTGAACCTCCTGACCTNANATGATCCACCTGCCCTGACCTCCNACAGTGCTGGGATTA  
CAGGCATAGCCACCGAGCCNGACNAGGGCNNTTTANCAAGGAAAACGTGTGGAATGAAT  
GGCTGTTGGTGTGCANANAANTNATACTGTGNTACATGTTGTGAAACCTGAANTTTNTTT  
GNTNNGATTTNGTATGANGAATGANNNNCGGACNCAANCACCCNTAAGGGGNGAAATTNC  
AGACANANTGGACGGGCNGTTACNTATNNGGATCNNNATNTTNGGTAACAAAANNTNAGG  
CTGNANTACNTGGTGNAANGGTGATGTTACATTGTNTGNAAGTTGGTAATCNCANTTCA  
NNATTTNTANANANCATACTANNNNNGNGGCTTGTTTTGGNNANAGGAGGGGGGGGGGCC  
AAACCCCCCNCCCCCNCCCCCNNTTTNNCCCCCCCC

Sequence 1142

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTATTAGCAACTGTGATGATGATGATTGTGAA  
TCTTATTTTCATATCTTGGGTTTTCTTACAGTGAAATATTTGTTGTGTTATTTCTTTGT  
AAAAATAAACCATGTTTGCATCTTGGTCTTCTTTCCATTGGATTCAAAAGTTNTATAGT  
GATTCCTCCTAGTAAATTCATTTTCTCCTAGGAGTACCTCGGCCGCGACCACGCTAA  
GGG

Sequence 1143

CCCTTTCGAGCGGCCGCCCGGGCAGGTACCTACACACATATATGCATATATGGTATAATG  
TATCAATATTTACAGAGACCATAGTAAACACAGCACAAAACCAGGCATTAAGAGATGCAT  
GGGAAATAGCATTTAAATGGTAAATATGGTAAAGATTGTTTTATGGTTTTTGGGTTTTT  
TTTTTAATGATCATATTTTAATGTTACTTTAAATAGATTAGTGAATGTGATTCAAT  
T

Sequence 1144

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTATAAGTAGNTGGTTTGTATGANATGGTTAA  
AAAGGCCAAAGATAAAAGGTTTTCTTTTTTCTTTTTTGTCTATGAAGTTGCTGTTTATT  
TTTTTNGGCCGTGTTTGATGTATGTGTGAAACAATGTTGCCAACAATAAACAGGAATTTA  
TTTTGCTG

Sequence 1145

CCCTTAGCGTGGTCGCGGCCGAGGTACTTGTGTTTGCTTAAACAAAGTGACTGTTTGGCT  
TATAAACACATTGAATGCGCTTTATTGCCCATGGGATATGTGGTGTATATCCTTCCAAAA  
AATTAACGAAAAATAAGTAAAAAAAAAAAAAAAAAAGTACCTGCCCGGGCGGCCGNT  
CGAAAGGG

Sequence 1146

CCCTTAGCGTGGTCGCGGCCGAGGTACCAAGGTGAAATTTGAATGTGTGAACGCATTGTT  
CTGTGGAGTTCTTTTCAAAGAGATTTCAAAGCCACAAGTTAGATAAGGCCAAGAAGTAAG  
GCCAGAGTGAGATCGAAGTAGGCCTTTCTTTTAAAAAATAATAGCTTTTATTTTATGTCA  
GTATCTTCTTTACAAATCTAACCTTCCCTTTTACGCTTTTGAAGATAGCTAAAATT  
CAGTGTGTTCTCTTATTATAAAGGATTGGGCTAATAGTTAAGCATTTCAAAACATTTCA  
GTTTCGTTAATCAGAAGCTGCAAGTGGGTTTGTGTTTATAGCCAGTTTGCTTTTAAATTTG  
GCCATGTGGGCTTTAAGTTCAACGATTTGTGTTCTCTTTATNGTTACTCTCTCCAGAAG  
TATTACCCAAACTGTGAAGTTGTGGTTATGGGGATGGCAAACATTCTATTCTCGGAGG  
AGTTTTCAAGTCTNTGCGGTTGCTGTGCACTCAGAATGCCANATCCCGGGAAAGTAAGTC  
CTT

Sequence 1147

AGCGGCCGCCCGGGCAGGTACATCTGTCAAAAATCATATTTATGTGAGATGTGTCAATAC  
TANACTTGTGTNATTNATGCTACTTAGAANGANGATAAAAAATATCCTGTTTGGCTCCAA  
AAAAAGAAAAGTCAGCCCCCTCCTGCACGAGTNGGAGCTGCAACCTTTANAATTGATAA  
TCACAAACCCCTNAGACCCANAGTAAATAAAAAAAAAAGATATGTNACATTAGGCATTGA  
TGGAAAAGGACTAGATCCTAGTATAAGCATCCTAATAAAAGGAGAGGTTNAAAGACGCTC

Table 1

TCCAGAACCAAGNNTTNCAGACTTTNTATGATAANCTAAATGTGCCANTCCTCGGCCNNTG  
ACCACNCTAAGGGG

Sequence 1148

CCCTTAGCGGCCCGCCCGGGCAGGTACTATTGAACCAACAGGATATCTTTTTTATTATTG  
CATGAGTTAATCCTACAAACAAAATTAATACCTCTTTTATAAAACATCTTTCCAGTGT  
TCTAATTGATGGAGATGCGGATCACTCATCTATAAAAAATGACTTACAGCTTCAGCTTAA  
TCAGTTGCTATAATGTGAAAACAGGAATGTGTATTTTTTCAACTAGGTAAAGGTGCAT  
ATAATTTGAATTGTTAAATGTTTTTATTAATGAACAAAGTAAACCTTTTAGTAATTTTTAA  
ATTACTGGTCTTAGGTGTTTGAACAAGGTAAAGTATACATTCCAGTTTGGCCAAAAG  
TCACTTAAATATCTACAAATTATTTAATCTGTGTGTGGTAAACACCATTATTGCTCCAAT  
TTCTGGAAGAGTCTATTTTCAAAGTTTAAAAAGAGGAAAAACAGCAAAGTGGCTAAC  
TTTGCAAGTGGAAAGAAAAAGTGTCTTCATGGGTACACTTTCATATTTTTATGCAGCAT  
TAAGTTATCTACCGTTATGGGGGAACCTGGGGTTT

Sequence 1149

CCCTTAGCGTGGTCGCGGCCGAGGTACCATATTGTTCTTNTTACANNTNTTACTGTCTCA  
GNTATAATTTTGAATGGCGTTTNCNACTNGCCTGNCCNNACCCNNNTGTNTCATAAN  
TAATCTACGTAAACAAAGTTAAATAGGTAAATGNAATGTGATNAATACTTGNGGACAACC  
TGGTCATAATTTANAATCTCAAGGCTATATTAATAATACATATTTTATTATTTGGGTAT  
TTTCCAATANAATGTATTGGAGGAAAAACCTTTCCANAAAAAAGNGTAACCTTTTAAAN  
AAGGNGAATNANNNTTTGTCTAATTCAAAAGCTTATTTAAAGGTATGTGTAAACACGG  
TNAAGAACCNTNAAATAAAGAAAGATNTAANATAAAACGTTACCAAAAAATAAAGTG

Sequence 1150

CCCTTTGAGCGGCCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTGTTTTAA  
CAAAAATAATAGNGNAGAAGCTGGGCACAGTGGCTCATGCCTGTAATCCCAGCACTTTGG  
GAGGCCAACTCAGGAGGATTGCTTTAGGCGAGGAGTTGAANACCAGCCTGGGGCAACAAA  
AACAAAAAATTACCCGGGCATGGTGATGTGTGCCTGTAGTCCCAGCTACTTGACAGGCT  
GANATGGGAGGATCCCTTGAGCCCTGGAGTTCAAGGTTGCAGTGAGCCATGATCTCCCCA  
TTGCACTTCCANCTGNATGCCAGAGCAAGACACAGTNTCAAANAAAAAGAAAAACNCA  
ANAGAGGTGGAAGGGCTCANCAAGTGCTTCCACATTCCGATTCCCTTAAAAATCGGGAAT  
GCTCTAAAGCTAGAGGACTTTTA

Sequence 1151

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTGGGGTTTTTTTT  
TTTTTTTTTTGAGACGGAATCTTGCTCTGTACCCAGGCTGGAGTGCAATGGTGCGGTCT  
CAGCTGACTGCAACCTCCGCCTCCTGGGTTGAGATTCTCCTGCCTCANCTCCCAAGTA  
GCTGGGACTACAGGCACCCACCACACAGCTGGCTAATTTTTTTGTATTTTAGTAAAGA  
CGGGGTTTCACTATGTTGGCCAGGCTGGTNTCGAACTCCTGACCTCGTGATCCACCCACC  
TTGGCCTCCCAATCTTATTTGCTTTACAAGTCTGCTTCAGGGTTACCTTCCCTGACCAC  
TGCTGCCTCCCTCCCAACATTTCCAAGGGACTGTCAATTGCCTTAAGTATTTTTCTGTT  
NAGNTTTTTTTTGGCGTTTTNTTTTTTTTTTNAACAGCGTATTAATCTNTCGCCAAAG  
GCTTGGAAATCANTNGCCCAAATTAAGCNTTGTGNAGCCTTGAACCTTCTGGGCTTA  
AGCAAATTCCTNTTACCTTNAGNAAANTNGNGACTACNGGGCCCATGCCACCACGCTTG  
GGCCTTTAAATTAATTTNTGGGTAACAAAAAAGCTTAAGCCCTANGNAAANTTTG  
GTTTAAAAATNACAAGAGGGACTTNNATNTTNCATTNATACAAATGGAAAAATTAANTT  
TCNTCNTTANNANGANAAAGGAAAAAAAAAAAAAAN

Sequence 1152

CCCTATCGAGCGGCCCGCCCGGGCAGGTACAAGCAAGACTTTCCTTTAATATTGATAAAGA  
ATTGAGTATCATGTATGCATTCCCTTTTATGATATACAATTAATTGAAGTTATTTCCCT  
TGTATGCAACCATCCACATTTTTCTTCTGACCTTTTCTCAAGTCTTACAACACTTTTTA  
ATGACTGCATTTTGGAGGTGGTCCCAGGAGAACAGATGTTTGCCTTATAATGGNGTTTTT  
CCATTTTTATCTTTGATTGNGCAAGGGGGTTGGAAGTATTATTTAGTCATTATATGGATT  
CCTCTAAAAATTGTTCAATANAATATATTCATTTATTCACCTTACTTATTGTTTATTT  
ATTGCCTTAGAGTATACCCAAACACNGGAGGATTCAATAATGATCAAGACAGGTCTAATT  
TCTGTCCCAAANGAGCTTAAATATGNGAATTAGAAAAGGAATTTT

Sequence 1153

CCCTTAGCGTGGTCGCGGCCGAGGTACTACATAGAAAGGGCTTGAAGTCTGATTCAGGA  
AAGGAAATCAGGAAAGAACAAAGGAAATGAAGGAAGAATAAAAAAGAGAAGTCATTG

Table 1

AAAAAGTATGAAAAAATATGAAACAGATAACAAGAAAGTAGAGGAGATTCCAAAAAATAC  
AACCCAGGTTTTCTGCCCTCATTCTATAGAGTCTTGAGAAATTGTAGGGTGTAAAGAAATAA  
AGAATCAAGTCTGAGAGATCCCTTTTGCTTCTTTCTTGCTCACTGATCTGGAACCCAGG  
TTGCCAGCTGGCTATTCACAGGCCCGCGTACCTGCCCGGGCGGCCGCTCGAAAGGG

Sequence 1154

CCCTTAGCGTGGTCGCGGCCGAGGTACTGCAACTATCACTTGTCATTTGTCTAGGAAGGT  
AAAATACAGGAAGTTCCCAACTTAAAAATGGGCTTGACGTAGCAGTCATTTGTAAAGTCAC  
TTGCTTGGAATTTAGAATGCTTCTTCCCTCTGCAGAGACAGCTTCCATATGGTGATTAGT  
ATCCAGTCAGCCACAGAAGTTATTCAGTCTGTTGCTATAGATGAAATTATCCTTATTTT  
TACTTCCCCTTCGAATAGACCACCTACTGTTTCTTCTGAGTGTGGTCTTTTCTTTTCTC  
CTATTCCCTCCTCAATCCTCTTTTTTTTTTTTTTTTTNCTGGGTTTCTTCATTATTCTC  
TAATTTCTTCTGGCTCAAATACTTCAAGTTCTATTGNGGTAGCCTAGATTTAGGGACT  
AGTTTGG

Sequence 1155

CCCTTAGCGTGGTCGCGGCCGAGGTACCTGCAGGAACAATATTCCTGTAGCCATGGAAGA  
GGGCCAAGGCTCAGTCACTCCTTGATGGCTCCTAAATCTCCCCGTGGCAACAGGTCCA  
GGAGAGGCCCATGGAGCAGTCTCTTCCATGGAGTAAGAAGGAAGGGAGCATGTACTTGCG  
CTTACTTTGTAGCCTTCATCAGGGTTTGCTGAAGATGGCGGTATATAGGCTGAGCAAGAG  
GTGGTGAGGTTGATCGGGGTTTATCGATTACAGAACAGGCTCCTCTAGAGGGATATGAAG  
CCCCGCGTCTGCCCGGGCGGCCGCTCGAAGGGCGA

Sequence 1156

CCCTTTGAGCGGCCGCCCGGCCAGGTACGCGGGCATTTTTGATTGCTATTAAGAAATA  
CCTGAGACTGAGTAATTTACAAAGAGTAGAGATTTAAATGGTCAAGGTTCTGCGGGCTTT  
ACAGGAAGCATGGTGCCAGCATCTGCTCAGTTTCTGGAGAGGCCTCAGGAAGCTCTTAAT  
CATGGCAGAAGATGAAGGGGGAGCAAATTAATCACATGGTGAGAGCAGGAACAAGAGAGA  
GAAAGGAGATGTACATATACATTATGTAATTAAGGCGTGCATGTGTATGTATTAAAAA  
TAATGGTATATAAACAAATACAATATATAACAATAAACACCTAACGCANAGGCTGCTTG  
TTATCCACAATANTAATACCAATAG

Sequence 1157

CCCTTAGCGTGGTCGCGGCCGAGGTACAGGCTCCTGCCTTTAAGAGCACTGTTTTGCTT  
TTGGGGCAGAAAGCATGGACTTTTAAAGGGGGACTTGGCATGAATGCATTAGAGGAGGG  
AGTGAGCAGTTGGGGGTCTGCGTGAAGTCTGCTTTCTGCTTAATCTACTGGTGGTCGAGCT  
GGCTGCATCACAAGCAGAGCTAGGTTGTATAGTGGCCTTTGTCTCAAGACACTCTCCAGG  
TGGGAGAGCCTTCCATCAGGGACATACTTTAGGTTGCAAAATTGACTGTTGTCTTGAGG  
CAATCTCCTTGTGGGAGAGAGTTTCTGCCCTGGAGCTTCAAAAGTAAGCACGTAGTTAGA  
TAAGCTTCCAGTGTANNTGAGTGTCTGGTGAAAGGGAAGGTAAAGGTTATGATTGCATTT  
TCTGAAAGAGCTAAGGTANGGAAATGGGGAACATAAAAAAAAAAAAAAAAAAAGTC

Sequence 1158

GAGAAGGCTTCATTAANGGAATCTCACTGNGAATATCTCCTGAGAGATGGACAATGAAAT  
ATCAGNNGGNGGATATGNGTGATAAGCTGATTTCAATATTGAAGTATNGAAATAAATAT  
TCTTTACACCTGAAAAAAAAAAAAAAAAAAGNACCTGCCCGGGCGGCCGCNCGAAAG  
GGCGAATNCCAGCACACNNGCGGCCGGNACNAGNNGGANCCGAGCTCGGNACCAAGCNNG  
G

CGGAANCANGGCATAGCNGNNCCTGGGGGAAAANGGNAN

Sequence 1159

CCCTTTGAGCGGCCGCCCGGCCGAGGTACACCAGCCTGGCGACAAGAGCGAAACTCCATC  
ACACACACAAAAAATTAATTAATAAATAAATAAACATTGGTCAAAAAATATAAAGCTGTATC  
AACTGTATATAAATAATTCAATTAATAATATCATGCATAAAATCTGGGTGTAATAAAAAACA  
AAGAATAATTTTTTAAACCCAAAGCAAGGGGTGATGTTACCAAAGTCCCATGT  
ATCAGAGATGTGATTAGAAGGAAATCCTTCAAGGGGAGCTTATTTATGGTACCTCGGCCG  
CGACCACGCTAAGGG

Sequence 1160

CCCTTAGCGTGGTCGCGGCCGAGGTACTGGGATTACAGATATGAACTACCGTGCTCCCTG  
ATACCCTAAATATTTATCAAAATTTTCACTGCTATTTTCTCATAGGATTAAGGGGCT  
ATTTATTATTTTTATACTACAGCTGACCTTGAACAACATAGGGGTAAAGGTGCAGA  
TCCCCCGTGCAAGTAAAAAAAAAAAAATCATAAAAAATTTAGATTCCAGAAAACCTGAC

Table 1

TATTAATAGCCTACTGTTGACCGGAAGCCTTACAAACAGTTAATACACATTTTGTATGTT  
GNATGTATTATATAATGTACCTGCCGGGCGGCCGCTCAAAGGGCGA

Sequence 1161

CCCTTAGCGTGGTCGCGGCCGAGGTACTATAAAGCTTTTGTTCACACACACTCTGAAGAA  
TCCTGTAAGCCCCTGAATTAAGCAGAAAGTCTTCATGGCTTTTCTGGCTTCGGCTGCTCA  
GGGTTTCATCTGAAGATTGCAATGAAAAGAAATGCATGTTTCCTGCTCTCCCTCATTAAA  
TTGCTTTTAATTCAAAAAAAAAAAAAAAAAAGTACCAGTCTCACATTTGGCCCAA  
ACCTCAGGATTCTCCCTCTGCCTGTCTTACTTCATGGTACCTGCCCCGGGCGGCCGCTCAA  
AGGG

Sequence 1162

CCCTTAGCGTGGTCGCGGCCGAGGTACCAACCCTATTTTACAGATGGGAAACTGAGGCT  
CAGAGAGGTTAAATCACTTACACAAAGCCACACATTTTGAGTGGAGAGCTGGAATGTGA  
ATCCAGGCAGTCTGACCCTGCAGCTTATGTGCTTAACGATACTGCCTCTCATGTGGGCAA  
AGGATGGCCAGGAGAAAGGCAGGCCAGATTCCAAATCTGGCTTGACCGTCTAAGAGGC  
TGAGTCTTAACCTCTCTGAGCCTTTGCTGTTTCATCTGTAAAGTGGTCTCTGACAGCT  
GCCTCCTAGGGTTGTTTTGAGGATAAAGTGAAGTAATGGAGGGCCCTTGGGATATGGTAC  
CTGCCCGGGCGGCCGCTCAAAGGGCNAATTC

Sequence 1163

CCCTTAGCGTGGTCGCGGCCGAGGTACCTTTTTACCCTCTGAAATTAAGCAGGCTG  
TGGGGTGGTGTCTGAAACTAGGTAGAAGTCTCACCCCCAACAAACCTTTACCAGTGG  
TTTTAGCATGCAGAAGATTCTGGCCTGAACCACTTACTACTACAGAGGCTGCAAAATGAT  
GATTTTTTCATTCAATCTTTNGTAAATACCCGATTTTTTACAGGATGAATGTACCTGC  
CCGGGCGGCCGCTCGAAAGGGCGAATTCCA

Sequence 1164

ACTTTNTTTTTTTTTTTTTTTTTTTTCTTCTTAGCAGGGTCTCACTCTGTACCTAGGC  
TGGAGTGCAGGCAACAGGCCAAGACCCTGTCTCCAAAAAGAAAAAGGAATAATTCTAA  
AAGACTTATATTGATTTTTTCCCAATTAACATTAAACGCCTCCACCTGCCCGTGGGAA  
ATTGGGTTGGCATGTCACTGAAAGGCAAGTACCTCGGCCGCGACCACGCTAAGGG

Sequence 1165

CCCTTAGCGGCCGCCCCGGGCAGGTACAACTTTCTTCAGTTCTAATTTCTAAGATGTTTT  
ACTCTTTAAGTAGAAATGAAAGTCATCTGACTGAAAATTATAGCAGTATCTAATTGTTTT  
TCATAACTAGCCAAATTCAGAAATGTCCTGGATATATTTCTGGACAATGTAGATGCTGAT  
ATCCTTGGATTTAGGTTATACTGACTTTTATCTTTACCAACCATATTAACATTTGCATT  
TTCAATTTGGAATGAGAAATTTAGAGTAAGAGATCTGGATCATGCAGGAGGCAAGCATC  
AACCAACAATACTTTTATGTACCTCGGCCGCGACCACGCTAAGGG

Sequence 1166

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGCAGTGGTTTTGCTCTATACCACTGAAAA  
GCACTATAACATAATTGTTGNCCATGATACTGAAGCTTTTCCCTCACTTNTAGGTTGTT  
TACATTAGAGCTCTATCAATAAGANGAATACATATTACAGTGAATTCGACAACCGCACA  
AGTNGGCAGTNGGTATCCCCAACCTAATTTATCTTGGTAAATTCACCCTGTTTCCTAGTG  
CTGNTGGATAAAAGAGTGTTTACTTTTTATTGCTNTTAGACAGAGTAGNCTANATAANTT  
TTCAATTTATCAACATANCTAGACTTCTGTAAGTGGAATGNTCATTAGTAACCTCATCTT  
TTTGTGNTATAATTGAAAAACAGAAACGAGGCTTATTGCTATTGCAGAAATNCNAACT  
GGCAAAAGGCCNAGTATTTNTGGTATTCCATTAATATAACCAGCTTTTGAAATTTATGTG  
TTTGGATTANTGCCCTTCTGGGTTACCNAAGTATTGACTCTGNTTAGTTTGGCACCTTTTC  
CGGNCTTAACANAAAAATNGNAATTTGGTTAATCTCTTAAANATTNGGTNGNANCTAGT  
NGANNGGAGGTNATNNCCTAGGAANTTTACNAAGAAANTTTNGNNACTTGCCCNNGGGCNGG  
CGNTTTNAAANGGGCGNNTTCCANCAAANTTTGGCGGGCGTTACTAAGTGGGNTCNCNNCC  
NTCGGGACCCGAGCTTGGNCGTATTNTTGGGGAGNACCCCTCCCNCCCCCNCNTNTTT  
TGAATAGAAATTCCCCCCC

Sequence 1167

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTCTGTCTTCTAATTTTTAAATTTATTAATG  
TCTTCTATTTTTCTAAGGCTGATTTTTTCTAATGTCTGTATTTTTCTTTTTTTCACATC  
TTGACATAAGTAGAGTTCATTTATTTTCAATTTATCTTGATAATAAAATTAAGT  
TAGGAATAATTAAAGTTTTGCTCCCATGTTTTATGTGTAACAATCTCAATGTTGTATGC  
ATCTACTTCAAAATTTCAAGCTTCCCCTTTAAATACTGTTTAAAAAACTTTATGAAACC



Table 1

AGTATTTCTCTCAACCCTTNGTGTAATACCTGGTTTTACTTTAAATGTGGTCAAGATAAT  
TTAACCTGT

Sequence 1168

CCCTTTTCGAGCGGCCCCGCGGCGGAGGTACGCAGGGATATACAAAGGTGAAAAGAAACCT  
GAAATATTTGTTGATGGCTGGAATATTTATTTTTTTGATCAAATAGATGAACTGCCTACC  
TATTGGTCAGAATGTGGAAAAATACAGAATCTGTTGGGCAGTTATGTTGGGCCCTTCTT  
CGTTTCTACACAGAGGAATTTGATTTTAAAGAACATGTTATTAGCATCAGGAGAAAAAGT  
CTGCTTACAACCTTTTAAAGAAACAGTGGACCTCAAAATACATTGTTATTGAAGATCCCTTT  
GATTTGAATCATAATCTCGGAGCTGGATTATCAAGGAAAAATGACAAATTTTATAATGAA  
GCTTTTATCAATGGTAGAAGAAGTATTTGGGATTTCTGGTCAAGGGGATTTCAAANGAC  
TACCCCTCAA

Sequence 1169

CCCTTAGCGTGGTCGCGGCCGAGGTACACCTGGTTTCACAGAAAACAAAGCAACTCTTAA  
ACACCAGCTGGCAAATGATAGGGCTTTTCTTTGAATTANTCACCACAGGTGTGAAAGA  
CAGAATGACTAATCCATCTGATTAAACATANACCTTTTAGAAATCAATAACCTTATTTAC  
ACAGATGACAACCTGCTACTGTTCCAAGGCTCCTAATCATGGTTCAGTTCTCAGGGCCCTCA  
AGTCTTTTTCCATTCCATCNCANAGTANTACCTGCCCCGGCGGCCGCTCGAAA

Sequence 1170

CCCTTAGCGTGGTCGCGGCCGAGGTACCGCAGCTAGGAATAATGGAATAGGACCGCGGT  
CTATTTTGTGGTTTTTCGGAAGTGAAGGCCATGATTAANAGGGCGGCGGGGGTGGCTATT  
GTGGGAAGTCATAACCCACAGATAGATCAACCTAAGAATCCTGGCCCTTCTCCACTCTCC  
ACCATGACGGACAAACATCTTCTCAAGCAGTCAACGTANAATGCTTGGGAAATAGTCATA  
ATTACCCACATATAGTAATTAATAGATGGTAATTAATTGATCCTTGATGTGATGTTCTTT  
TGCATATTTCTTCATTCTAAAGNTGTTCCCTGCCCCGGGAGCGTTGGCTTTCGCTGTAA  
TCCCAACACTTTTGGGAGGCCAGGACAGATCGCTTGAGGTCAGGAGTTCGAGACCAGCCCA  
GCCAACATGGCGAAACCATGTCTCTACTAAAAATACAAAATTATGGTGACGCCCTGCTG  
TANTCCCAGCTACTCGGGANGCTGAAGCAGGAGGATCGCTTGAACCCATGAAGTGGAGAC  
TGCAGTGAAGCCGATATCGCACCANAAGNGCTCCAGCCTGGTTCGACAGAGTGAAGACTCC  
NTTCTTAAGAAAAAATAAAATAAANGTTGTTNTCTTGAAGAAAAAAA

Sequence 1171

CCCTTTTCGAGCGGCGCCCGCGGCGGAGGTACAGGAGGAATGTTGGTTGGGAGAATCACAGC  
TTTACAAGGGTGTATTATTTGATTTGTGTTTATTTGAGGCAGGTATTGTAATATAAA  
GGAATCCATTACCATGTCCTATAAATGACCTCTAGCCATTTTATGATTATTGTTCTCTGT  
AAAACCTTCAAGACTTCAATGAGAAGTTTGTATAAGAATTATCTTCTCATACCTTTC  
CTTGTAAGAGCGTATTCTGTTTTCTATCAGTTTCGACATGAAGTCCACATCACATGCTG  
TTCTTTTCTAGTTACATGATGTGCCT

Sequence 1172

CCCTTAGCGTGGTCGCGGCCGAGGTACCAACCCTATTTTACAGATGGGAAAACCTGAGGCT  
CAGAGAGGTTAAATCACTTACACAAAGCCACACAATTTTGAAGTGGCAGAGCTGGAATGTG  
AATCCAGGCAGTCTGACCCTGCAGCTTATGTGCTTAACGATACTGCCTCTCATGTGGGCA  
AAGGATGGCCCAGGAGAAAGGCAGGCCAGATTCCAAATCTGGCTTGACCGTCTAAGAGG  
CTGAGNCTTAACCTCT

Sequence 1173

CCCTTCGAGCGGCCCCGCGGCGGAGGTACGAAGACAGCATCCTTCAATCCCGCCAGCTCA  
TGTGCATCTGAGGGTGGGGCTCTGTCTTCATGCTAGAAACCAAACCTGCTCTCACAGCTTC  
CTGCTAAATCACCACGGCTAACGGATAAGCAGAGACGGACTACCCGCGTACCTCGGCCGCG  
GACCACGCTAAGGG

Sequence 1174

CCCTTAGCGTGGTCGCGGCCGAGGTACAGATTGCATAATAATTTTTAGATAAATGTCAGG  
AACAGAATCACATTCTTAAAGGCNGAATTTCTATAAACGTGTGTATATGTTGAACAGAT  
GAGCAGCTCTGCAAAGATGTGTATAACTGCATTTGAAAANGACAGTGAAAATTTTGGGTT  
ACTGTAGATGTCCACAGTCTGNCTTGAATTTAGTTCTGTGACTAAAGGAGGCTTACAG  
NTGCTCCAATTTTGGTTCTGNNGGGTACCTGCCCCGGCAGCCGCTCAAGGGCGAATTCAG  
G

Sequence 1175

CCCTTAGCGTGGTCGCGGCCGAGGTACATGGTCACAACAGATGAGCAACTGATATCACTC

Table 1

ACACATGCTATTAAGAACTGTCCTGTGATAAATAACAGACAAGAAATTCAGGCATCAGAA  
AGCGGAGCCACAGGTAGAAGAGTTATGGACAGTCCAGAGCGTCCAGTTGTAAATGCCAAT  
GTCTCAGTGCCATTGATGTTTCAGAGAGGAAGTGGCTGAATTTCCACAGGAAGAGTTGCCC  
GTAAACTGTCTCAGGTGCCAGACCCTCCAGATAACATGAATCTGGCCAAGAATTTTCCA  
GCACATATTTTTGAGCCAGCTGTGTTGTTAACACCAC

Sequence 1176

CCCTTTGAGCGGCCGCCCGGGCAGGTACCGCGGCCGTTAAACATGTGTCACTGGGCAG  
GCGGTGCCTCTAATACTGGTGATGCTAGAGGTGATGTTTTGGTAAACAGGCGGGTAAG  
ATTTCCGAGTTCGCCGCTACCAATGACTGGTTCATGATCCCCAAGAGAACAACAACT  
TAGGAATGTGGATTCTAATGATAGCTTTATACTGCTTAGGCAAATTTACTTCTGAGCCTT  
ATGTGCCTTCAGTGGTGCAAGCAAATTTCTTTACACTTTAGAGAGGTTGATTAACGAGT  
ACCTCGGCCGCGACCACGCTAAGGGCGAATTCAGCA

Sequence 1177

CCCTTAGCGTGGTCGCGGCCGAGGTACACTGAAGAATTAAGCTGTAATGAGGCAACACGC  
CTGCAACTTATTTCTTAATAGTTCAGAAATTAACAATTTGGTAATTTGGGTGAAAGGT  
ATAAGGAGCTATAAATGTTATTTCTGCACTTTATGTAAATTTCAAGTTATTTAAATG  
AAAAGTTAAAAAGTTTAAACATAACAGAATAGAACAACCTATTAAATAAATCTGAGT  
CCAGGCATGACACAGTGGTTCATGCCTGTAATTCAGGGAGGGACTGGGAGGCCGAAGTG  
GGCAAATCACTTGAGGTCAGGA

Sequence 1178

CCCTTTGAGCGGCCGCCCGGGCAGGTACTAAATGTTTTAGAAAGCAAACACTACAGGACTT  
AAAAAAGGTGATTTTTTTTTTTTGGCTGCAAGTAGGCACCTATTGTAATTTTTATTTCATG  
CTATGAACCTCATGATTTTCCCTTTATTCTCCTTTGATCCTACTTAAATAAATTTATAGAG  
TATTGAATAATATAGAACCAAGATAAGAACCCTAAGAGACTTTAGATGTTTATTTGTTCA  
TTAGCACTCTGAGTACCTCGGCCGCGACCACGCTAAGGG

Sequence 1179

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTNCCTTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCNGTNAAAAAAAAGTGCN  
TCCTTTAANGGNNAANNCATTTNCTGGATTAAAAANNCCCCNGGAAAAANGNNGGGAGC  
CNTTTTTGAAAAAANAATTANGGAATTTAAAAANGGGGGGNGAAAAATTTNNTGCGGG  
NNATTNNTTNAAAAAATACANTTTTTANTTTNANCATNTTTNNACCNNNCNACNTTTAA  
ANTTTNAAANAGGTTTTTACNCTTTTTTGTAAACAACCCCNCGNAAAAAAAANAATTT  
TTTT

Sequence 1180

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTCTTTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCCCCNANCTNNTTTT  
TTTNCNTTTTAAAAAANTTTTTNNNAAANGGTTTTTTAAAAANTTTNNNNGGNNGGA  
AANTTAANANNATNANNNGGNANAATTTTTTTTTTTTTTTTNCCTTAAAAANTTTNTTTNGG  
GGCNTTAANTTTAAAAAANNTTTNNNNCCGGNTTTTGNNNNGNNGGNGGGAAAAAA  
AAATTTAAAAAA

Sequence 1181

CCCTTTGAGCGGCCGCCCGGGCAGGTACTTAGGCTTTCATAAAAAATACAGCAGGGCAAG  
AGGACCAAGATGGAGGCAGTGATCAGGGAATCTCAATGAGGGTGAGACTGCGACAAAGAC  
TTGAAAAAGGTGGAGAAGCAAGCCTTGTGGGTATTTAGGGTAGCAGTAGTCCAGGCAAGG  
GGAACAACCTAGTGCAAGGCTCTAGGAGGCAATGTGTTTGAAGTGTTTAAAGACAGTAA  
GGAGGCTAGTATGGTTAGAACAGAAATGAGCAAAGGGGGCCAAAGTGGTAGAAGGTGGGGA  
TCAAAGAGGTAATGAGGCCTTG

Sequence 1182

CCCTTAGCGTGGTCGCGGCCGAGGTCTAATGAAAGCCAGATAAAGGGATGGACGATCAC  
AAGGTGAAGTCCCACANTAGGCTATCTGCAAGCTGAGGAGCAAGGACCANTCATCCAACC  
TCAAATAGNANAAAAANGNNNGNAAGCCCGACAGGGCAGCCTTCAGTCTGTGGCTGAAGG  
CCCTAGAGCCCCTGGCGAACCCTGGTGAAATCCAAGAGTCCAAAAGCTGAAGAACTTG  
GAGTCCAATGTTTGAGGGCAGGAAGCACCCAGCACGGGAGAAAAGATGGGCCGGAAGACT  
CAGCCAGTCTAGCATTTNCACATTTCCCCCGCTACCTTGCCCNCGCCGGG

Sequence 1183

CCCTTTGAGCGGCCGCCCGGGCAGGTACTTTTCTTTTGTGTATTACTTTTCACTTAGC

Table 1

ATAATGTCCTCCAGCTTCATCCATAGCAGCTTCATCCATAACTTCTGGGTGTAGCCATGG  
CAAGGGTAAACTGATATGGCACACTGGTGGGCATGTCTTCTGGAGAGGTGCTTCCAACCTC  
TTCCCTGTTTTAGCTAGTCCCTCAATTTGTCTGATGTCTGAACCCCACTGCCAGAGTTGAG  
TCTTGCCTGCTGAGTCATGTCCAGACTCCTACCTCAGAAGTATGAAGCATAACTGGTGT  
ACAAACACCATCTTCAGAACA

Sequence 1184

CCCTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGAAGCTCATTCTATACCCGAAGAGCA  
GTCTCAGAAAGCAAGATTACTTTTTGTGTTTTTAAAAAATGATTCTTTAATGTAANTTTT  
CTAAACATTCTGATTGGAAGTAGTGGATTCTAAATGATTCCAAAGTCATCTGTAATTCT  
TCTGTTTTGTGTTTCTGTCTTTTCTTCATTTTGGCTTTGGGTGGGGGGAGGGGGCAGG  
TGACACAAAGGATTTTTTTTTTTTTTTTTTAAATTTTGAATCTTTTCCAATAACCCA  
GCTAAAGATTGCACTGAATACAACCTGTATGCCTTTTGCAT

Sequence 1185

CCCTTCGAGCGGCCGCCCGGGCAGGTACTCCTGTATTTGTTCTTATGAAATGACTATCTG  
CCTTCTCGTATCTAGTAAGATTGGCTGGCTCAACTTTCTTCTGTCAAATTATATGGTTAT  
TTTTTATATTACCACATCAGCATTATATTAAGTGTGTTTTAATAGTTGAATGTATTTTG  
CCAACACTAGTATAGACTCAAATTTGCTATTTAATTTTTAAATACAATTTATTTTGTA  
AATCCTTTAAAAATATTTGGTTAGTTTGGATTAGAAATGATTTATGTTAGCCATGTGT  
TGAAGATGAAATTG

Sequence 1186

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACATATCCCTATCTACTATGTAAAGACAAAAAG  
GCAAATGAAATGATGTAATACAATGAACCTCAGAAAAATAAGCTCTGTAATAATCTCAGA  
CTGCTGTGTTTATCATATGCTAGAGTAAACTTACATTCTTTCTTGTAGAGAAAAATGAT  
GGTAAATCCATGCATTAATCAAACTAAAAACATGAAAAGGCAAGCCAACCTACAAGAGA  
AATACAGTTGGCCCTTGAACAACACAGATTTTGAACACATGGAGTCCCGTGTACCTCGG  
CCGCGACCACGCTAAGGGCGAATTCCAGCACACTGNCGGCCGT

Sequence 1187

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACTCTCAAATAACCTGTGAGTTGGGAAATTCCT  
CTCCTCTTGAGGTCCCAAGATGGCGTGGGGTTCTTGGGCCCTGTGCGAAAGTGGCATTCTT  
TACTAACACAGGTCAGGAACCCCTGCACAGGAACCTGTGTAGACAAGGTATGAGGCCAGTT  
TTCCCAAGGAACCTTTATTGGCTCCATAAGTCAAGTTTGAATCCTTAAAGGAAAGACAC  
CATTCCCATCAAAGTCTGTTAAACAACCTAGTTTCTCTAATTGTGTCCTGTTGCAAAAG  
AAAACAGATTCTTATTGCACTTGTGCAAA

Sequence 1188

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACATATCTTACTTGATTATTTTATTTTCTATCC  
CACCAATCCACACCTTCACTGGAAAGTAAGTTCCATAGAGGCGGAGACTTTTGTCTATTT  
TGTTCAATGAACATCCCAAGCACCTAGAACAGTTTCTGACACATAAGAAGTATTCAATTA  
TGTGCTGGCTGAATGTATGAATTAATAAGTTGAGATTGATCACTAGTTGAAGTATAAAT  
ATATATTTTGAAGAATAAATGCTACAGTAACCTGATTATGACAGCTAATTCTGTGTACC  
TCGGCCGCGACCACGCTAAGGGCG

Sequence 1189

CCCTTAGCGTGGTCGCGGCCGAGGTACAATGGCATAGTTGAGTAGTCACCACAGGACCTA  
GCTGAAATCCTAAAAATTTTATTATCCCTTTATAGGAAAAGTTGTTAATTCCTACAATA  
GACAACGAACATCAGAATCTATCATACACAGCAATGGTGAACACCTATTCCAGTTGGGG  
TGTGTGTGTGTTTGTGTGTGTGTGTATGTGGTGGGT

Sequence 1190

CCCTTAGCGTGGTCGCGGCCGAGGTACACCTGGTTTCACAGAAAACAAAGCAACCTCTTA  
AACACCAGCTCGGCAAAATGATAGGGCTTTTCCCTTCGAATTAGTCACCACAGGTGNGAA  
AGACAGAATGACTAATNCCATCTNGANTAAANATAGACCTTNNNAGAAATCAATNACNCT  
TATNTTACA

Sequence 1191

AATTGCCCCTTAGCGTGGTCGCGGCCGAGGTACTTCTACCATCTTTTGTCTACTTTTCGTG  
ACTTAACTGCCATCTGTGATACATGAGGACTTACCTAAATGTCTGAGAACTGACTTAC  
GCTTGATTACCAATGTTTGGAGTTTATAAAGCTCAATTCTAACAGAACATGATGATGTA  
TAAAAATAATCTTAAAAAATAAAATATGATGGTATAGTAATAAAGTAAAAATAAATATGG  
TACCTGCCCGGGCGGCCGCTCGAAAGGG

Table 1

## Sequence 1192

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACAAAACAAATCTGAAATATCTTATTAACAAG  
AAAGTAAAAATGTTATCAAAAACACTGTCGTCTCATCAAAAAGATTGAGAAGCCAATTT  
AAAGAGTCTCACACTGGACACAAAAATAATTTGAGCTTCAAAATAAACTGCAAGGGATTA  
AAACACATAAATTGTGTTAAATCCACAAGTTCATAATGATACTAAAAAAAAAAATCTT  
GTTGGTTTCCTCTAGAGGCTACTAGAAAATCAGCTCATTATTTCTGATATTGTTTAAAT  
AGAAGAAAGAAAACCAAGCAT

## Sequence 1193

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TCATNCAANAAANATAATTTTACACTTATTCTTTGAAAGANAAATCTATGGAATTTTNT  
TNTTCTAATTNAATTCCAAAATACATTCTNTNANCCNTATGCCCTNATACTAGNAACTNG  
ATGGTNAGCGGGTAAGTAGGTAGTAGTANAANAACANAANGGGAATTNNGGGGAGCANAA  
AAGGGANAAA

## Sequence 1194

CCCTTAGCGTGGTTCGCTGGCCGAGGTACATATACATTATNGTAATTA AAAAGCGTGCAT  
GTGTATGTATTA AAAATAATAGGTATATAAAACAAATACANTATNTACAATNNAAACACCT  
AAACGCAGAGGCTGCTGTTATC

## Sequence 1195

CCCTTAGCGTGGTTCGCGGCCGAGGTACATAGTGTGCGGAACTCAAATCGGCATTTAGATA  
GATCCAGTNGGTTTAAACGGCACGTTTTTGCTTATAAAAAAAGTG

## Sequence 1196

CCCTTAGCGTGGTTCGCGGCCGAGGTACTAAAGGGAAGTTGCTAGGAAATANAGCAGGTAA  
TTTNTCGTTAATTATGGAACCATNGCAACACAGTAAATATTATGTCTCTNAATTTGTCT  
TTCAGTGNTTTTTTGGCATGANTGTNATGGAANAGTAAACAAAA

## Sequence 1197

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACAGGAAGTGTCCGGAGGAATATATAGAAAAC  
GCTAGGCTTAATTCTCAGAGGGAAGATTGGGTGTTTGGAGTGGGAAGCAAACATTTTTTA  
CTGTATACACTTGTAACCTCGGCCGCGACCACGCTAAGGG

## Sequence 1198

CCCTTAGCGTGGTTCGCGGCCGAGGTACATGGCCCGCTCCCCCGTCCATTCCANTTTCCTG  
CCCTCTACTGGCCATGACGGTCATCACAGTGCCCTCCTCATTCTTAACCTTTTAAATACAC  
TTGAGACCCGCTGATTAAATNTTGCCTANGAAAAACAAAACAANAACAANAACAA  
AAAACAAGACACTCACATACAATGTTTTTAAATGCTTGAAAAGTACCTGCCCGGGCGGGCC  
GCTCGA

## Sequence 1199

CCCTTAGCGTGGTTCGCGGCCGAGGTACCACATTCTGCTCAGAAACTGCTCACTTCCTTA  
AATTGTCTTTTTTCCCCAGCGTGAAATGTATCCATTATAACTTGCCATTGCGCTGTTT  
TATTAGCATCCAAAAATGTGGAAGGCCTCCCAACCACCATTTCTNGCTGTGCTCTTAGGA  
TGTGCAGNAAAAAATATAGACCTAACAGNTTATGTTATAGAATGGGTTTATTTACTTTGG  
GTGACTGTTTATAGTTTTTAAATAAAAGACTGAACATTTTNTCGAAAAAAAAAAAAAAGA  
ANAAGAAAGTACCTGCCCGGGCGGCCCGCTCGAAAG

## Sequence 1200

CCCTTAGCGTGGTTCGCGGCCGAGGTACTTACAAAAAGCAAGAGAGAACAGTGGTTAAGG  
ACGCTGACTCTGGAGCCAGATTGTTTGGGTTCAAATCCTTGCTCTGTCTTACTGTGAC  
GATTTTAGGCAAATAACCTAACCTCGCTGTGCCTCAGTTTCATCATCTATAAAATGGAAT  
TTATAATAGAACCCTACATCATGAGTTGGTGTGAAGATTAAATATATTTATATCCCGGCTG  
GGTGCAGTGGCTCAACCCTGTAATCCCAGCACTCTAGAAGGCCAAGACAGACAGATCACC  
TGAGGTCAGGAGTTCAAGACCAG

## Sequence 1201

CCCTTTTCGAGCGGCCGCCCGGGCAGGTACGGAAGAGTAAGTGGGGAGGGATGGGAATGGT  
TCCTTGAGACAATCTTTTACTACAGTAGATGCTTCATGGATGGGAGAGTAGGGACTGGTG  
ACTTATTTATAGCCTTCTCTTTTAAAAAAGGACCCATTTCTCTTGAATGGTGTGGTGA  
AAATTAAGAAAAAAAAAAAAAAAAAGAAAAAAAAAGAAAAAAAAAGTACCTCGGCCGCGACCACGC  
TAAGGG

## Sequence 1202

CCCTTAGCGTGGTTCGCGGCCGAGGTGCTTTTTTTTTTTTTTTTTTTTTTCTTTTTTT



Table 1

AAGGGGGAAATGAAGGAACTTNCGCACAAGGGGCTGCCAGCTTTGTGGGGCATTCCAGA  
GAACCATGTGCTGTGAGGGCCTTCCGAGTCCATCTGTTAATCCTGTCATTGGAGACTTG  
AGAAACCAGAGCCCAGAAAGGGAAAAAGTGATTGTCCCAAGATCACACAGCACTGGAGAAAG  
TGGATGAGGAGGGGCTGAAGAAGCTGATGGGCANCTGGATGAGA

Sequence 1212

CCCTTCGAGCGGCCGCCCGGGCAGGTACATACAGTTTACATTGTGGTAACAAAGTAGGAC  
ATGCTATGAAGGCCCTTTGAATTCGCTTGACAAGAATGACAGAGATCTACTAGACCCAAT  
TTTTAAATAATATTGCTGGTTTTTGTCTCAACATGAATTAATAATGGTGGCTAATGTGCA  
GATTTTACATTTGGAGAACTTTAATTTTCAGTATTAAATTAGAATTTGTTTAATTACAA  
ATGCATTTAATGACACTTAAATTTGTACCTCGGCCGCGACCACGCTAAGGG

Sequence 1213

CCCTTAGCGTGGTTCGCGGCCGAGGTACCAATAAGCATACCTAGAGTTGAGATTTTGGTTT  
CTAAATGCCATTCTCCAATTAAGGAATCAAAGCACCTCAGATAAATGTTTAATTTCCA  
GGGCTGGGGCAGGGAAAGTGAAAGAGAATCACAGAACATCCTGTAATGACAGAAAAAGT  
CACAATAAATGGTGGGATTATGTCAAAAGGACATGGGATTCAACTTGAAAGATCTTCCAA  
TAGCCAAATCTGAGAAAAAGTTAAGCAACAAAAAAATAACAAATCTTATAATCTATAGA  
AAAAATATGAATGTATA

Sequence 1214

CCCTTAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTANAAATNGG  
CGGCAGTTTATTAGTCACAACCTGCTCACAGGGAGGGAGGTCACCACATGCCATGCTGGGG  
TCACAGGANAGTTGCATTTGGGAATANAGTGAACCANTAGGGGCTGTGGAAGGCAGGCTT  
TGCAGTAACAAGAGGGAAGAGGCGATTCTGGCTCCTCCAAATGTGACAGGCTTGTTTGAA  
TAATTTCCAGGCTGGAGGGAAGTGAGCCACGTTGANACCCANGGAG

Sequence 1215

AGCGGCCGCCCGGGCAGGNACAATTAATTGTGTTCTTGACCTGATGATTTTNGAAAA  
TTTGCTTTTCTCTTTAAGAAATTTAAGTTTTCAAGGGCCGTATTAGTTATCTAAATATTT  
TGGGCTAATGTTGACTTATAATAAATAAAAAATTTAGAAATATATTCATGATGACAATTT  
TGTTACTTACACTGCCTATTCTTTATTTCTTTTTTAGTTCAAAGGTGAAATTTTGACCTT  
TGTTATAACAAAGCCTCAAGAAAAGAGAAATCTGCCTTTTAAACATTGGTTTTCTTGCA  
AT

Sequence 1216

CCCTTAGCGTGGTTCGCGGCCGAGGTACANGGAGGAANTNAGANGTAAATNNAACCAGAN  
CTGGATTACTCCGGTCTGAACTCANATCACANTAGTGACNTTAATCTGTTGAACAACTG  
AAC

Sequence 1217

CCCTTAGCGTGGTTCGCGGCCGAGGTACCACTGTGCTNTAGCCTTGGTGACAGAGCAGAGA  
CTGTCTTAAAAAANAAAAACANAAAAANAATTTNATTAATAATTTAAAAAATGAAA  
AAAAGCTGCATGCTTGNTTTTGTTTTAGTTATTCTACATTGTTGCCATTATTACCAA  
TNTNGGGGAAAATNCAACTTACAGACCAATNTCAGGAGTTAAATGTTACTACGAAGGCAG  
ATGAACTATGTGAATGAACCTGGTAGGCATTATTTATTGAATNTNANCATTCCANATG  
TCCAGCACATTTTTAAT

Sequence 1218

CCCTTAGCGTGGTTCGCGGCCGAGGTACAATGTTAAAAATAATCTGACTTTTCTATGATTTG  
GCTTTTCTGCCTTGAGTAACTATNTAAGATATCTAGCGTGATNTNTTNTATNTGGGCTA  
CTTTTTAGAACAAAACANAGGTNTTANAANAACCCTTGCCACANGGNCCTTTGAAC  
CGTTTACCTAAGTCAAGTGTAATTGAAAAACATAACCAAATGCACCANGGGGTNTATTGT  
NAGATAATAAAA

Sequence 1219

CCCTTAGCGTGGTTCGCGGCCGAGGTACCTTTTTTTTTTTTTTTTTTCGTCAAAGTCACTA  
TTTGGGCCCTAACATAATCCTGCTCANAGCGACGGAAAAAAGGCAAGCCTTTTCAAACAT  
AACTCTCTCTACAAGCCAGCTATTATGGCAAGGGAAAAAAGAAAGCATCTAGATAAATAT  
CTATCAAAATTAACTTTAANAGAAATACTCTCTTTCTTAAAGCCCTTATTTTTTAAGA  
CACTANAAAAATAAGTTACTATAAAAAGTGGTGGTCTGGGGGCTAAAAACAAAACAAAAA  
AATCCTCTTTTCTACATTTTTTAGTTTT

Sequence 1220

CCCTTAGCGTGGTTCGCGGCCGAGGTACAGAATTATCAACTGATTGGTTCAGTTGCTTCCA

Table 1

ATGCTGGTTGATTTCCCTCATTGTGTAAACATTGACAGGTATGTGACAAATGGGGAAAAA  
AAATCCAAATAATAAAGTGACATATTGGTGTTCATAAAAAAAAAAAAAAAAAAAAAA  
NAAGTCCTTTTTTTTTTTTTTTTTTTTTTTTTTTACTTNATAAAAAANACNGAGTTTTATTCA  
NATGTNTNTNTTTTGNNGCCCCACCNTTTNNATGTTTGACCACCNTTACNACTNTNTCCT  
NTNATAACATTNCCATACATACTTAAAC  
Sequence 1221  
CCCTTAGCGTGGTCGCGGCCGAGGTACCTGAGCCAGGCCAATCAAAGTGTTTCTCAGGAA  
TTAGGAATTTACACATAAAACCTGGAGAGATAGCACATGCTCTTTCTTTCTTCTTGGAC  
TGTGAGCTGTACCTGCCCGGGCGGCCGCTAAGGG  
Sequence 1222  
CCCTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTATTTT  
TTTTTTTTTTTTTTTTTTTTTNAACAAACCTGTNTTGGGNGGGTGNNGGTATAATACTA  
AGTTGANATGATATCATTACGGGGGAAGGCNCTTTGNGAANNANGCCTTATTTNTNTTG  
TCCTTTGNACTGGGCTGGAANACCTAAACTACNTGTAAATGTAAGTAGNGACCAATA  
AAAAATAAGGNTACCTTAACCTCTTTTTCTCT  
Sequence 1223  
CCCTTCGAGCGGCCGCCCGGGCAGGTACACTGAACAATTTGTTAAGATAGATCTCACCT  
TGTGTTCTTACTGAAAAAAAAAAGAAAGAAATAGAACAGAAAAGCAATTGGATTTTAA  
TTCTGGAAACTCCTTTCTCTTCTTACATCCAGGAAATTTGCTGTTTATTTTGAAGCA  
AATTTAAACCTATTTAAGGGAGAGAGAGCTCTTGTAATAATTCATTTATTAGTTCTGGAC  
CAATGTTATTTATAAGCTATTATTTCAAATGATAAAAAATAAATGCATAATACATTTGAT  
GATAGAACATTTTTCTTTTT  
Sequence 1224  
GCAGAAATTCGCCCTTAGCGTGGTCGCGGCCCGAGGTACTTCTCAAGACCTCACTTTTATC  
TGTGAAATGTGGGAAGGTTTATAAGTAAATGAATGAGGGGTGAGGTTGTACCATTAAAT  
GNGCCTTGAAAGTNATATTTGTGGATAGCTAAAAGCAATTTTGGTTTATTTGGTTTATTC  
TTTGGTTA  
Sequence 1225  
CCCTTAGCGTGGTCGCGGCCGAGGTACATCATTGATGTATGTTTTGTTTTTTAACAT  
AAAAGGATTATATCCTTTTCCGCCAGCTGTTTTCACTCAATACATTGTGAAAATATTTTC  
ACATATGTTGCATGGGTTTCTATAACATTTGAAATGACTGCCAAATATTTCACTGTATGA  
TCATCATTTAATATTATATCAATTTTGTATTTAAGTTAGAACTTTCCATTACCATA  
AACATCATTATGAATGAGCTTTCTTGAAGTGTATTTAATATACTTCTTAGGATAAATG  
CTTAAAGTAATAA  
Sequence 1226  
CCCTTCGAGCGGCCGCCCGGGCAGGTACATATACACTATGTAATTAANAANGCGTGCA  
TGTGTATGTATTAATAAATAATGGTTATATAAACAATAACAATATATACCAATAAAACACC  
TAAACGCAGAGGCTGCGTGATATCCACAATAGTAATACCAATAGTATTAAATGATGTNTAT  
GTAAACACAAACAAAAGCAGCGGACCGTATTAAAGGCAACACACAAAAGCACACAAAA  
GCAAAGCAAAAAGCCCGCCAGTAATGTT  
Sequence 1227  
CCCTTTCAAGCGGCCGANCGGGCAGGTACCCGATATGTATGTTGAATTAAGAGGATTTTT  
AAAAAATTACCCTTAAGTCTTTGACATNACAGCCCTGTCACTTCTTGTGAGTTTGTGTA  
TGTGTTGNTAATNGGAATGTCTATTTCTTTAAAGAGCAGAGAACTACAGTTACAGGGGTT  
ACAGTGTGAGGGGTGACACATTGCTGGATTCTGAGCTCAGGCAAGTCTGTCTGTGCTTT  
ATTAATAGAGGTCTATCTTTCTTAATACTGAATGCAATGGACCATTCCAACCTAAGTTA  
TCTNGATATACTGGGATTACAATA  
Sequence 1228  
CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTANANA  
CAGAGTCTCCCTGTGTTGCCAGGCTGGTCTCAAACCTCTACGCTTGAGCAATCTTCCCC  
CTTGGCCTCCCAAAGTGCTGGGATTACAAGCATGAGTCACCATGCCAGCCAATAATGAT  
TTCTTGATTGAAGGAATGAATGAATTAAGGTTTCATCTTTGGACACAAAGGCANACAAA  
AGTTTGACAAAAGGCATTTTGAAGTACAGACCTTTATTNTAATATTAGTCTAAACAGNG  
GGA  
Sequence 1229  
CCCTTCGAGCGGCCGCCCGGGCAGGCACAGAAAAAATCTACACCAGGTAACACTGGA

Table 1

GGATGCAGGGCTACATTTGCCACTGAAGAAACATTGTTCTCTTGCATCTGAATTCAGTG  
CTTTCCAAATAGATGCGTAGATGATGAAAAATGGAGCAGCTTCTTTTATTCTTCTTCTT  
TCCTCCTTGAATTCTAGTACTTTGTGAACTGTTGAGGTGTCCCTTCCTAAGTCACAATTC  
ACACTGATGCATACACTATAGTGAAACACTGGCTTTAAGAAAACTGATTAAACAGAAAAACC  
GGCAATTGTTATTTATTTTAA  
Sequence 1230  
CCCTTTGAGCGGCCCCCGGGCAGGTACAGGTTCTAAAACGAAAGTATTTGGGTAGTCCA  
CTTAGTGATATTAGTGATNGTGTAGACAATAATATTAGTCCTAGA  
Sequence 1231  
CCCTTTGAGCGGCCCCGCCCGGGCAGGTACTCCATAATATAATCTTTTAAATGGGCAACT  
TCTAAATATTGATCAACCATTAAATAATGCTTATAGGGGTAAAAGAAAAATNNTTGAAG  
CACTGAATTCAGTAACCTGGGTTCATGGTCCAATTTTGCTCACTACTTCATATCTTTATG  
TAGAATAATTCCATNAACATGTTCCCTAAATCCCATCAGTTTGTAAAGGCAATGGATT  
AAATTATTCAAATGTAGCTATTTAACCCTCAGTNACAATGCCTAGAAACCTATTTATTCA  
TCTGTAATATTAAGAAGGCTGAATTTGATTGGATCTTGAAAAATCC  
Sequence 1232  
NAGGGGGGCCGGAAATTTGGGGGGCCCCCTTCTTAAGAATGGCCATTGGCTTCCGGAGGC  
CGGGCCCCCGCCAGGTTGGTGGATTGGGGAATTATTCCTTGCCAGGAAATTTCCGCCC  
CCTTTTAGCCCGTTGGGGTTCGCGCGGGGCCCGAAAGGTTACCATTTTAAAAAAGG  
GGGGGATGGCCTTAAATAACCTTTTTTAAAAAANAGGGTTTTTAAAGAAAAATTTA  
AAAAATTTTAAAAA  
Sequence 1233  
CCCTTTGAGCGGCGCCCGGGCAGGTACTCCATAATATAATCTTTTAAATGGGCAACTTC  
TAAATATTGATNCAACCATTAAATAATGCTTATAGGGNAAAAGAAAAATTTTGAAGCA  
CTGAATTCAGTAACCTGGGTTCATGGTCCAATTTTGCTCACTACTTCATATNTTTATGTN  
GGATTATTCCTATAAACATGTTCCCTAAATCCCATCANTTTGNAAAGNCAATGGATTAA  
ATTATTCAAATGTGGCTATTTAACGGCCAGNAAACANTGCCTAGAAACCTAT  
Sequence 1234  
CCCTTAGCGTGGTCGCGGCCGAGGTACAGTTTTTGCNGATTGCNNNANGANTGCCCCATG  
AGGGGGGANAAAAAAATNTTTTTTTATTATNTTGGATCTAGCCTANNTCTATTTTTTC  
CACCTGCCCAATTAGGTATTTCCCANNTGCNACCGGCCAATTCCANAATTAATTTGT  
NCCTNTTATAATTNGTTTNCNTNNANTCCAATTGAAACCCCTTTTGGGGTTATTGNNTCCN  
CNCACACTTTTTTNAATTGTTTAAANNCCANTAAAAAACANTNTTNCNTCGGNTATATAAA  
ATAANACGNCCTTTTTACNTTATNGTTAATTAANAANCNCAATTCCTTTTNGTTNGNCC  
AACCCACTTGGAAAAANTTCCAANTAAACCTCTNCCTTCCACCANGNGANGGACCAAAANN  
AGGAAAGTAACCCCTTANTGNNAAGGNNNTGGGGGAAANNTTNGGGCCTTTTGGNGG  
TTNCCGNAANAANAAGGGGNTAAC  
Sequence 1235  
CCCTTCGGCCGCCCGGGCAGGTACTCTGTAAGTCTGGAAGAACAGGTACACATTTATTTCAG  
ACTTCTCCCCCACAATTTTAAATCAAGCACCTCCCAGTAACAAGTTATTTAATTAGATCG  
ATTTTAAGTTGACAACAGATGTATCAGATGAGGAAAAAATTGAGCATGTGTGGTGTGATT  
ATATAATAGAATTGGTTTCTATAAACCATTTATAGTATTCACTTTTATAGTATTACTTT  
TTCAGATGTATGGATATATAGACTATTATTTACTAACTGAGGCTCTGCGAAGTGTAGTGT  
AT  
Sequence 1236  
CCCTTAGCGTGGTCCGCGGCCGAGGTACTCGGATCTNTTATNNGTNNAAATAANNCTCT  
TTCGTCTACAAGCCACACTTATNCAAAATNTGTGGACAACCTCACACTNGCTATNATACC  
TGCTTANATTCTCCTANTTAGTCCCTGAGGGTTTATACCTTTTATTCTTTCAATTGAAAT  
TTAACAGAGGTTTCTGTGCGGAAGCAGAGTTAAATGCCTATGTTNACTCCATCATGGTTAT  
CTGAAAGTCTGAGGNGCAATTTCAAAAACCTCA  
Sequence 1237  
CCCTTAGCGTGGTCCGCGGCCGAGGTACTTCTGACTAACTGGAATTATGAGTGAGGAAGA  
GNGNATTACTANATAAATGACTGGGGCAANGCAAAATGAGGAGGAAATTANAACTGTT  
TGACAANACTTTTAAAGAGCCTACTTTGAAATNACAGAAGTCTTGATNAATNTTGCAAAT  
AATGGCTAGAAAGTATGGTTTAACTGGACCCTATTATGCCTTTT  
Sequence 1238



Table 1

CCCTTTGAGCGGCCGCCGGGCGGCGAGGTACAAAGCTAGAAGCAGCCTGGTCCAGATGGCTA  
TACAAACCCGAACTGTNTACACCCAGACTTTATTCTTCTACAACCAAATTCCTCAAACA  
CACAACTCTGAACAGTAGCAGTGAAAGGGAGTTTAAGGTGGGGGTGAGGGAGAAGGGGAGTA  
ATATGGTTTTTTAGTAATATAGTAATTTACA

Sequence 1239

CCCTTTGGCCGCCCGGGCAGGTACGCGGGGCGGTATGTNGGGCCAGAGCATCCGGAGGT  
A

ANANAACCTNTTTTTNTNCTTAGGAGCCACTATGAGGAGGGCCCTGGGAAGAATTTGCCAT  
TTTCAGTGGAAACAAGTTGGTCCGTTACTAGCTAAGATGTGTTTTGTACCTCGGCCCGC  
GACCACNCTAAGGGCNAATTTCCAGCACACTGGCGGCN

Sequence 1240

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGCTACCAAACCTGCATTAAAAATTTGGT  
TGGGGCGACCTCGGAGCAGAACCCAACTCCGAGCAGTACCATGCTATATTGGTCACTGT  
AGCTCTGTAAACATAGTTTGAAGTTGGGTAAATGTGATTCCCTCTAGCTTTGTTAGCTCTGT  
GTTTTCACTTAAGTATTACTTTAACTATTAGGGCTCTTTTTGTTCCATATAAATTGTA  
AAATAAATTTTCCAGTTCTGTGAAGAATN ; CATCGGTAGTTTGATAGGAATAACATTGA  
ATCTGTACCTGCCCCGGCGGCCGCTCGAAGGGCGAATTCGAAGCAC

Sequence 1241

CCCTTTGAGCGGCCGCCCGGGCAGGTGGATCACTTGAGGAGTTACAGACCAGGACTGGTC  
AACATGGCGAAGCCCCATCTCTACTAAAAATACAAAAATTAGCTGGGCGGTGGNTGGCG  
TGTGCCCCGGTAATTAANTNCCCNANCTTACCTTTGNGGAAAACTTGAAGGGCCAGGGA  
AGAAAAATTCNCGTNTTTGGNAAACCCCNCCNTAAGGGTTGGGGAAGGGATTGGCCAAG  
GTTGGAAGTTTCNAAAAGGAATNTGGCCAACCACAAGGNTGNCCAACCTTCNCCAAAGCC  
CCCTTGGGGGNCCCCAAAANNNAAGNTTGGANGTAACCTTTCCCAATTCCTTTNAATNAT  
ATTACANNATNTAGATANACNNTATAANAGNGANNNGANANTGGGNTNACCCCTTNGG  
GAGGCNCCGNCNGNAACCCCANCCNCCCTTTAANAGGGGGGGGGCG

Sequence 1242

CCCTTTGAGCGGCCGCCCGGGCAGGTGGATCACTTGAGGAGTTACAGACCAGACTGGTCA  
ACATGGCGAAGCCCCATCTNTACTAAAAATCAAAAAATTAGCTGGGCGGTGGTGGCGTGTGC  
CCGTAGTAGTCCCAGCTACTTGGGAAGACTGAGGCAGGAGAATCGCTTGAACCCGCGAGG  
TGGAGGTTGCAGTGAGTCAAAGATTGCACCACTGCAGCTCCAGCCTGGGCAAGAATGAGAC  
TCCATCTCAAAAAAAAAAAAAAAAAAAAAAGTCCCTNGGGCCCGCACCACNCTAAGGGCG  
AATTCACACACTGGCGGNCCGTTACTAATGGATCCAGCTCGG

Sequence 1243

CCCTTAGCGTGGTCGCGGCCGAGGTACAGAATTCAGTTTCTGGGGAAAGTGAAGCNTGAA  
GGGAATCATANGAAAAATTTGATTTTTGTGTATGGTGTAAAGAAAAGATTCCGATTTTCA  
ATCTTTTTGCCACANTGGGATTNTCCCAGGCCTTTTTTCCCAACANCCCATTTGTTATTTT  
GGAAAAGGAAGNAACCTTACTCNTTTTTCCCCCGCTTTTTTGGTCGGGAANTATCCTTTT  
GGGGNCAAAACCTCTTATGNTTTGGGNAAGAGNGCCCTTTTACCTTTTTTGNCCCT  
TTTCAACCTCTTNCATTTGGGGTCTTTCCACCAATTAACCCAAAAGGNTTGAACCC  
CCTTNGGAAGNTTTNCANCCCTTCCCCCAATTCCTTATCNCCTTGNGAATTNCCAAAAA  
AACNTTGGTTGCTCCNGTTTCCGTTTCTTTAAAANTTTTCTCNCGGGGNAAGTGG  
GAAACCTGGTTTTGGCNTTCAACCCCTTNGNCATTTGNCCATTGGAATACCCCTCAAGN  
AAAGNAAAAGNCCCTTNGNTTTTGTNNGGCCNTTNGTTGGCCCCAANG

Sequence 1244

CCCTTAGCGTGGTCGCGGCCCGANGTACAAATAANGTCTTCCAAGGGTTTCAAGATAGAAA  
ATGATNTCTTCCAGCTTGGGGACATTTGGGAAATTGGGATTCTTTGGGGAAATGTACGTA  
ATCAGTATATTCTGGGAAAACATANTANAGAATGAATNNATAAATTCATTGAATTNGGA  
ATATGTTGTCCATTCTCCCTGTAACATAATGCTATCAAGATANAGTAGAAATACCACATTT  
CAAAANCAGCTGGAGTANACAGGTCTTCATAGGCTAGCTTGGAAACCTAATAGCTATTAA  
TAATGAAATTTTAATTATACTCTGGATTCTAAACAATGAACACACANTGATCTTTTTGAC  
TT

Sequence 1245

CCCTTAGCGTGGTCGCGGCCGAGGTACAGATGTGTCTTTCTTATAGTCNGTCAATGCTG  
GGAAGTAACAGGCAGATGTGACTTCACTTGANCATTTGGANGAANCAAAAAAGGTTGCGC  
TTGNTCGNNCCTAGGGTTAGATGGGCAAGGACCTTGCTTTTTGCNTCCCAATTTCTT

Table I

AGGGTAGNTGTTNTTCTTTGNGTTGCANGGGATNNGTANACCGGTACATCCTTCTTGNNG  
GAACCAAGGGGNNNACNTTATGAANTGNAAAAGGGGANGTTCCTTTGTAGTAAANGGCCT  
TGGATTGGTTTTCAAANNNGNAAGNTGGGGTTCCACCA

Sequence 1246

CCCTTAGCGTGGTCGCGGCCGAGGATACTTTTTTTTTTTTTTTTTTTGNCTAATTACTA  
CCTTNTATTCTAATTGTGAACCATGGCCCTGAAAGCTTGATAANCAAGACTTGGCTGAAN  
CCAGAAGGGGNAACTAAGTGNNGTTCGGCCAAGNAAAAGGGATTANTTGGGGATGNGAAA  
ANTCAANTGGNCTTNTCCCTT

Sequence 1247

CCCTTGCGCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTATTTTTTTANATGA  
AAAANCTGTAATTCCTTTATTTGAAACAANTGCNTTCAAAGAANTNAAAACACTTCAAGG  
ACTTCTAGTAAACATAAAAGGTCNAACAACTGTGGCAAAAANTTTTGAATTNGTANAT  
AAGCTAANATAGGGGTAAACNAGTACCCAGGCCANAATTAAGGNGGNATNNCNTCAANT  
ACTTCANTCANNNAAGGG

Sequence 1248

CCCTTTGAGCGCGCCCGGGCAGGTNCTATCCCTATGAGGCATAATTATAACAAGCTC  
CATCTGCCTACGACAAACAGACCTAAAAATCGCTCATTGCATACTCTTTCAATCAAGCCA  
CAATAGGCCCTTNGGNTAGTTAACCAGCCCATTTCTTCAATCCAAAACCCCNCCCTGNA  
AGCATNNNACTCGGGNNGCCANNTTCAATNTCTTACAATNAAATCCGCCNCCCAACCGG  
GGCCTTTTAACAATTNCCCTNCCAATATTACCTTAATTTNCTTGGGCCCTTAGGCCAAT  
AANCNTGCAAAAACCTTAACGGNAAACCGGGCAACCTTCCANCCCAAGGNTGCGGCCAAT  
TTCNATTAATAATTNCCCTNCNTTCTACCAANAGGGGA

Sequence 1249

CCCTTAGCGTGGTCGCGGCCGAGGTACTATATGTTGCTCTCTCAGTGCCAACAATGAAGT  
TTTTGCAATTCTAGAACTTGGATTTTTTTTTTAACAAAAGTCCCAAACACCAAAATGT  
AAACAAGATANNGAGATTAATATTGNAGTGGNNGTAATTTAATTAAGTTATATTTTGGG  
TTAATTTTAACAACCTGAAGTCTTATTGTTGAACTTATTTTCA

Sequence 1250

CTNTACATGCATGCTCCAGCGGCCGCCATGTGATGGATATCTGCANAATTCCCCTTAGCG  
TGGTCNGCGGCCGANGTACTTAGGTGCCTACAACATAAACAGCA

Sequence 1251

CCTGTAGATGCATGCTCGAGCGGCCNGCCAGTGTGATGGATATCTGCAAGAATTCGCCCT  
TCGAGCGGCCCGCCCGGGCAGGTACGCGGGCAACAGTTAAATCAACAAAACCTGCTCGCCAG  
AACACTACGAGCCACAGCTTAAAACTCAAAGGACCTGGCGGGTGCTTCATATCCCTCTAG  
AGGAGCCTGTTCTGTAATCAATAAACCCGATCAACCTCACCACCTCTTGCTCAGCCTAT  
ATACCGCCATCTTCAGCAAAACCCTGATGAAGGCTACAAAGTAAGCGCAAGTACCTNNGCC  
GCGACCACGCTAAGGG

Sequence 1252

CCCTTTGAGCGGCCCGCCCGGGCAGGTACCTATTATTATTTCAAATTTAAAACTTCTTC  
TTTTTAAGAGATAGGGTATCACTATGTTGCCAGGCTGATCTTGAACCTTTGGCCTCAG  
ATGATCCTCCTGGGTTCAAGTGATTCTTCTGCCTCAGCCTCCCTCTTATTTGCTTTACAA  
GTCCTGCTTCAGGGTTACCTTCCCTGACCACTGCTGCCTCCCTCCAGCATTTGCCAGGG  
ACTGTCATTGCCCTAGTTTATTTTTCTGTTTTGTTTTTTTTTGTCTGTTTTGTTTTT  
TTTGAGACAGCGTCTTAGTCTGTCGCCAAGGCTGNGAGTTGCAGTTGGCCGCAATC

Sequence 1253

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTACTT  
TANTAGAGATGGGGTTTTACCATGTTGGCCAGGCTGGTCTTGAACCTNTGACCTCAGGTG  
ATCCACACGCTTCANCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCACCACGCCACG  
CTAAATATTTNTTTATAGCAATGCAAGGATGGCCTAACACACTGCCTAAATCAAATTGC  
TATTCACTTCAAGGGTATTTCAATTTACCTGACTAGCTTTTTTGGGTGCATNTGGAACATA  
ATGTA

Sequence 1254

CCCTTTGAGCGGCCCGCCCGGGCAGGTACAGTCTTTTATCTTGGGATAAAATGGCTAGAT  
GAGTATGGACAGGGAGGCAGGGCAGATACAGTCTTGGCTTCTGGTTTTAAGAGTTCTTCT  
GAACCACAATCAACTTCTCCAAACACCCACCTTTGTCTTCTACCACAATAGGGGTCAGAT  
CTATTGCTGACTTTTCTCCACCTTCTCTACATCAGCAGCACCTAGGGGAAGAAATGTTA

Table 1

TTGAGACTATACCTAAAGGAAGAACATTCTCCTCTGTTGCACACTATTATCCAATTGGAT  
AGACCCACATCTAAATGTCTGCAATTACAGTAATGTCAGCTGGGCATTGGTGGCTCATGC  
CTGTAATCCCAN

Sequence 1255

GAATTCGCCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTC  
TTTTTTTTTTTTTTTTTANAATAACAAAAATTTTTACTNAAACATAAANATTN  
CAGANGTTTCCNNACAANCCNTNCAAAATGGTCACAANCTTTTTTNA

Sequence 1256

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTAGNT  
TTCTTTTTAATGAGCTCACCTTTAACACAAAAAGCAGGGGTGATGTATTTAAAAA  
AGGAAGTGGAATAAAAAATCTCAAAGCTATTTGAGTTCTCGTCTGTCCCTANCANTCT  
TTCTCANCTCACTGGCTCTCTANATCCACTGTGGTTGGCAGTNTGACCAGAATCATGG  
AATTTGCTANAAGTNGGAAGCTTNTACTCCTGCAAGTAAGCANANATCGCACTGCCTCA  
ATAACTTGGTTATTTGAGCCNCGTNTTTTGCAAAACTACTTTTTCTANTTTTTCAAN  
AATTTACTTTCAATNGTTTTTAAAAAA

Sequence 1257

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTNGGGTT  
TCAAAACCTCAGTTTGAAAATGAGAGGAAAAACAAAATAAATGATTTACATAATCAAAGGA  
TTAACTGATACAGACTTTTATTCTAAATGCTCACAAGCACAGAAACCAACAAGAAATCAG  
ATCTTGAACGAATTTATAATGATTCCTCCAGGAAGCACCGNNGGCAGCCACATAAGCCGCT  
NTTACACCTGGCTGCNTTCTGCCAAGTTAGTCCTCAAAGAGAAAAACAAGGGAGGNAA  
AAGACCNAAAAAACAACAAA

Sequence 1258

CCCTTAGCGTGGTCGCGGCCGAGGTACCTTGCTGGTTAATAACTAAGATTTTGCCTTT  
ATTGGGTTAGGTATCTTTTTTTATTTTAGCACCTGATAGCTGTCTTCTACTGAGTAA  
GAATTATAACTTTTAGATGTCACAGAAATTAGAGTATTTATTGTCAA

Sequence 1259

CCCTTTGAGCGGCCGCCCGGGCAGGTACTTCAACAATTCAAAAGTTTTTGACTGAAAT  
AAGCAAACCTCACTAATGATTATGAAGTGAACATAACCAACAGGCTGTTGGAGAAAAAC  
ATACCTCTTCCCTCAAGTAAGTTTGCCATGCCCTACCATATCTGTGAGTGGTATTCTGGAA  
TGGCCAAATGGCCCTGGTAGGACTATGGGTCTGAAGTCGTGCTGCCTGGCTCTGGCCAC  
ATCCCTGTGGTGCTTTTCCATCCTGATCTACAGATATTGAGAACTGCAGGGAGTTCTTT  
TAGTCCTGGCAATCTGAACCTGATTTTTTG

Sequence 1260

CCCTTTGAGCGGCCGCCCGGGCAGGTACTGGTGGGATTGTTAGACCATCCCAAAAAGGA  
AGTGACACCTTGAGTCTGTGGAGCTCTCAAGAATATCTCTTTTGGACGTGACCAGGATAA  
CAAGATTGCCGTAAAAAAGTGTGATGGTGTGCCTGCCCTTGTGCGATTGCTTCGAAAGGC  
TCGTGATATGGACCTTACTGAAGTTATTACCGGTGAGTTCTAGGCCTAAGGAAATTTGCT  
AAGTCAGTGTTACTCTCTAGTGATGTTGAGAACTAGAGGGATTTCCAGACCTTTACTTT  
TTGATGAAAGGTTGTGAAGTGGTGGCTGTGGGTCAAATCCATCTCACAGNATTTGTTTT  
TGGATC

Sequence 1261

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTCTTTTGCC  
TCCTCTGACTATATTTTCAAATAGTCTGTCTTCAAGGTCAGNAATCTTTCTTCTGGCA  
TGATCAACTCTGCTNTTAAAGGACTCTGATGCATTCTTCAGTATGTGAAGTCTTTTTTC  
AGCTCCANAATTTCTGCTTCAATCTTTTAAATCAATCTCTGTAAATGTATNTGGTAA  
ATTCTGAATTCCTTCTCTTTGTTATCTTGAATTTCTCTGGAGTTTTCTCACTATTTTG  
AATCTGTCTTGAAAGGTCACAATCNCTGTTTTCTTAAGGGATTGGGGCCCTGGGTAAT  
TTATTTTAAAA

Sequence 1262

CCCTTAGCGTGGTCGCGGCCGAGGTACACTCCATCAAGCCTGGTTCCTAGGATGCTGGAC  
TTCTAGCTTAGTGAGAATGCAGTACTTTTTGAAAACCTCGTGAGGAATCCCTCAAAT  
GCTGTAAGTGAAGTGGGTGAGTGAAGTTCAAACGACTTTTCTTGAGGGAGTATTTTAA  
TCGGACAAGGGAAGTCTTTTTCTTTGGGCAATGGCCAACAGGACTGAGAAGCCAGAGAG  
CTTGACCTGAGCCATCTCAGCCGTGAGAGTAACAGTCCTAGGAAATAGATGGGGGCTG  
GGGGTAAGGAAAT

Table 1

## Sequence 1263

CCCTTAGCGTGGTCGCGGCCGAGGTACTCTTTTTTTTTTTTTTTTTTTAGGGGTT  
TTCTTTGTAGAGACAGGGTCTCACTGTATTGCGCCAGGCTGGTCTTGAACATCATGGGCTC  
AAGTGATCCTCCTGCCTTGGGCTCATGAAGTGCTGGGATTACAGGTGTGAGTCACCATGA  
CTGACCTATATTTAATTTTTTAAAGATTAGACTGGTGTTAGCTGTAAATAGTTTGAAATA  
CCTCTCTGATAGGTGCTAGCTTATCGTTACTCTTAGTGCTTCTTGCAATTTGCAT

## Sequence 1264

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTGTGTTTAAGAGAAATTCCTAACTGGAT  
ATATGTGGCAGGCTGAAAGCACTGTGAGTTGAAGTCAAGGGGAGAGGTCCAGGCGCAGTG  
GCTCATGCCTGTAATCCAGCGCTTTGGGAGGCCAGGCGGGAGGGTTGCTTGAGGCCAG  
AAGTTTGAGACCAACTTGGCAACATAGCAAGACCTCGTCTCTACAAAAGATCNNAANT  
NAATANTAATNTAAATTAAGTTCCTTTGGGCCGNNACCACNCTAAAGGGCGNAANTTTC  
CAGCCACCACTGGCCGGC

## Sequence 1265

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTATTGTTAAAGTGAGTCAGATAAATCTTC  
AATTCCTGGCTATTTGGGCAATTGAATCATCATGGACTGTATAATGCAATCAGATTATTT  
TGTTTCTAGACATCCTTGAATTACACCAAAGAATGAAATTTAGTTGTGGTTAAATTAT  
TTATTTATTTTCATGCATTCATTTTATTTCCCTTAAGGTCTGGATGAGACTTCTTTGGGA  
GCCTCTAAAAAATTTTCACTGGGGGCCACGTGGGGTCATTAGAAGCCAGAAGCTCN  
CTCCAGGGCTCCTTCCCAAGTGCCCTANAAGGGTGCTTNTAGGGAAACATTAGGATCCCA  
GCCAGGGGGCT

## Sequence 1266

CCCTTAGCGGCCGCCCGGGCAGGTACTCAACACTGATTTGAGAAGAAAAGTGATTTGC  
TTACCTGTGATTTTGAGACCTATATAGTGAAGGTTTGTGCACTTTTTAGTTTCCTCAA  
ACATGCAGAAGTAATGAGGTTTGACAGAGACATGAGACTATAAGATGTCTGTCAATGCTG  
CCAACCATGGAAAAGATGTTAAGATGTCCAGCTGCCCATAAAATCATATTTTCAAAGTGT  
GAGACACGAAGAATATCTTCTCTTATTTGGAAATATGCTGAAGGATAGGAATAAAGAAA  
AGGATTNCAGTAAAATGGGAGNC

## Sequence 1267

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTATTTTTTTTTNTTTTTTGGNTTCTGTAA  
ACTNTNATTTTACACTTATGGGCCACTTGCCAACCTCAGGGGNCCTTGGCTTCTTGACTCA  
TTTTCTACAAGGTTTACTTTGGTTGTAAAAGATGTAGTTAANAGGGGTANGAANAATTT  
NNGGAATNTATTTTNCCTTGGCTTNGGTNAAAAACCTCAACAAGTTTACCTTTNCCCAG  
TTCCCAATTAATATTAANAANTTNGGNCAACCGTTTTGTTACNTCNCCTTTTCNAGG  
AAAAAATTCCTTATTTGGNACCTTNTTCTTGGNAAATTTTTNANTAAAAANAANTG  
GGGCCATTTTTNTTTT

## Sequence 1268

CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGGGGCTTTGCAGATGTGATTAAGCAA  
GGACCCCAGATGGGGAGATTATTTGAATTACCTAGGTGGGACTCCACGTCATCACAAGG  
GTCAGAATCCAAAGAGATGTGAGAATGAAAAGCACAAGTGAGAGCAGTGGGATAGCCAAA  
TTTTAAGAGGGTTGTGAGCCAGAGAATATAGCCGCCCTNTAGAAGCTGCAGAAGGCCGGG  
GTGGACAGAGTCTCCCTGCGAACCTCCAGAAGCAGCACAACCCTGCCCACTCACGGTAGA  
CTCTCGATCTCCGGGCTGTAGAAATAATACATCTGTGCTATTTTAAG

## Sequence 1269

CCCTTAGCGTGGTCGCGGCCGAGGTACATTTAAAAGGTGATGCTAATACTTTAAATGTT  
TAAGANATAAGATTTAAAAGCATTTGTAAATTGTATACTTGCANANGTCCGTNCTACAT  
TGGCATTTTGGAACAAGGNACATTAATTGGTT

## Sequence 1270

CCCTTAGCGTGGTCGCGGCCGAGGTACTGCAAGCAACAGTTACTGCGACGTGAGCAGCAA  
CAGAAGTATNCTCTCCTGAAATTATTANGCAGTACTTGNATCAACCACTCCGCCGTTACC  
CATACCAAAGCCGTCGCCTTGGNCACCG

## Sequence 1271

CCCTTAGCGTGGTCGCGGCCGAGGTACAATTTTTAGTCAAGGGATTGTTTGATACTCTTT  
AAGTTCACTGCCAGGCCTACCACTTATCTCTGTCCAGGAGGAGAGTTCCTTGTAATGAG  
AGGTTTTTAAGACGTCTTTGTTCTGGGATGAATCATAGGGAATGACTGCCTTTGGAGCT  
CAGGATATTAACTGAGTGGTGTCAAATATTNCCAGGATCAATTGACAATGCCATGTGT

Table 1

ACCTGCCCGGGCGGTCGNTCNAAGGGCNGAATTTCCANCACACTGNCGAGNCGTTACC  
TANTTGGATTCCCGAGTCTTCTGNTTCCAAAANTCTTTTGGCGGTTA

Sequence 1272

CCCTTAGCGTGGTCGCGGCCGAGGTACTCAATGTCACATTNNCATAGGAAAGGTTATATA  
TACACTATACACTTCAACCTTGAAATGTGGACCCAAAAACATTCTATTTTTCAGTAATC  
NATTGAATTTNGGTGAGGGGTCCNACACCCTCAAATCCTAANTTTATCACANAAAAAGCC  
CNTNCTTGGCTGCCAAGCGCTGGCNGATGAACCTTGTNTTGTGCTGNANCTCTTATGANTT  
GGATNCCANAGTNTCNTGATGATCCTNTTCAATGTTTANGAGCATNTGACCNNGCATGNT  
GTAGNGGANTGACTTTC

Sequence 1273

CCCTTTCGAGCGCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTATAAAAAACNTTNAATTAATAAAAA  
ACTCAAAAAAAAAAANAATGAGCATTTTAAAAAANGGAAANANTTNNAANNNNNNNNNG  
GNAAAAAAAAAAAAAAAAANNGNAAAAANNAANTNNNGNATTGNTTTTTTGGCAANTNANC  
AANATCNTCCCCCTGAAAAAAAAAAGTTTTTTTTTTT

Sequence 1274

CCCTTAGCGTGGTCGCGGCCGAGGTACTACAAACAACAGAAATTTATTGTCTCTCAGTTC  
TGGAGGCTAGAAGTCCAGAATAAGGTATTAGTAGGTTTGGTTCTTTCTGAGGGCTGTGA  
AGCAGAATCTGTTCCATCCCTCTCTTCTTCTTCATCTGTTCTATGTCTGTCTTTGTTT  
AAATTTCCCTTTATATAAGGATAGCAATCATATTGGATTAGGCCAGTCTTAATGACCA  
GATCTTAACATTTGCAAAGGCCCTATTTCTCACTAAGGTGCTATTTACAGGTATAAAGGG  
TGTAGACTTTAACATCTTTTTGGGGGAAGACACAGTTCAATCCGTAACAAGATGTTAAGT  
CCTTTCCTCTCCTAAA

Sequence 1275

ATAGGGGCCGGAATTTGGGGGCCCTCTAAGAATGCCATGGCTTCCGAGGCCGGGCCCGG  
CCAAGTGGTGAATGGGGATATTCTTGCCAAGAAATTC

Sequence 1276

CCCTTTCGAGCGCGCCCGGGCAGGTACTATAAAGGTTGAGTAAAAACAGGAAAGCGT  
GCTATAAGTTCAAATCTGTTGTATTACCCTAAATTAAGATAAACCAACCTGAATTATAGT  
AGATTTCTCAATAGATGAGGAACCTGAAAAATACTATGTAAATATCTTCCAAAATGCTTT  
TTATACTTTTTTATTTGTAATTTGGTCTATCTAAATGTTTCGTTAGCTTAACTTAATGG  
GCGTTATTGGATTATGACTAAGCTTTCCTCAGTATTGTAATGCTTGAAATATTTGAA  
AGAAAAATGTTGTTTTTAGTTGAAACTGGTATATATAATTCAGTGCTTGGCAGGTTA  
GTATATTTTTATGCATTTTT

Sequence 1277

GTACCAACACAATTGTTAATTTCTCACAGGCTNAAGGCATTCTGGGAAGCTATACAGGG  
GACAGGAAGCATTTTTTGGGAGCCTAAGGGGAGCCAGTTTGAAGAGACAGCATTCTCCT  
GGCTAGGACAGGTGGNGGNGGTGGCCGGGTTNAGGNTCTNCAAGGGACCCNTGCGAGT  
GCCGGGGCCCTGTTTATTCTGAGCAC

Sequence 1278

CCCTTAGCGTGGTCGCGGCCGAGGTACTAAACTAAACTGAGCAGTTTAAAAACATTCAT  
TTAAAGGGATATCTAATGTGTTTATTATTAACATAAATAATGTTTTATGAAAAATGTAA  
CTTAGTTTTCCAAAACAAAAATGTTTAGGGCAAGAGTAACATTATTTACATTATTGCAT  
CTCAGTGAAAAATAAATGGCAACAAATTTCTATATCTGCTTCTGCAGTTAATCTGTTCA  
TTTTGTTTTGGTTGAAGTATATGAAGGAAATCTGTCCTCACACAGTTGTGTAGTGGAAAA  
AGGGGGACTATTGTAACAGGGCTGTGCACATAATTGTGGATGATTTCTTTGATACAACA  
ACAAACTTGGTGGAT

Sequence 1279

CCCTTCGAGCGGCCGCCCGGGCAGGTACAATGTGATTTATCAATTAATTAATTTGAATT  
CCATGGAATGAAATATAAGTCAACAAGTATGACAGTTTCGCTTTGTTTATTATGGAAGAA  
TCATTAATAATTTGATAATTAATGGTCCCTGAATGGTTAGCCATGTTCTCCGCATTTAAA  
TAAATAGTATAAACATAAATGAAAAATTTAAAGTAATTTCAACGTGATAGAGACCGCTTA  
TTTTAGTTGAGGTAGAGTTCCAACCTAATGGTAATTAAGATTCCAGATCCGAAAGATGT  
CATGTGAATATTGCTCTGAAAAACCAAAATTAAGCTTTCTTAAAG

Sequence 1280

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTNGAAGGCA

Table 1

ATTTAATAAGATTTGAGCATAGATATTAACTTAGCATGGACAGAGAACTTATTTNTTG  
GGGGACTGGCATAAGTGAAAGAACAGAATCAGTNTGACCAGAGAGAGCATAAAACTTT  
Sequence 1281  
CCCTTTCGAGCGGCCCGCCCGGGCAGGTACCTCTGACTTTCTAACAAATTACCATAAAGGA  
AGAATATTTTTCGTCTACTATTGTTAGAACACCTTAGAACCATCAAAAAATAATTACAT  
GGCTAATAGAAAAAAGAGCAGTTTTAAATATGTTTTATGTAACCTATTTTCATTGTT  
TTTCATTTTGTGTTGCCGAATAGTAGTTGTTCTAAGTAAATACAGGTCTCAATTTCACT  
ATGAATAAAAAAAAAAAAAANGAAAAAAAAAAAAAGTACCTTGGCCGCCGACCACGCTAA  
GGG

Sequence 1282  
CCCTTAGCGTGGTCGCGGCCGAGGTACTCTTTCTATTTTCTTAATCAATACAGCTAAAG  
GTTTGTCAATATTGTTGATCTTTTTAAAGAACTAAAAATTTGTTTTGTTGATTTCCTTTA  
TTTTTTTTTCTGTTTTATTTATCACCACCTCTTATTTTAGTATTTCTTCCTTCTGGTA  
GCTTTGGGTTTAGTTTGTCTTAAGTTCCTTAGGTGTAAAGTTACGCTGTTGAAATGAGA  
TCTTCTATTTAATGTATGCATTTATAGCTCTAAATTTTCTCTTAGCACTGGTTTCACTG  
CATGCTCTAAGTTTTGATA

Sequence 1283  
CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTCTTTTA  
ATTA AAAANCNGGANTTGGTNGGTTNCCCAAGCTNGNNTTGAANNCTGGGNTTAAACAA  
NNANCTNGTTTGGCCNNCCAAANNCTNGGATTANNNGNNTGAACCANNACCCANNT  
TTTAAANCNNAATNTTTTTNNGGNAANNTNANANANCNNCCCAAGGANTTAAANGGNN  
GGGAAAAACNTGGANNTTGGNTTTTTTTT

Sequence 1284  
CCCTTAGCGTGGTCGCGGCCGAGGTACTCACAAATAACAAGACAAATTTGACCTGTTCAA  
TAAATGAGAAATGAAGTGGCTAAAAATGTTTAAATGGAAGTGGAAACAGTCGCTCTCTTT  
GTACTTGGTCTCTACCTCAGATAATCTTCTTTGAGCTTTTGAGTAGCTTCTCCTTTTTTC  
ACTTAGTTCTACATGTATTCTATGCAGTGAGGTTTTCAGATGCAGACAATCTTGACTGAAG  
CTGTTGACAATCTAGGTCTTTTGATGAAGGGTGCCTGAATATTCTTTTACTCACAGA  
TTCTTCATTATGTTTCTCCT

Sequence 1285  
CCCTTANNTTGGTCGCGGCCCGAGGTACTTTTTAATCTTATTATTAACTAACCCCTGTG  
GTGGTGTGGCTACATCTTTGAGTTTAGAAAAAGAGATAAAGAATTGCTCATATCTTCCC  
AAATGTGTAGTATAAAAAGAATGCTGCTGCTGTTGTTTTGTAGAATATGGAAGTCCC  
TGCAGTAAGTAGGCAACATGCTACCTTCTATTCAACACAGCACTAGAACAAGGCAAGTG  
GGACCTTTGTGACACATGATTGATTTCTTAAAGTCATTGGCTCTGGAGAATCTGAGAC  
ACCTNCATCCACACCCACAGCTCANGTTAAGCTGCAAAAGTTACACATCTTCTTAGGCC  
ATACACCCACGTAGCATCTTCTCTAATGGTACCTGCCCGGGCGGCCGCTCGAAAGG

Sequence 1286  
CCCTTTCGAGCGGCCCGCCCGGGCAGGTACACAGGATGTGATCAACAAAGTTCTATTTTAC  
AGGAGTATGATCCTGTGATACCTTGCCGTAGGTTATGTAACATGATTGGAGCGCAACCA  
GCTGTTCTCTTGCACAGATCGAGAGTGAGGGGTATTTTGTGACATTACACAGCATCAGGA  
GCCTGGTGCCTCATCAGGTGTAAGTTCTTATAACCACTCTTGGCAAATTTATTAAAGACA  
GGAACACAGTCAATCTGTAATCATAAGTAGCTCTACGTTTACTTGAATTCACAATCCCT  
AACCCATCTGTCCCTGGCAGAAAGAAGGAAAGATGACATGCATGGACAGTGAACAGAAAG  
GGATGAAAGCCAGGATTCTGGGATGAACAGACAGTGGCAATTAGGATGTGAAGACAGGT  
CACAACTATTACTATGTCTAAAAACGACCAGAGCAGAGAGCCAGAAGAGAATAAGCCTG  
AAGTCACCTTCCACTNAAAAAGCAGCCAACTCCCTCAAAGGAGTAACCTTTAAACCTG  
GATCTAACCTGGAANGGGCTAAAAANTGGCTTGGTTCTGAGTTTTTTTT

Sequence 1287  
CCCTTAGCGTGGTCGCGGCCGAGGTACATTCCAGTTCTTTATCTGAATACAAGCGTTTTG  
CTTTATTTCCAGTTTCTTGGACCAGAACAAATAAAATACATAAGACATCGTTTCTATATG  
GTCATATACTATATAGAATAAAGAATTGTTATGTAAATTATTAAATGAGTATACAGACCT  
TTACATAAAAACTAAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT

Sequence 1288  
CCCTTAGCGTGGTCGCGGCCGAGGTACCTTGTGCAGACCGCCTACCTCATCCTGTGACTT  
AGAATGCCTAACCTCCTGGGAATACAGACCAGTAGGTCTCAGCCTATTTTACCCAGCCC

Table 1

TTGCTACATTCAAGAAGGAATCACTCTGGTTCTAATGCCTCCGACAGAATGGTCAGATTC  
TCAGACTCTAAAGCAAAGAAGACTATGTTCAAGTGACAGCAAGACTGTTGAAGAAAAATAA  
ACTCGAATGGCCTTGAGGAGCTATTATCAATAAAAAACAGTATAACTTATAATTATCTGTT  
GTGTTACAATGAAGTATATCATCACTGC  
Sequence 1289  
CCCTTTGAGCGGCCCGCCCGGGCAGGTACTAAGGTTGTTAGCCCTCTGCTGGAAGAGAGT  
GTATTAGTCCATTTTCACTGCTGATAAAGACATACCCGAGACTGGGTAATTGAGAAAA  
AGAGGTTTAAATGGACTCATAGTTCATGTGGCTGGGGAGGCCTCACAAATCATGGTGGAAG  
GTGAAAGGCACATCTTACATGTTGGCAGGCAAGAGAGAAATGAGAGCCAAGCAAAAGGGG  
AAACCCCTTATGAAATCATCAGATCTCGTTAGACTTATCCACTACCACAAGAAGAGTGTG  
GGGAAAGCACCTCCATGATTCA  
Sequence 1290  
CCCTTTGAGCGGCCCGCCCGGGCAGGTACATAGGCTCTGCCTATCTCTGTGGCATGGATCC  
TACATCCACAACCTACACATTATTTATTTATTTTGGCAATCCCAATCCCCAGAA  
ATGGTCCTCACCTCATTGACATATGCAGGAAGAGCCAAGGGGGAAACAGCACTTGGA  
TGACTATGACAGACTAACACAAAGGACAAGAAATGGCTCTCATGGGATGTAGGTGGAAGG  
AGAGGCCTCTGGCATTGGCAGCTCCCTACCAGAGGTGTCTGCCCTCTGTTCTCTGGGG  
TAAGGGAGCCACTGGGCAGGAGTAGGCA  
Sequence 1291  
CCCTTTGAGCGGCCCGCCCGGGCAGGTACATAAGCTCTGCCTATCTNTGNGGNATGGATCC  
TACATCCACAACCTACACATTNTTATTTATTTATTTTNTGCAAATCCCAATCCCCAAAN  
ATGGGCCTCACCTCATTGACATATNC  
Sequence 1292  
CCCTTAGCGTGGTCGCGGCCGAGGTACATTTTTTCTCTTTTTTTTTTTTTTTTTTA  
ATTCTGAGATTTCCCAAGCTGTGGATTCTTCTACTCCTTAANAAAAAACTTTGGTTT  
TATTTAACATCTACACCTTTTNGTCAGTTGTGTTAGCGTGTCTTCCACCCCATTTTATTA  
TACTCTTAAAGATGTAATTGTTGTCATTTTGAACAGTTAAACATNTTNGGTATAAAA  
AGAACCCCAATGGTTTTAGTTATNGCTTTGTAAATTTTTATTTTTANTTTTACCTAAAN  
AACTTTCACTAATCAAATAAGGGAAAGAACTGTCTTTT  
Sequence 1293  
CCCTTAGCGTGGTCGCGGCCGAGGTACTACCTGTTTAAGGACATACCAGAAAAAAGTAT  
TGATTTTTATCCTATGCTAAACAGTGCTGTGATAACTTTTGTATCACTTGGAGAATGCTC  
CTGAAATTATGCAACACTACTAGATAACCCCTGGATCAAAGAGGAAATCAAAGGGAAAT  
TTCACACTGTATTGTAAGAGAGGAGACTTTTATGCCAAAATACAGTAAGTCTTTTAGTC  
AGATAAAATTAATAATCTTAAATTCCATTGTTAAAGAAGAAAGACAATTAAGAAATC  
TGACACTAATCAGAAGAAATTAGGAAAACGAATAAGTAAAAGAATCTGAAAAGGAGAAAT  
AAAA  
Sequence 1294  
CCCTTAGCGTGGTCGCGGCCGAGGTACAGTGGGAGAGTGAGGTGGGAGAAGAAGAGTGTG  
TGGTTTTGTGTGCTNACATGCTTCTTGGCATGAGAATGTTAATTTGGAANTAGTGGN  
CNCTCAGAGCCNTCTACAAAGGCAGTGCCAAAGCTTCNTTACCGTGACATTTGTTNAGT  
ANTAACTTTGCCTNNGGCACGCGNCNTCCTGNAAANTGNTTTGTTTTGGGCCATTTCT  
TGCTGAGNTNCCCTTTANNGGNTTGTNCCTTCGNNTTTTCATTTCNANCTAATTTNGCC  
TCCCCATATNGAACAAANTTGGTAATTTCAACNATGGGNGNGNCCAACTTTGGCTTTTT  
CTTTTTTNGACTATGNCCCCCTAANTAACNACCCTTGGGATNCAANTTNGTNAANTT  
TTCTTTTCTTTTCTNNNGGNGGGGNGCCTTNCCTTNNCAANNNGGAAAACCCCCAAA  
ATTTNTTTTTNGGCCNANCCNTCCAANCAATTTTTT  
Sequence 1295  
CCCTTCGAGCGGCCCGCCCGGGCAGGTACNGCGGGCTCTCTCCATGGGTCTGTGTTCCAGA  
AAGCTATGACTCTTTAATGCATCTCTTAGTTTTTCTTATTCTTTATTCTTAGTATC  
ACAGTCCATGATATCCACTGTCTTGGGGCGCCCAATTCATTGTGCAAAAAGCATTATAA  
TCAAAATACCCCTATTTGTTATNTTTTTAAAAAGTAAAGTGGGGGATG  
Sequence 1296  
CCCTTCGAGCGGCCCGCCCGGGCANGTACAATGCACATGCCGAANGACCTTANTNTTGA  
TGTGATGAAATGTTTTCTATGCCTGGAATAAATGCCTTNCCTTTGGGNTGTAATATCTTAA  
ATACGTATTGCTCCTCNATCTGTGAGTTATTTAATTTTTTCTCTGAAGNAGCTNTGATT

Table 1

TCTGGGCTTTCTAGTGTGATCATCTA

Sequence 1297

CCCTTAGCGTGGTCGCGGCCGAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATGTT  
TAAGATATAGCATTAAAAAGCATTGTAAATTGTATACTGCAGTGTCTACATGGCA

Sequence 1298

CCCTTCGGCCGCCCCGGGCAGGTACGCGGGCTTCCTACTTCCACCAACCCCTCTTNGCAGA  
GACTGCTCCATTCCATTAAAAAGNGAAGGTTCAACTGGANACCTNCAAAGTTGGCTGGGC  
CT

Sequence 1299

CCCTTAGCGTGGTCGCGGCCGAGGTACTAAACGTGATGAAAAATATGCCAGACCTGGCCG  
GGCCTGGTGGCTCAACGCCTGTAATCCCTGCACCTTTGGGAGGCCGAGGCAGGTGGATCAC  
GAGATCAGGAGATTGAGACCATCCCGGCTAACACAGTGAAACCCCTGTCTCTACTAAAAAT  
ACAGAAAAANAANAAAAAAGAAAAANGGTCCTTTGTNTACTGCAGTTGTCNTNTAC  
ATGGCATTGGACAGGACATAATTGTAAACATAAAAAAGTGCAATTGGTTACACTTACATN  
TGATAGTGAATTGGCAAACGTGACCAATTTTTT

Sequence 1300

CCCTTCGAGCGGCCGCCCCGGGCAGGTACATACAAAAAATCATTAACATATATTTCAA  
GAGTAGGAAATGGGAACCTGGTGTTAAAACCTTTATAACATATGTCACTGNCCTTAAGGGAC  
AGTGTTTTAAAAACGCATACCTCGGCCGGCGCGGTNGGCTTCATGCCTGTAATCC

Sequence 1301

CCCTTTGAGCGGCCGCCCCGGGCAGGTACATTTAAAAGGTGATGCTAATACTTTAAAATG  
TNTAAGATATAGATTTAAAAAGCATTNNGNAAATTGTATACTGCAGTGTCTGCTACATGGC  
ATTGGACAGGACATAA

Sequence 1302

CCCTTGAGCGGCCGCCCCGGGCAGGTAGGGCGCGCAGCAGCACTCGCCAAAGTCGTCGGA  
G

ATGCGGCAGGCAAGGCACAGAGGAGCAAAAGTGCCGCACAGACAGACAGGCATGTCGTTG  
CAGCAGTCCGTGAGACCTGTGTGCCAGTCACTGAGCTGGGTCTGGTAGCAGCTGGTGGTG  
GCGCACTGGGGCTGACTGGTCACAGGGTAGGACATAGCTTTGCCTTTCACGTTGTCGTGC  
ATCTCAAACCTGCATCTTGCTGGCCCTGAGGAGGTGGCGTTGGGGACGGCAGAAAGTGGCCT  
GTGGCAACAGTGGCAGNAGTCTTGTCGAAGGGGAC

Sequence 1303

CCCTTAGCGTGGTCGCGGCCGAGGTACTCAAAAAACAAACAATGGAGTATGTCCTGTTG  
GTAGAAAAATTTGAGCAACAAAATAAATAAAGTAGTATAGGATTATGACCCCAAGTATAA  
AATAACCATCTATGAGTCCATACATATATAAATAAATGATTGAATAAATATATAAACGGA  
GAAGAAAAAAGACTATCCATAGCAGAAGAATTCCAAATAATTTTATAGACAGCTCCCT  
TTAAGAAAAACAGACCTACTGAGTGTGGTCTACAATTAATGCTCGCGTACCTGCCCGGGCG  
GCCGCTCGAAAGGGCCGAATTCCAGCACACTGGCG

Sequence 1304

CCCTTAGCGTGGTCGCGGCCGAGGTACTGTGATTAAGCCAAACTTCAGCAAAAAAGGAAG  
TGCTGCATTGNAGCAGTATTGAAAGTTATGTAGGTGGATTTTTAAAAAATATTACAGCC  
TAAATTTTCTTAGCAAAAGTCAAATGAGTAACAACACACAGTTTGAAACATTTGNAGAG  
GAGAAAACAAATATCTGACAAGAGTACCTGCCCGGGCGGCCGCTCNAAAGGGCGAAT

Sequence 1305

CCCTTTGAGCGGCCGCCCCGGGCAGGTACACTGAAAACCTGGACATTATAACATTAATTTT  
ATTAGCTCTCTGGGAGTGAGCTACATGATGTTGTGCACTGAAAATTACCCAAATGTTCTC  
GCCTTCTCTTTCTGGATGAGCTTCAGAAGGAGTTCATTACTACTTATAACATGATGAAG  
ACAAATACTGCTGTCAGACCATACTGTTTCATTGAATTTGATAACTTCATTGAGAGGACC  
AAGCAGCGATATAATAATCCAGGTCTCTTCAACAAAGATAAATCTTTCTGACATGCAG  
ACGGAAATCAAGCTGAGGCCTCCTTATCAAATTTCCATGTGCGAACTGGGGTCAGCCAAAT  
GGAGTCACATCAGCATTTTCTGTTGACTGTAAAGGTGCTGGTAAGATTTCTTCTGCTCAC  
CAGCGACTGGAACCAGCAACTCTGTCAAGGATTGNAGGATTTATCCTTAATCTTTTATGT  
GGAGCTCTGAAATTTAATTCGAGGCTTTTCATGCCTATANAAAGGCTTCTGCCAANTGATG  
NGAATGATTTTAATTACCTCATTGGCATTTTTTCTTGGGAACAAGCAGCCCTGGCCTTT  
ACCCAGGGTANGTTTTCTTTCATTTTTNAAAGAAACACCTTTACCATTATTGNTTNCCTC



Table 1

AAGGGATTAAGTCTAAACAATTGGGCCTTTTTAAAAATAANTTATTTAAAAACCCCCAAAA  
AAA

Sequence 1306

CCCTTAGCGTGGTCGCGGCCGAGGTACACCAGTGGAGGACACGAATTCTATACCTGTAGG  
ACAGTGCATGGAGAAAAACCTAATGCCGGCTGTCCCTCAGAAAGCCTGGGGCCAGTGCCT  
GGGCTGTACCTCATCCATGCTATCAGTCTACTTTCCCTCTTAGCCACAGAAAGCCCTGA  
AGAAAGTGGCATAAAAAATGACCTGGCTGGGCACAGTGGCTCATGCCATTATCCCGGCAC  
TTTGGGAGGCCGAGGTGGGCAGATCACCTGAGGTCAGGAGTTCAAGACCACTCTGGCCAA  
CATGATGAAACCCGGTCTCTACTAAAAATACAAAAATTAGCCGGGCATGATGGTGGGCGC  
CTGTAAACCCAGCTACTCANGAAAAGTGAGGCANGANAATCTTCTGAACCCAGGANACG  
GAAGTTTGCAANTGAGCTGAGATCGCATATTGGACTTCCAACCTTCAAGCGAGAACCAG  
CGGTTNGAATTTCCCTTTTGTATGAACTGGTCTTTTTAATGTTCTTTAACCCATTCTTC  
TTTTCAAATTGGTTTCTATTGGGTTTTTTTTTCTTTTTTGGANGTTGGGACTTTTTT  
AATCTACCTTGG

Sequence 1307

CCCTTAGCGTGGTCGCGGCCGAGGTACCC ITGTTACAAATATACCATCATCATCAGGTCT  
GAATGGGTTTCTCTACCCCCGACACCACCTGATATGCTAAATCCAAGTTCTGGATCCTT  
TTCAACCCCTCACTCGAATCTCTTGTGTTTGCAGTTCATGGCCTTGTCTAGGAGAACATG  
GGGCTGTGTATATGGAGACTGGTGGGCCACTTTCAGCATCAAGTAATCAATTAGTTGTC  
TCTAGAGGGATGCCTTGCCACAGATGCCTGAGGGGGGTGATGTATTTGACTATAATTTGC  
CTGAGGCCTGAGAGGCTGGCCCATCTGTCCATTACTCAAAGGCATCTAAGAAAAACATGA  
AGTATCTTAAATGACCAATAATAATGTCTTATTTCAAATATTGGATTCTTCTTGGAG  
CATTACAAAAGCACTAGAGTTTTACATTCTAATTAAGTCAAACAATACCATGCCACTTA  
CTATTTTTCTATAATTTTAAACCTTAAAGAAATAAGCTATTAATGGCTTAATTCTAAAG  
TTCTGAGTGCTTGGTGGTACACTCACTTTTTTAAGCTT

Sequence 1308

TTTTTCGCCCTTNTTNTGGNCGCGGCCGAGGTACTTTGTGNTTTTTTTTTTTTTTTTTTG  
GGNCACAGGANTCCTGACTGGGAAAACCTGAGCTACAAAAGCAAGATTTTACTGAAATT  
AATTATTTACAGACAGACTGGANATCACAGGTCAGTGAAAAGTCATTTCACTGAACAGA  
GCTAAGGATCTAGGATAAATTGTAATAACAGCAAAGGGAATTTTTTAAAGAAGAGCAA  
AACTCAAAGTCAAAACATCACATACTTTATGCCTTTGGAAAAGAAATAATAAAAAATAGA  
AATTTGCCNCCATCAAAATTATAATACTATTTCTGAATTCAGGGAAAAGACAGGNGNAAT  
TAAAGGGAAATTAATTAATATATCAAATNTCTACCCTATTATNAACATACCAAGAAAATG  
AAACAAAAAATTAATTAAAAACAAATNTTTGGGCTCCACCCGAAAAAGAAAATNCCTCC  
AGGNGGCACACACACACNNACCCACACACGCCCACAACAAAAAAC

Sequence 1309

CCCTTTGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTNTCTTTCTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAAANAACCNNANCCNTTTTTT  
TTTTNACCNAAGGGGTTNNNCTNANTANNCNACCCCNNTTNAANNACNNNTTNAAAA  
NNNTTNTTANAAAAANNATTNNACCCCNNTNTNAAAAA

Sequence 1310

CCCTTTCCAGCGGCCNCCNGGCAGGNACAAACCCTNGTAGGNTAATCCANCTCTAATTG  
ANNNGGGAGCNNACCTTCTGCTTCCTTTAATCCCAGATCNGAGGCCAAGGG

Sequence 1311

CCCTTTGAGCGGCCGCCCGGGCAGGTACAACTAAAATTATGGGAGAAGAAACTATGA  
GTGAAACGATGAGAAAAACCTAATGCATGATGTAGAAGTGAAGTGGTGAATAGCAGAGC  
ACTGGAGGGAAGGGCCACAAACTTTCACCCCAAGGTCTAGAATCATTCTAGAATCATC  
CTACAAGCCTAGTTTTCATGAGATTCAGCCCTATTTTATTTCTTGCTCTTGGAATTATAT  
GAAATTACGAATTTCTGTGTGTTGTCAGCTGTAATAGAATCCCTGGAATTTTATTTACTT  
TTAATTTTGTATTTATTTATTTATACTTATGTGCCATCTTCTCATGAAAAGAGGCAGTATG  
TTAAAAGTTTGAGTTTCTGATGTAGATAAATAAGCTAAAGAAGGCAGGGTGAA  
GTGTGATATAGAGAATTTCCAGAGCAGGGTATTGTAAGTGTAAAGTATTTAGTCCAAG  
TTCCCTCTCCCAACACATTTTACACTAGAATAAGATTGAAAGGCCAGATGTGGTGGCTCA  
CGCCTGAAATCCTTTTGGGAGG

Sequence 1312

CGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTTCGAGCGGCCGCCCGGGCAGGTAC

Table 1

AGTAAGCCAAGATTGTGCCACTGCACTCCAGCCTGGTGACAGAGCGAGACTCTGTCTAAA  
AAAAATAAATAAATAATAGAGGTGAATGTCTGCATTAGGATCAAGACAAGAAGAAGACAG  
ACAATCACTTTTGAATTCTGAGACTACCTCCAAGAATCATCCACGGAAGGATGTCAGCCA  
TTTAACCAGGGCTACGGATCAAAAAGGAAAAAATACAGTCAGTGGACAAGTAGAAGAGTC  
TCCTGAAAAATATCCGTATTTGAAAAGGCAGCAGGAGTTGATAGAAAACATAACTAAAAA  
AGTAGAAGACACTGTAAATTTGAATCTGGATCCTATATAGCTTCTTCTCTGGGATCTAC  
TGAGGAGTGAAATCTAAATGAAGATTTAGCTTAGAAAAGCATGAAGATAGTATGTTCCAAT  
TTTAAATAAAAAATTATATTGTCTGAAAGACAATACAATTTTAGTACCTCGGCCCGCACCA  
CGCTAAGGG

Sequence 1313

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTGGNTNNTTTTT  
TTTAAAAAANGGCAATTTTA  
ANAAAAAATNNAAATTTGACNGGNNAATACCAAANGGAAAGTGNNTGANCCNCNNAAAA  
AAAAAAGGTTTTACNTTTTTCNAAATTTANNTNTTTANAAAAAANAAGTTTTAAAN  
TTNNGANTTTTAAACCNCTTTTNAACTGNAAAAATTTTTNAAANANCTTTACCCGAAN  
TTAATATAANCNAAAAATTTTNNTTTTTAAANTAFAAATTANCNACCCNAATTTAAN

Sequence 1314

CGCCCGGNCAGGTACCTNCTTAGAAACCTAGACTCCANAGAACTGTTTGACAACCACT  
GCAGTAGAACATAATATATCAAGATTNTAGGAGTGGGTTTCTTTTTTCATTTTACATGT  
TNTAGAATAACATGCATAATCAAAGCTAATAACTGTGTTTTCTTACTCTTTATTTG  
CCTCTAAAGACATCCACNCATAGNGGTGAAGTATTTTAAATGCGTTTTAAATAAAAGGC  
ATTGAAAAATATTAATAATTGNAGTFACTAAAAGTATTTCTCTTTGCGATTCTCTNATCT  
GTGTTTCCAGACCGGTTGGGAGGGGTGACAGATCAGAAGGCTCTGGTCAAGAGAATGAAA  
ATGAGGATGAGGAATAATAAACTCTTTTTGGCANGCACTTAAATGTTCTGAAATTTGTAT  
AAGACATTTATTATTTTTTTCTTTACAGAGCTTTANTGCAATTTTAAGGTTATGGTTT  
TTTGGGATTTTTCCCTTTTTTTTTGGGATAACCTAACATTGGGTTTTGGAATGATTGGG  
TNCCATGAAATTTGGGGAGATTGGTATTAACAANAACCTAGCAAAAATGGTTTTTAAAA  
CTTTTTTGCCCGTGTATTGAAGGAAGTGCTANNAAAATGCNAAAAGTGCCAATATTTTTT  
CCTA

Sequence 1315

CCCTTTGCGGCCCGCCCGGGCAGGTACATTTGGTGGAGTTTGAGACCAGCCTGGGCAACA  
CAGTGAGACCCTGTCTCTAAAAGCATTAAAGCATTAACTCCTCGCATTTTGATAGGGCTAT  
GTAGCTTTTAAGTAAGCAATGTTAGAATGAGTTGTAGAGTTTTATTTTTGTGAATATAGT  
GAGTGACAGATGGCAATTACATGAGGATATTTGAACGAAGGTACCTCGGCCCGCAGCACG  
CTAAGGG

Sequence 1316

CCCTTAGCGTGGTCGCGGCCCGAGGTACCAAAGACACTTATTATTCTAACATGCATCAAG  
TAAAGTAAACAAGGAGAGAGGCTGCGGTGTGTGGGTAGGGGATGCAGGAGAAGCTGTGT  
AAGGTAGTGGACAGCTGTGTGGCTCTGGGGATGAGACAGACTAGACCAGGCAAGTGCTTC  
AGGCAGGTGCCCCGTGCGGAGGCCTCTGGAGTTACTCATCTTGCAGCCTCGGGCTACTCA  
CCATCAGGGAGCCCCGCGTACCTGCCCGGGCGGCCGAAGGG

Sequence 1317

CCCTTTGAGCGGCCCGCCCGGGCAGGTACTNNCANGTTTTTTTTTTTTTTTTTTTTTTT  
TTTTTTTTTTTTTTTTTTTTTTTACNCTGAGTCAAAAAATNTTTTAATAGTTNCAAAT  
TTTTTTTTTTTTTTTTTTTTTACAAAATCANTTTAAANANCNGGNGATTTNNCCNTAATT  
ATCAAAATNTTTNTCTTGGGGTNTTGGCTAAGGGGGGCTNAAATAAAAAAAGGCCTT  
NGANTNTTGGNTCAAAAAATNTNNTAAAAANCCCCCTNTTGANNNTTGACATGCTTAC  
CCCTTATGAAAAANNCCCCTCNNTTAAAAAAA

Sequence 1318

CCCTTAGCGGCCCGCCCGGGCNGGTACTACTTTTGTTTTTTTTTTTTTTTGGATCAATAAG  
TNTATTTATGTTGNATCACACAATAGTTACACAAGCATTAAAAACACATGCNCACNTGT  
TTATTATACCATACATACAAACACACATACAACCTTAATTTACAAGCACATACAAGCAC  
ATACAAACATATAAACAACAACAACACTAATTNAACATACATACAATACTTACAGCTTA  
CGTTT

Sequence 1319

CCCTTAGCGTGGTCGCGGCCGANGTACATGAAAACATCAGTGTGACAGTTAATATTAAT

Table 1

GTCAACTTGATTGGATTGAAGGCTGTAAAGTCTTGTCTGGGTGTGTCAGTGAGGGCGT  
TGCTAGAGAAGACTAACATTTGANTCAGTGGACTGGGAGAGGAAGACCCACCCTCAATAT  
GGGTGGGCACCATCCACTCAGCTGCCAGCGAGGCTGGAACAAAACAGGAGGAAAAAGGTG  
GGATAGGTGACTTGCTGAGCTTCCAGCTTTCATCTTCTCCCCTGCTGGATGCCTCCTG  
CCCTTGACATCAGACGCCAGGTTCTTGGCCTTGGACTCTCAGACTTACACCANCGGTT  
TGCCGAGGGCTCTTGGGCCTTGGCCACAGACTGAAGGCTCTACAGTGTTGGCTTCCCTA  
CTTTGAGGCCTTGGACTCGGACTGGGCCACTACTAGCTTCTTNCCTCANCTTGCA  
GGTGGCCTATAATGGGCCTTACCTTGTGAACATGTGANCCAATTCTNCTTAACAAACGC  
CCCTTCATACATACATATATCCTATTAGTTCTGGCCCTCTGGAGAACCCTAATACACTCG  
ATAAAATTTCAATTAAATTTTTAAATA

Sequence 1320

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TT

Sequence 1321

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTCTT  
TT  
TTAAAAAANT

AAA

Sequence 1322

CCCTTAGCGTGGTCGCGGCCGAGGTACAGAGCTTCTTCTTATTAAGTGCCTAACTATAG  
GCAAACTTTGGTGTTCCCACTAAACACAAGAGCCTCACACAATTAGGAAAAAAATCA  
AAAGAAACAAGGAACTGAGAATGGAAGTTAGTGTAATCTCTGCATTGGGGAGTTGTC  
ATTAAGTCCAGAGCCCAGCATAGTTTCCATGGAGCCCTGAAGGGAGGGGACCTCCTGCCA  
CAAAGAGTTTCGTTCCAGACGATCGTAGCAGTGGGTGTAACAGCATTGGGGAAGAAGT  
CAATGTCTGAAAAAGTAATTCCTCCAGGTTTCATCATGATTCTACGGGAAGAGAAAGAGAC  
TACAATTAGCACCTCTAGCCATGGGGCAGGAAAAGGGGGAGGAAGGGACAGGAATGCTTT  
CTGGTCTCCTTAAGGGAACAGGGTCTACAGGTACCTGCCCGGGCGGNCGCTCGAAAGGG  
CGA

Sequence 1323

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TT  
TTTTTTTTTTTTTTTTTTTTAAAAAANAAAAAANNNAANTNAANGGNGNNAAAAAANTT  
TTNAAAAAANTTTNCCAATTNGGGTTTTTTAAGGGAAAAAANAAAAAANNNNA  
ATTNCCCNNAANTTTTNACCCCCCCCCNTTNAAAAAANAAAAAANTTTTTTNAAAAA

Sequence 1324

CCCTTAGCGTGGTCGCGGCCGAGGTACTTGGTTTAGTTATGGCTGTTTTTGCCCTCTAAC  
ACTTTTATTTTAAAAAGAAAATTAATAAGGTTATTGGGATCAAAGATATAGGCTTTTTG  
TTACTTTGAATGATTTTGTAAATCAGAATATGCACTTGTTATTTTCAGTTCTTATTTTA  
TAATTATTGGTAGAGTTCATCTAATTACCCTATAAATCCCTGGAGAAAGGTGGCCCCCAT  
ATACTTTATTTCTTGTTATATGTATAAAATCAGTAGGCAATGTAAAAATGTTTTTG  
TGAATTTATGTGAGTTATAATTCTAATTCTATGTCAATATTCACCTCAGATTACCACATG  
AAAGCTCAGTCACCAACTATGCCTCATACTGAAATACCCACTGATTAAATCAAGTTGACA  
ACCAGCTCCTATCGTACCTGCCCGGGCGGCCGCTAAGGG

Sequence 1325

AAGCAGGCATGGCATATAANCAAGCTTTTTTAAGGCTGAGTGACTTATGTGGCTGATAG  
AGGAAGGATAGGAGGAAAGGAAATATAGTGAAGGAACAGAGAGGAATAATAAGCTGG  
CAAGTCACAGACANCATAATTAGACTATCAAAGAANATTTGGAAGAAAGGCATGGACAG  
GAATAAAGACCTNCTTCTAAAGCAAGGTAGGGAGAGCAACTNNATGTAGATTGAANAGAA  
AAAGGAAAGAAAAATG

Sequence 1326

CCCTTTCGAGCGGCCGCCCGGGCAGGTACGCGGGATATTTATTTACAAAACACTTCATTA  
TTTATAAAGAATTTACTAACAGTTTATCTTATTTATACCCATACATCTGCTACTTTGGGA  
GGCCCTTTACATAGAAAACAGCATTCTTTTGCCAAATATGACCAAATTACTTTTATTTA

Table 1

TAATTTTTGATTTATGTTTCAGCTAGATCTAAAAAGCATCTGAAGGAATTTACAATGAAA  
GATACCTATGCAATAACATTTAGGATAATCTTTGACATTTTGAAAAATAAGAATTGAGG  
AAAAAAGTGATCTTTCAAGTAGATGCAAAGCATTATAATGACTGACACTTGTATCTAAC  
TCCAGTCTTACAGATAACTAAGGCAAAAAGCTAAATAAACAATATGTAACCTCTAACATT  
TGGTAAAAGGAAGTATACTGGTCTGTAGCAGAGACAAACTTTTTTTAGAATTGAAGTCT  
GAAACAAACAAAAAG

Sequence 1327

GCCGANGTACANGCCGNGGAAGAGACTCAAGTAGGAGCGCCTGCCCGAGCTGANACTAGA  
TGTGAACCTTTTACCATGAAAATGTTAAAAGATATAAAGGAAGGAGTTAAACAATATGGA  
TCCAACCTCCCTTATATAANAACATTATTACATTCCATTGCTCATGGAAATAGACTTACT  
CCTTATGACTGGGAAATTTTGGCCAAATCTTCCCTTTCATCCTCTCAGTATCTACAGTTT  
AAACCTGGTGGATTGATGGAGTACCTGCCCG

Sequence 1328

ATCTCCACCGCGGNGGCGGCCGCCCGGGCAGGTACCGGAAATCTGCAGATCGCCAAGTAA  
TTCCTATAATGATGCCCTCCTCACGTTTGTCTGGAACTGGTTGTGAACCTCCGAAGAGG  
CTTCGGGAAGGAAGACATAATNCCCAACGAGGAGGGACATNGGANCTCCACGACNTNNC  
TCCTATTACTCGGCACCCCTGCAAGCTCTCTTCATCTGGGCCATTCTTCAGAATAAGAA  
GGAACCTCTCCAAAGTCATTTTGGGAGCAGACCAGGGGCTGCACTTCTGGCAAGCCCCTGG  
GAAGCCAGCAAGCTTCTGAAAGACTCTGGCCAAAAGTTGAAGAACCGACATCAATGCTTG  
CTGGGGGGGAGGTCCCGAGGAAGCCTGGCCTAATGAGTACCCTCGGGCCGGCTCTAAGAAA  
CTANGTGGGAATCCCCCGGGGCTGGCAGGAAATTTTCGATNATTCAAAGCTTTATCGNAT  
ACCCCGNCCGACCTTCGGAGGGGGGGGGGCCCGGGTACCCAAGNCTTTTTGTTTCCCT  
TTTAGTTGAAGGGGNTAAATTGGCGCCGNCCTTTGGG

Sequence 1329

CCCTTTCGAGCGGCCGCCCGGGCAGGTACAGAAGGTTTGGGATTGAGCATCACTTCAGA  
GATGTAACAATAGGTGGCTCANCTCCAATCTATGTGAAAAACATTCTCCCCCGGGGGCG  
GCCATTGAGGATGGCCGACTTAAGGCAGGAGACAGACTTATAGAGGTAAATGGAGTANAT  
TTAGTGGGCAAATCCCAAGAGGAAGTTGTTTCGCTGTTGAGAANCACCAAGATGGAAGGA  
ACTGTGAGCCTTCTGGTCTTTTCGCCAGGAAGACGCCTTCCACCCAAGGGAAGCTGAAAGCA  
GAAGATGAGGATATTGTTCTTACACCTGATGGCACCAGGGAATTTCTGACATTTGAAGTC  
CCACTTAATGATTGAGGATCTGCAGGCCCTTGGTGTCAAGTGTCAAAGGTAACCCGGTCAA  
AAAGAAGAACCACGCAGATTTGGGGAATCTTTGTCAAGTCCATTATTATGGAGGGGGCA  
GCATTCTAAAGATGGAAGGCTTCG

Sequence 1330

CCCTTTCGAGCGGCCGCCCGGGCAGGTACCGTGTTTTGATAGTTGACTAACACTGACCTG  
TAATGGTCCTACACCTCTCCACTTACTTACACTATCTTAGGTAAATAAGACTTTTATTC  
CTAAGTGTGAATTTTACAGGAGGAGAAATCTGGCAGATAGATCCTCACCATCATCTGAA  
CACTCGAACTGGACTTCTTTTCTGAATTGACCAGTCAAAGAGAAAAGGAAAAAGAAAAAA  
ATATGACCCGGTTGAATTTAGAGTATCAAAGCATGGAGTATAGAATAATTTTGTTTTAA  
AAGAGGAGCTATTAAGTTGAATGGAAGGAAAAAGTTCTGGAAAATGCGTTCCATGTAAGG  
ATAGTAATCCCG

Sequence 1331

TATCTGCAGAATTCGCCCTTAGCGTGGNCGCGGCCCGAGGTACTGTTTGCATTAATAAAT  
TAAAGCTCCATAGGGTCTTCTCGTCTTGCTGTGTGTCATGCCCGCCTCTTACGGGCAGGTC  
AATTCAGTGGTTAAAAGTAAGAGACAGCTGAACCCCCCGGTACCACTGTAATCATTATT  
CCCAATGTTATGATTACATTGACAGATAACTCCAGTTTTGCTAACCTGAAGTATGTTAT  
GGCCATAATATGTTGTTGATTGATGGCAAANGGTGATGTGTGAGTTATGATCCTGTTTT  
CTCAAAATGGTGGTGGAGGCCGGGAGCTTATATGTTTATTTATGATGAATGANGATAGC  
AAGAGATGGCATATAATCACCAGACTGATCATATTGGATTCTTTG

Sequence 1332

CCCTTTCGAGCGGCCGCCCGGGCAGGTACTGGATTTTTGCAAGCCCTCTATTTAAATTC  
CCCAGAAATTAATAAGGAGGCTTTGGAGGGAGGAATGCCCTANACAATTTGTGGAGTGG  
GTTTGTGTTTGTGTTATGGAGATGGTCTTTAAAGTCTAAATTTGCCCGGTTTTATTTTGGC  
CAATTGAAGAGGGGCTGAAGTCAAGTGGGAGGGGATGGTTGTCAAGCCTACAGCTT  
TAGTTGAAACCAAGTCCATTCTGGGGCCAAGAAGCTTCCATTTTTAGCAAAGAGAGAAA  
GGGGAAAAATATACANACTCGTACCTCGGNCGNACCACGCTAAGGGGCGAATNCCAGCA

Table 1

CA

Sequence 1333

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACTTAATTCATTCTACTTTGTGTAACTATCTT  
TTTATGTGTAGGTCTCATCACCCCAACCAGACTATAAATTCCTTTGTCATTATTTAAATC  
CATGCATGGAACCTCCATAGACATCAACCAATCACCATAGACAAGCCTTAGAACATGTA  
TTACAGGAAAAATAGAGTAACACATACAACATAACAGAGGAAGAACANTTGACATTAAA  
ATAGAANAANAATTAACACTCTTTGGANTCTATAAANAATGNAAACAGAAAGAAAGAT  
NGAAGGATAATNCGTNAACCTAGAATATTCATTTGCCTGCTTCAACATTCAATAATTA

Sequence 1334

CCCTTAGCGTGGTCGCGGCCGAGGTACAAAGTTCAACAAAGTTTGTCTTGATTAAAAA  
AAAAAGAATGAATATCTAATGTATAAACAACCTCAACTTAGATTTCCAAAATCTTGCATT  
CATTCACATTTGTGCTTCTTCTACACAGCTGTCATTTACATTCCTAGGCTTGATTTCA  
CTATGTAAAAATGGGAATTTAATCTTTATAAATGAGGCATTTATGTAAAAA  
AAGTACCTGCCCGGGCGGCCGCTCGAAAGGGCGAATTCAGCACACTGGCG

Sequence 1335

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACAATAAACCAGCCAAAGAAAATAACCAGTTAG  
CACTTAAATAAGAATCTACCATGTAAAAACACAGTATGGGACACTACAAGGTAGTATTT  
ATATATTTTTTAAATGACTGAGCTACAGTACCTCGGCCGCGACCACGCTAAGGG

Sequence 1336

CCCTTAGCGGCCCGCCCGGGCAGGTACATCTATCTGACCCAGAGTTACCTTTTCTATCA  
TGCCCCCGTAGGATATTGCCTGGGGACACCTGACAACAGAAAGTCTAAGGTTTTCATCTA  
GGATTGGGAGTTACCCCAACACCAGCAGGATGCAGGAAAAAGTAACTGACCGGATGGTTG  
CCTCAATCTGTTGATTCTTCAGTGAGTTAGCTCAGATTTTGTCCAGGAACAGCTTTCAGA  
GCCAAAGATTACCGTATTGAACCTACCAAGGCATCTGGTGACTAGAAAACCTCGGAAG  
GTGGTCATAGCAGAAATGTTGGGAAAGTTCTCAGCATAATAAAGAGAAATTTTATTT  
CCTTCATTGATCCACTCCTACAGGGAAAAATAAATGGCANATGAACCCATGTATGTCANA  
CTCTGNAATAAACATCAGTGAGATCACAGTGTGAGNGAAATTCAGCCTGAATTA

Sequence 1337

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTGC AACCTT  
ATAAATAAAAAGTGGTATGCCAGTAAAGTTTCAATTTACATTTCTCTTCTGAATGAACT  
GAGCATTTTCCATTTTCTCCTANATTCTTAGGAAGCCTTTGTATCTGCGATATAAGTTA  
CTTTCTCCTTCTTTGTCATGTTGTTTAACTTTGCACTTTCTTTTAAACCTGCAGTAAA  
TTTTAAATCTTTTCATTGCTTCTGGTTTTCAAATCACATACAGAAAGAATCTCCCG  
AGTCANAGGGTGTGACCACAGACTGTTCTGGTGCTTCTATGGCTTCATCTTTTCACATTT  
GAATCTCTGACGTAGTTGGAATTTATTCTGGNCTATAAGGANCCGACTTTATTTAAGAA  
CAAAATTTTTTTNAACAAATGGTAACTTAACTCCTAAAGGCAGATTNT

Sequence 1338

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTGGTAAAAGATTTTAAGAAGGCATGGGAAT  
ATGAATTTCTCACCTAAGTTTAGAGGGTTAAAGGATTGTGTTAAGTGAGGAAGGAAAAA  
TCTAAAGGTTTAAACAAGTTGTGAAAGGTTTATAAAAAATTAATGTGTGCAACATATCN  
GGCTAAAGTTAAAGAGGTATTATTCTGTTTTCCATAAATTGAACATTGGAATAAAGTG  
CAACAGAGTTTTCTAAATCATTGNTCTGCTCTTTAACAAAAAANATTGTAAANGGTT  
ATAAAGGNTTATAANAATCTTACC

Sequence 1339

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACTAAAAATTTCCACTATCAGAAGATCCTGATT  
AAAATAAAGAAATACATAAACTCAACAGTAAGTCAATGTGATTATTTGTTTCATTTCA  
GAAGATCTATGGGTCCCACTGCCCGCCACACGTAGTCTCCTGGGTTCTCAACGAAGTGTG  
ACCAGCTCTTCTGAAGAGGTAGGGTGAATGGCGACTGTGTTGTCA

Sequence 1340

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTAACTATTTGTTTCTTCTACGATAATTGGT  
TTGTTGTGACTTTATCTACCTAGAGTAAATTTGGCAATTTGCATTTTCTCAAAATAGT  
TTTTGAATTTATTGTGTAATAATGCTCAAAATAGTCAATTTAAACAAATTTCTGTTTA  
CTATTTCCCTTTGTCAATTTAAATTTTGTATTTGTGCTTCTCCCGCTACCTGCCCGG  
GCGGCCGCTCGAAAGGG

Sequence 1341

Table 1

CCCTTTCGAGCGGCCGCCGGGCAGGTACTTTGACTATTTTTAGCAACAAATTACTTTT  
GACACACAGCACAAATTGATTTAACACTTCCAATTTTGAACTATTGGATAAATAATGATG  
GGATTTAAATAAAGCAATCCGATTCTACTATTACAGCATAGGGTCTCTTGAGTCCTCTT  
AGTAAAACTATTGTGACACTTCCTTCTTTCTCCAAATATTCCGGCCTGGAAAGACCTAAA  
TACAATGCAGGGATTGAATCAAATTCACACATTTTTTTCTACGGAAACAACAACCTTT  
CTTGCTTATATTTAACAAAACTAGTATAGATT

## Sequence 1342

GGTCCGTGGTGC GGGATCGAGATTGCGGGCTATGGCCGCCGAAGGTTTTTCGTCACTACT  
GGGATATCCCCGATGGCACCGATTGCCACCGCAAAGCCTACAGCACCACCAGTATTGCCA  
GCGTCGCTGGCCTGACCGNCGCTGCCTACAGAGTCACACTCAATCCTCCGGGCACCTTCC  
TTGAAGGAGTGGCTAAGGTTGGACAATACACGTTCACTGCAGCTGCTGTCNNGNCCCGTG  
TTTGGCCTCACCACCTGCATCAGCGCCCATGTCCCGCGAGAAGGCCGACGCCCCCTGAAC  
TACTTCCTNNGTGGCTGCTCCNGANGCCTGACTCTTGGAACACGCACGCACAACTACCN  
GGATTGGCGCCCGACGNCTGCGTTGTACTTTGGCATATCGGGNCTTCTGGTCAAGAATG  
GNCNCGNNTTGGAGGGCTGNNAGGGTGTGTTGNAAAAACCAATGTTNAGCCCTTGTG  
CCTTGCCGGGGACCTTTCAGCCCTGCAATAATGCGTCCCAGAAATAAATNNTGTGGTCT  
TGGTGTNNGAAAAA

## Sequence 1343

CGCCCCGCGTCCGAATGCAGTGAAAGTGACACTGCCTGACCTTCAAGACTAGATCATCAA  
AGGTGCTACAGCTTCTGCTTTGGCTTACCCTCTCTGTCGTGGGACACTCACCTTGGACC  
CAATCTCCACACTGTGAGAACTTCTATGCTACCTGGAGAGGCCCTTCTATAGATATTTCAG  
TCAACAGGCCCTAGTTAAAGTTTCAGCCAGCGTCAACCACCCAACATGTGGGTGAGTGAAC  
CCTCAAATGATTGCAGCTCCAGCCCTTTGAGTCTTCAGTTGCGGTCCCAGTCATTGAAAC  
AGAGTCAAGCTGCCCGCTGTGATTTATCTGAATTTCTGACCCACTGGGAGCATAATAA  
ATGATTGTTTTATGTTNAA

## Sequence 1344

GGGAGTCGACCCACGCGTCCGTCCAGAATTTCTAGAGTGGGTGGGCATGATTCCAGTCAA  
TGGGGGACCGCCCGTCTAAGCATGTGCAAAGGAGAGGAGGGAGATGAGGTCAATGTTT  
GTCATTGAGTCTTCTCTCANAATCAGCGAGCCCAGCTGTAGGGTGGGGGGCAGGCTCCCC  
CATGGCAGGGTCCCTTGGGGTACCCCTTTTCTCTCAGCCCCCTCCCTGTGTGCGGCCCTCTC  
CACCTCTNACCCACTCTCTCCTAATCCCCCTACTTAAGTAGGGCTTGCCCCACTTCAGAGG  
TTTTGGGGTTACAGGGTGCCTGNTGTTCCCTTTNCTGTNCCCAGGTCATTCCAAACCTT  
CTGTTATTTATTANGGCTGGNNGGAAGGGTTTTTCTTCTTTTCTTTGGAACCCTGCC  
CCTGTTCTTTACACTTGCCCCCATTCCTTAAANCTCATACAAGAATTTNCATCNATNNGG  
GGGCAATGGGNNTTGAAGCAAAAAGGGGCTTCNNTAACCCCGGGCAAGGCAAAANGCAA  
TTNGGTAAAANGGANGCACCTNCCCCCTTTTCTTNGNCCCCCTTNTTAANTTTTNAATA  
AAANAACCNNGGTTTTNTANTTTTTTAAAAAAAACCTGTTTTNTTANCANAAAAA  
AAAA

## Sequence 1345

TAGCANTTCAGCCCTGACCTGGGTCCGCAGCCTCCAGGGCAGGGGCTGGAGTGGGTNTCT  
CAAAATTAGTGCTAATGGTGGTCANAACCTGACTACNCAGACTCCGGCCCATC

## Sequence 1346

CCCTTAGCGTGGTCGCGGCCGAGGTACTAGATTGGGTGTGTGATTAAGAGAAAGACAGG  
AGTCAAAGATAGTTCAAAACTTTTGAACAGAACACTGGATGAATACTGTTTACTGAGAT  
GGGGAACACTTAGAGAAAAATGCATTTGGAAAGCAGAAATACGATCAAGACTTCCATTTT  
TGATACATTAAGCTTGGTATGTTTAATTCATAGCTATATAGAGGTATTAATTTGGCAGGA  
CAAAATCATAGCTAGAGATAAAAAATTTAGAGTTTACCAGTGTAAGATGATATTTGATGG  
CACAGGATGGACTTTCTTCTGGGATTTGAGTATACATAGAGGAAAGATGTGAGGATTGAG  
CACCAGGGGACTTCAACATTGACAGGCTCAACAGAGGAGAATCCCAAGAGGATGAGGT  
CCACCTTTAGGACCCGCCAAAGAAGACTTCCAGACAAAGTACCTGCCCGGGCGGCCGCT  
AAAGGGCG

## Sequence 1347

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTAACTATTTGTTTCTTCTACGATAATTGGT  
TTGTTGTGACTTTATCTACCTAGAGTAAATTTGGCAATTTGCATTTTCTCAAAATAGT  
TTTTGAATTTATTGTGTAATTTGCTCAAAATAGTCAATTTAAACAAATTTCTGTTTTA  
CTATTTCCCCCTTGTCAATTTAAATTTTGTATTTGTGCTTCTCCCGCGTACCTGCCCGG

Table 1

GCGGCCGCTCGAAAGGG

Sequence 1348

CCCTTAGCGTGGTCGCGGCCGAGGTACAAATTACTCTGTAATATTGCTTTCTATTAAG  
GGTGTGGTTTTTTTTTTGTTGTTTTTTTTTTTAGCTAGTCCAGTGGTCTTTTTGAT  
GTTGGTTCAGCTTAGTGGTTCTCAACCTGGAACAACCCGTANACCCACCTGGGGAGCTC  
TTAAAATTATCAAGTGCCTACCCACCTTCCAAGATTCTGATTTAAATCCTGTAGTGT  
TTAAGGCACCCAGGTGATTGTAATGTACCTGCCCGGGCGGCCGCTAAAGGG

Sequence 1349

CCCTTAGCGGCCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTGGGTTTTTTTT  
TT  
NAAAAAANGGNTAAANNAANTTTTTNTTNCNCCCNAAANGGGAANGGGGNTNAANTNN  
NAAANNTTTANNTTTTGGNAAAAAAAAAAAAATNNNANTTTNAAAAANCCCGGGGGNGN  
TTTTTTTTTAAAAAANNNNTAAANANNTTTTTTTNGGGGGGGTTAAANNTTTTTTTT  
NNGGGNCAAAAAAANNNNCCCNNTTTNNCCNNTTTNAAAAANGGAAGGGGGNNNNN  
NTTTANNTNNCNNTTTNAAAAAANNTNNANGGNNTNNNNATTTTTTTAAANNNNAAN  
NNNNNNNGGAAANNTTTTAAAAAGGGAAGAAAAAANGGTTTTTTTTTTNNNGNGGC  
CAACCCNNGGTGGNGGAAAAGNNACNCCNCCNAGTTTTNCCCTGGGNGGAAAAAGNTT  
TTAAAAAA

Sequence 1350

CCCTTAGCGTGGTCGCGGCCGAGGTACTTCGTCTTCTAATTTCAAAAATATAACTTAAAA  
ATGTAAATATTCTATATGAATTTAAATATAATTTCTGTAATGTGTGTAGGTCTCACTGTA  
ACAATATTTGTTACTATAATAAACTATAATTTGATGTCAGGAATCAGGAAAAA  
AAAAAAAAAAAAAAAAANGTACCTGCCCGGGCGGCCAAGGG

Sequence 1351

CCCTTTGAGCGGCCGCCCGGGCAGGTACAAGTATTATGTATCCATAAAATTAATAAT  
CTTTAAAAATGCATATGGGGGTCTAGGTAAAAGAAAAGAGAACCAAGAGAGCTGCAGC  
GGGAGCACAGCTTGCTTTAAACATGAGATCCAGCTCAGTGATCATGCGGGGGAAGGGC  
CCGGCATTGCTGGAACCTCTAATATTTAAAAAGATGATGGAACTTGAAATTTTATATTT  
AATCTTCTCATTTTAAAGTGTGGCAATGTATTGAAGACTTTGAAGCCTCTCTGCTGGTC  
AAACAAGATGTATCTGTAGGCTGGATTTAGTCCACAGCTGGCCAGTTTGAAGCTGAATC  
CTGCTAGCCTTAATTTAAATTTTTTAAATTTTAAATTTGCTTTGATTCCTGCTCTGCTC  
AAAAAATCTCAATGGCTCCCTGTCTGCAAGGNAAAAGTCC

Sequence 1352

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTACA  
GNTATACTCGNGGAAAGTTATTCAAATTTCAAATTTTACAGNGTTTGAAAAGCACAC  
AACAGAAGATCTTCATTTATGCAACAAGTCAATCATTTGCAGTATGTATGGAAAAA  
ATCTAAGGTAAGTCAAACATACAACTCTACCTNTTGCTTTCTCCATTANAATATACACA  
TTGGAAATCTAAGTTCCAACAGTTCTTNTACTGAANATAGTGAAATTTAGTGCAAGC  
CCCCTAATTACCAATTTTTTG

Sequence 1353

CCCTTTGAGCGGCCGCCCGGGCAGGTACATTGTTTGATCTGGAAAGGCAGGACAACCC  
AAAGCGGGCTGGGGACAGTTCCAAGTTATAGGAGTTTTCCAATTGGCAGTTCGTTGAA  
GAGTTTATCTTAAGACCTGGAATCAATACAAGGGAGTGTGTCTGGGTTAAATAAGGGG  
TTGTGGAGATCAAGGTTCTTATTAGGCAGATGAAGCCTCCAGGTAGCAGGCTTCAGAGAG  
AATAGATTGTAAATGTTTCTTATCAGACTTAAAAAGGTCCAGACTCCTAGTTAATTTT  
TAGTGGATCAGGAAAAAGACCTGGACAGGGAAGAGG

Sequence 1354

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTNGTTTTTTTT  
TT  
TTTTTTNTNTNTNTTTTTTTNANTTNAAAAAANNNANNTTTTTTTANNN  
NANANANANNNNATNAAANNANTTTTTTNAAAAAATCTTTANNAAGGGGGGAAA  
AAAAAANNTNAAAAAANTTTTTT

Sequence 1355

CCCTTAGCGTGGTCGCGGCCGAGGTACAGAACCTGCCTGAGTATGACCTCTCCACCTTAT  
AGTTTATGAATGTCTTGTGTTGTGAAAGTGACTATAACCCAAACTTTTTTTTTTAAAGAG  
GATTTGGAAGTTGTATGGATTTTTGTTATCTTCACTTTACTGCATAGGAAACAATCTAC

Table 1

CTCATCATTTAAATGACATGGGTGTCGGTTTTGTAGATCTTTGGTTTTTTTGTGAGGT  
TAATTTTCAGTTAAACAAATGTAAACATGACATTCCTGCAGATATTGTTGTATACCACT  
ATGGTTTCTTCTCTTTCTTAAATGTTTTTGCCATCAAGTA

Sequence 1356

CCCTTCGAGCGGCCCGCCCGGGCAGGCACTTTTTTTTTTTTTTTTTTTTTTNGTTTT  
TTNA  
AAAAAAAAAAAAATTTTTNNAAAAAAATTTTTNTTNNNTNAAANTTTAANTTTTTNAA  
AAAANCCANGGGNTTTTTTTNAAAAANNTTTTTNCCNGTTANGTTNTNAAAAANNANTTG  
GGGGGGGGGNCCTTTTTNTAAAAANGGGNNNNCCGNCNCCGNAAAAAAAAN

Sequence 1357

CCCTTCGAGCGGCCCGCCCGGGCAGGTACAACACTTTAAAAAGTGAATTTTAAGCTATGT  
GAATATCTCAATAAAAAACATTTTTTAAATAAAAAACAATTCCCAAAGGCCTGGAAATTCAG  
GAACATAATTCAAATAATTTATGGATCAAAAAATAAATCATATAAAGATCTGAGAACTA  
CAATGTAAAAATATAGAAAAAGTCATAACAATATTGAAAAAAATTTGAGCTGGATAAC  
AAAAATAGTACCTCGGCCGCGACCACTAAGGG

Sequence 1358

CCCTTAGCGTGGTCGCGGCCGAGGTACTTACATGGAAATAAGTGTTAAGAAAAGGATTGC  
TTATTGGTAGCATATAGATTTAGAGTCAGGAATGATGGTGATTTCAAACAACCAAGAAC  
GTCCACATGGGTGGCTGGCCAGGATAGTGACACCTTTGCTTTCTAATGGCTTAGTGATACC  
TGCCCGGGCGGCCGCTCGAAGGG

Sequence 1359

CCCTTAGCGTGGTCGCGGCCGAGGTACAAAGAAAAAGCTAAGGAACGGTATGTATATTAA  
TCCCTTTATTAAAAATGTAAAAAGCCAAAGCAAGATAGACGCAGATATGTGCCAAAATA  
TGTATTTTTTTTTCTGGAACAAATCACAAGAAATGTAATAACAGTTACAGTGAGAGGAG  
CCTTTGACATCTCTTTCTAACTATTTGATATCATTTGTATACTAACGATGTACCTGCC  
GGCGGCCGCTCGAAGGG

Sequence 1360

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGGGATAGGCCTTCTTGTTATTATTCAAAGA  
AAGAGACTTGACGTTTTATGAGTGGGGTGGATTGTAGGTTGAGCAGAACTAATGGGAGAG  
GTGCTGGCTAGAGAAAGTTAAAAATTTCTGTTAGCTTTGCATTGAGCTTTTAATATCAT  
TTGTTTCAATTCACCAAGTTAGAGGATTGGGGGTGATGGGCACAACAGAAATGATGGAATA  
TAGGCCAAATGTTACAAAATAGATAAAATTACCTGACCAGTGAAGTGTTCTCCTCAGTCG  
CCATGGANCTCAGATTTGAACTCCCAAAAAAAAAAAAAAAAAAAGNN

Sequence 1361

CCCTTAGCGTGGTCGCGGCCGAGGTACTATAGCTTCAGTGTGGTTTAGTAACTTAGCCT  
AGGAGGCCAAGATGTCTCCCTAAACTTAGTCTCTGTCTTACTTTGTTTATAAGAC  
TGTGACCTAACTTCCCATGGCCAATTCAATCGACTAGGTTATCTTTACTCCAATGGACCC  
AGGCCTTTTCCAGTCAATCCATGTCCAACCTTCATCTCCAGCGTGATCACTCAACTCT  
TCAACATGCCTGCTTGCTGCAGGNTTAAACCACACCCACCATCCTGTGCTTNCCTTA  
ATCGCCCATTGATGCCCCGANGGTAAATAAACTA

Sequence 1362

CGANGTACATGAAATGGCTGTTTTTCCCCACATTANTCAGCTCTGGATTTTGCATGTGT  
GGGGCTTTTTTTTTTTTTGATAGTTATTTGTTTTTATTTAAAAATTTATTTNGCCAA  
CCAGTANAGAACAGCTGAGCATNTTCTCATGTATTTATTGGCCATTTGCATTTCTGCTG  
CTTATTGGCCATGTATTTATNGGCCATTTGCCGCTGCTGTGAAATGTCTTAAATNTTT  
GCCCATTTTTCTAGTGATAAAACACTGAAGCACATTTTTTAAAGA

Sequence 1363

CCCTTAGCGTGGTCGCGGCCGAGGTACATTTAAAGGTGATGCTAATACTTTAAATGTC  
ATAAGATATAGATTNAAAAAGCATTGTAAATTGTATACTAGCAAAAGTCGTCTANATGGC  
ATTGNACAGGACATAATGTAAACAT

Sequence 1364

CCCTTAGCGTGGTCNCGGCCGANGTACTTAACTTTTTTCAGCCTACTACTGCACACCTAG  
GCTATGTGGTATAGCTACCTTGATATGTGGNCTGTCACTGACTAAACTTNGTTACACA  
NGTATGACCCTACTATTCANCTTGAGAAGATGGAAATGCTGNCATTTGCAACAATATG  
GATGAACCTGGAGGACATTAAATTAANTGAAATANGCCAGGCACAGAACGACAAGTAACA  
CATAATC



Table 1

## Sequence 1365

CCCTTAGCGTGGTCGCGGCCGAGGNACTTTTTTTTTTTTTTTTTTTNNTTNACTTNATTN  
TACTTTAAGTTCCAGGATACATGTGCAGAGTATGCAGGTTTGTTACAGGTATACATGTGC  
CATGGTGGTTTGCTGCACCCATCAACCCATCACCTAGGTTTTAAGCCCCACATGCATTAG  
GTATTTGTTCTAATGCTCTCCCTCCCTTAACAGCAGTTTTTCTATAGGNCAAAACAAAT  
TTGGGAACCAAGATNGNCTACTGTCTTTATATAAATGATCATTACGATTTGGGANGAGGG  
TTTTTT

## Sequence 1366

CCCTTTGAGCGGGCCCGGGCAGGTACCACAACGTTTCTACTCTATTGTGTAAGCTTT  
AAATACAAAAATACCACAACCACTCCCGGACTCCTCCATTATTTAGTAATACTGGCTGC  
CCTAGTTTTTCAGGATACATCATGCAATAAGTTCTTTATTTTTCAAATTATTTTATTC  
CTAAAGTATCTTTAATTTTTCTTTTTGGTTATACAGCTTATAGAATAAACAGTCACAAG  
AATCTTCATTTGTTTCTAAAGTATATAATTTTACAAAAGTTGTTTTACTCAATGTGAATT  
AAAATTTGCAAGGTCTAAAAAATAAAAAATTTTAAAAAGTAAAAAAA

## Sequence 1367

CCCTTTGAGCGGGCCCGGGCAGGTACAAATATATTATGAAGCATGACCACCTTTATTTT  
GAACTTAGCAATTGTATTGCTGGGGTTTATTGTATCTGTAGCATGTCACTGATTATTTT  
AGTTAGTTTTATAATGATTTTTAAAAACATATCTATTTGGAATAAGATACAGCAACAAT  
CATTGCTATTGACTTGTTCACCCCTTAGTTACACTGTATGATCAACATATAACAAGATA  
CAGTGGGAATGGCCCATACAGTATATTACTGTTGTGTGATGATTGGCTTTGGAAGCAGTT  
TGATTTTGAATGCTTTGATTTCTAATTGACATGGAACAA

## Sequence 1368

CCCTTAGCGGCCCGCCCGGGCAGGTACATATGATGGGGCCAATGCACAATACTTTTATCAC  
AACTAACTTTTTCTTTGTATCCCTATTTCAATGAGCAGTCAGTCTCAAGAGGTTACTGCA  
TTTCAGTTCTAACTAGACATTTGTACTTGTGATCACACTACGGGAATCTCTGTGGTATAT  
ACCTGGGGCCATTCTAGGCTCTTTCAAGTGACTTTTGGAAATCAACCTTTTTTATTTGGG  
GGGGAGGATGGGAAAAAGAGCTGAGAGTTTATGCTGAAATGGATTATAGAATATTTGGA  
AATCTATTTTAGNGTTNGTTTCGNNTTTTAAACGGTCATTCCCT

## Sequence 1369

CCCTTAGCGTGGTCGCGGCCGAGGTACAGCTTCTCTGCCTCACGTTTCAAGCTTAATGC  
ATCATCTTAATTCATCTTTTCGACATCTATTTCTACTACATGCTGCTCTCTTCTCTATCT  
TACATCTCCAGAATGTTTTATTTCAACAAATTGCTAATCTGTGCCAGGCATTGTTATTA  
GCAAAATGATAAGCCCTGCATGTAGCAAAGTTCTGCTTCACTTGCATATGCATTAAACA  
AGCTCTGATTAGTCCCACTTAAAAACCATTTGTTCCCCGTCATGCAGAACTCCATTGCC  
AAGCCACACACACCCAGCCAGTAGGGTAGCAGCTNCCCTGGAGCAAGGGA

## Sequence 1370

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTATTTTTTTTTTTT  
TT  
TTTTNNCNCCGGNNNAAAAAAAGGNCNAAAAAANGGNTTTTTTTTGCATAATNAAA  
AANNNAAGGGGNTTTNAANGGANTTGGNNTTTTTTTTTTTNGNCCNNGGNAACCTTNA  
AATTTTTTTAAAAANCCNGNAAAAAANTTT

## Sequence 1371

CCCTTTGAGCGGGCCCGGGCAGGTACTGTGCTTTCCTTCTACCTCGTCCTCACCCC  
ACCCCGAGTGAAACTTTTCGAGTGTGAACCTTACTTTTTTCCCGTTCTCCTCAAGGCAGT  
TTGAACGACACAGGTTTGGAAGGAATAGTTAACTCTCCAGTATTATTGGAACATCTGGAC  
ACCACCAACAAAAATCTTAGAAAAAGGGTCATTTAAGGCCTATAAAAAAGTGCCACCTTTC  
CCAGAATTAATTCAGAGAGAAAAATCTTATCTGCCTCCTGGCAGCTACAGCGCANAAAGT  
ACCTCGGCCGCGACCACGCTAANGGGCGAATTNCCAGCACACTGGCGGCC

## Sequence 1372

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTGGTTTTTTTTTT  
TTAAAAANCCGGNTNC  
GCGGGNANANAAGGTNCANNATTNTTTNAAANNNTNANTTTTANCAAAAAAACAAAANT  
TTANCCCAACANNTTATTTTTAACAGCAANANGTAAAAANCCCAANCNACNTTCCANN  
AANAAAAATTTTTT

## Sequence 1373

CCCTTAGCGTGGTCGCGGCCGAGGTACAGCTATTCTCAATGGATAATTCTATAAAATATT

Table 1

TAAAGAAGAATCAACACCAGTTCTCCACACTCTCCTCTAGAAGAAGAGGAGGATGGAATA  
CCTTCCCCCTTAATTTATGAGGCCAATATTACCTGATGCCAAATCCAGACAAAGATATT  
GTCCCCCAAAATAAACTAACGATCATAGATAAAATACCCTCTTATAAATTTAGATGCAAA  
ATCTTAAGCAAAATATATTAGCAAAATGGAATTCACAATGGAATAAACCTATTATACCA  
CCAAGTGGGAATTTATTTCTAGCTATTGCAAGACTAGCTTGGACCTTTGAAAATTGATT

## Sequence 1374

ATATCTGCAGAATTCGCCCTTTGCGGCCCGCCCGGGCAGGTACTGGGAATACAGGCATGA  
GCCACCGCACCCGGCCAGAAATTATAAATCTAACCAGGATTCACCTACAATACAATGA  
AATATCATTTCTCTTTATAGGTTTTTGGTTTTTAACCAATCTATTTTAAAAGGGGCAATT  
CAAGGATTATGGTTTATATGGNNGGATTTCTGTTTGAATATGATCAAATGTTCACTGGAG  
AACAAGCAATAATTTGCAAAAGGCATATNTATGCCTTACATTAAATGTGGATCCTCTTCT  
AAAAGTAGAATAAGCATCAGTTCAGTCACCCAACGGTGGGAAG

## Sequence 1375

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACGCGGGGGATATGATTGGCCGGCGAATCGTGG  
TTCTCTTTTCTCCTTGGCTGTCTGAAGATAGATCGCCATCATGAACGACACCGTAACCTA  
TCCGCACTAGAAAGTTCATGACCAACCGACTACTTTCA

## Sequence 1376

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACTTTCTTTTTTCTTTTTCTTTTTTTTTTTTT  
TTTTTTTTTGAGACAGGGTNTCACTCTGTCAACCCAGGCTGGAGACAGAGCAAGATCCCGT  
CAATTAACAACAATAAATAAACAATAATGCCCCAACAAGGAAGAGAACGGGAAGTCAT  
AGGCAATCTCATTTCATGAACATAGATTAAAAACACCTGAAGTATATACATACCCACACCC  
CCGACATGAATACATATGAGATGTGTAATGTGAATACTTACATGTATGTATGAAAGC  
AAACCAATCAACAATGTAAATAAAAAATAACACATNATGACTGACTGGCATTGTGCC  
AAGAATGCAAGCTACTTGAGAAAAATCTATTAATTCATCAATTAATACTTTAAAGAG

## Sequence 1377

CCCTTAGCGTGGTTCGCGGCCGAGGTACCATATAAAAAACATTCCAGTGTCACACGCACTTT  
AAATTTTACAGTAATATATGAAAGAACAGACTTTACACTTCTTTTGCACAGAATTATCT  
TTGCTATGTTTTAAATACCTAAGAAAATAGAAACAAATTAAGAGAGTTTTACCTTTAA  
AATTTATTACATAAGCTATACACACAAAATGAAATCCTAGTTATAAAGATGCATCTAGA  
AGAATAATTTATAATAAACCAACAAAATGAGAATGTGTATCTCCAGGAATATATAATATA  
TTTAAATGTTCTCAGTGACTGGCATTGCTTTATGCATTACATAAGATAGTATGTACCTGC  
CCGGGCGGCCGCTCGAAAGGG

## Sequence 1378

CCCTTAGCGTGGTTCGCGGCCGAGGTACACAGGGGCTTGACTTTTTCAACTTCGTTTCCTT  
TGTTGGAGTCAAAAAGAACCACTTGTTGGTTCTAAAAGGTGTGAAGGTGATTTAAGGGCCC  
AGGTCAGCCACTGTTTGTTCACAAAATCAGGTAACCTAAGTGCATACACTTTTTCTCTTTC  
CATGACATCAAGACTTTGCTAAAGACATGAAGCCACGGGTGCCAGAGCTACTGCGATGC  
CCCGGGAGTTAGCCCCCTGGTAATAGCTGTAACTTCCAATTTCTAGCCATACGCTCAGC  
TCATCCATGCCTCANAAAGTGCATCTGGAGAGAACAGGTTTCTAAGCATAAAAGATGAAAG  
AGCAGTTGGACTTTTTAAAAATTCAGCAAAAGTGGTCCCTCTCTTAGGGACAGTCAAAAC  
CAAGTCACTTAGGTAGTACCTGCCCGGGCGGCCGCTAAGGGCGAAT

## Sequence 1379

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACGCGGGGTGAATGGAATGCCTTGCAATATGAA  
TGTTAATATAATGTGTAAAGGGAGATTAAGAAAGTTTGAATGATTATCCTAAAAA  
AAAAAAAAANGTACCTCGGCCGCGACCACGCTAAGGG

## Sequence 1380

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACAGTAATTTTGAAACCTCTTTGATGTCTGG  
CTTATAGAAGACACCTGGGTTCTTATATCTGCTTCTGAATCGATCTATTGTAATGNNGT  
ATTTTGGCTGAAGTATGTTGAAGAAAATACTACCTTACAAAGATATGTATTTTCA

## Sequence 1381

CCCTTTTCGAGCGGCCCGCCCGGGCAGGTACAAGCCATTGAATAAGCCTCTTCTTTTTTTT  
GCTCAAACATTCCACATCCTTGTGGATTCCCCTGCATTGTTTGTATATAACATTTGA  
TATTTGTTGTANCTTGATATGAACATAATTTCTTTAGAGGTAGTCACTGTTCTCTCCA  
GTATGACCCAGGTTTCTTGACTCTGAGTAATGCACCTTCTATACTATCTAAATTTCTAT  
TGAAGCTTTTTGGATTATGAGTATGCTGACTTTTCACGATTGGCTGGTGCATGTTTAGAC

Table 1

TTAAATGTCATATCCTTCATGTCTCAAAGCCAAAATAGTAACATCTCATCTCAGAACANG  
AGCTGTGACCACATGCCAATATATGTGTCAAAAGCTACATATGTTACATTCCTTGGA  
GTCTCCTTAAATGTTTCACAAAATGTCAACAAAGCTTGNTTTGNTATTGGATATTTCCGA  
GATTGGGCACATTTAAGACAGTAAACGGGGAAAGGTGGNGAAAATCTATAAGAAAGATGC  
TGTATCTTGAGAATTGGAAAAATGANGAATCNTGACATGGTTTGAAAAATCAT  
Sequence 1382  
CCCTTTGAGCGGCCCGNCCGGGCAGGTACCAAAATTCATTCAAGAAGAAATAGATACCA  
GCCTGAGCAACATGGCAAAATCCCATCTCTACAAAACATCAAAAAAAAAAAATTAGTCC  
GGGCATGGTGGTGCACACCTGTAATCCCAGCTTGTGAGGAGGCTGAAGTGGGAGGATCAC  
CTTGAGCCCAGGGANGGTCAANGGATGCAGTGAGCCATGGGTCTCACCCTGCACTCTAGC  
CTGGGGTGACAGAATGAGACCCCGTTCTCAAAAAAAAAAAGAAAGTNGATAATCTTGAAT  
AGCCCTATATCTATAGAACTTAANAGTGCTGGGGAGATATAGGTATTATTATCCCTCAA  
TTTTACNAGATGGTGAATTTGAGGGTTCANAAGAAGTAAAGTCTATTGCTCAAGGTCA  
TGGTGGCTAAGAATATTGGCANANNCATGAATTCAAAATCCAGGGTTTTTTTGATTCTTT  
ATTCCAAGGGGTCTTTTNTAGCAATACCCTTGGTTGNCCTNTTAAAGAATTGCANTTCC  
NTTTTTACTAANAAAATTTGGTTCCTTGGCCCAAATCNTAAATGTTTCAACNTTCAACC  
CCANTTTTTTTTTTAAAGCACCTATGNNTTGGNGTTTTATCANGCATTAAATNTTGNATT  
GGCTTTTGGAAANACCNGTNTCNTNTNGGGGAAAGGGGAAAAAAAAANTTTTTTTTCCA  
ACTTGGCCCTTCGGNCCAANTTGGGAAAAA  
Sequence 1383  
CCCTTAGCGTGGTTCGCGGCCCGAGGTACTTTGTGTTGTTGGTATCCAAAATTAGGACTCT  
GAGATTCTTGTGATTTCAGAGAATTTTTAGTAGGAAACAAGGACAAATTTGCATATGAAA  
TGAAAATAGTTATTACATGACAAAATATGTAGATCTGATTCTAGAACTGAATTAGTCC  
AAAAACAAGTAAGAGTGGGAAAAGCAGTAAAAAGTTCTTCTTGAATATTGCTGTTGTCATC  
CAAAGTATTCTTATTCTTTTAGGTGAAAAATTTCCATTACTCTTTTGNGATATTCTCAA  
AAGAAAGTTTAGGATTTTACAGGNGTTCTGAAATACTGAATCTTAATTANGTATTTCAA  
TAGAGTATTATTGATTGCTTCTTATCAGTAGATTTTTAAANTATTTATTCTAGGCTA  
TAGATCTTCTAAAAATATAATCCAAAGTANNTTAAAAAGCCCGATTNTAANCCAAAGTA  
TAAAAGATCTCTTTTTTGGGAGCCTGCTNTNTTAAACAGTTTTTCCCAANNTTGGGTTTT  
GTTTTTGGAAAACANGAAAATATNTGGTNCNTAAAAGCCAANCTTTTANTTCTATTANNA  
GGGTTTTCTCGCCTCANAANAAACCNNTNAAAAATTTANGTTTAAATTGGGNANGGGAAC  
CCCGNGNAAAAAAAAAAAAAAAAA  
Sequence 1384  
CCCTTGAGCGGCCCGCCCGGGCAGGTACCTCACTCATCTCATCCTTGGCTCAGCCCTGCTG  
GTTAGTATTTAGTATTTATTTTAGTAAGATATTTGTGTCTGTATGATGGTCAGAGTTGAA  
CTGATCTGGCTTGTCAATTTTTCAGTAATAAAAAAGTTACTGAATTTAATTGTTGAATAT  
GATGCATATCTCATTACGATTTATCAGAAACCAAAGATTTAAATTGCCTAGATTTG  
TGGTCTTTCTCTTCTAAGTTCCCGAGGACTGCTTTCAAATACTATTTTCTAAATTTCA  
CCAAAGGAGCAACCGAGGATAAAACAACACTCCATAAAGGCCTCTTGGGATGTCAGAAAT  
CTAAAATCTAAAAGAAAACAGACACAGAGCAAGACAATAACATCACAAGCTAAAAGCCAG  
AGAAATTTAAATACCAACATCCTTGTGGAGTAAGACAGTAAATATCAGCCTTGCAGC  
AAGACAGCTCTGAGCAGCTGTGGGCAAAGAGGTAAACCAGTGGGGGTGCAAGGAGACTGT  
CTGCAGCTTGGGGCAGAAATGGTGGGAANCAACTTGNAAAAGCTTCATGTTTTACAAAC  
CAAAAAGGTCAGGTAGCACCAACNTATTGNATGGTCAAAATCAATAAAAGGTTACTTTCAA  
AAAAAAAAAAAAAAAAA  
Sequence 1385  
CCCTTCGAGCGGCCCGCCCGGGCAGGTACTTTATTTTTTTTTTTTTTTTTTTTTTTTTT  
TT  
TTNNAAAAAANTTNTNNNNNTTTTGGGGNNNGNAAAAAANNTAAAAAANTTTTNNGGG  
GNNTTTTAAAAANNTNAAAAAATTTTTTTTTTTTTNTNGNCCCCCCCCCAANCATNTAAA  
ATTTNGGNGATNNAAAAANAAAAANTNNAAAAAATTTTTTTTTTTTTCNTGNNNNN  
TNAAAAAAANGTTTTTTTTTNCNNAGGAGATTTAAAAAAGACTNTTTTTTTTTTTN  
NCAGTTTTTATTTAAAAA  
Sequence 1386  
CCCTTGAGCGGCCCGCCCGGGCAGGTACGAAAGCAGTCATAGACAGTATGTAAACAAATGA  
GTGCAGNTGTGTTCCAATAAACCTTTATTTACAAAAACCGGCAATGAGATGGATTTGGCC

Table 1

TATGGGCCATCATTTGCAAACCTCCTGATTTANAACAACCCTGCCATGAGTTCTTCCACAG  
GCTTGA AACAGGAAGCAAAATACAAAAGTACCTCGGCCGNGACCACGCTAAGGG  
Sequence 1387

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCCCT  
TTTATTTNANTTTTTTT  
TTTTTTTTTTTTTTNGTAANTNNTTTTTTTTTTTNATNTNTNGGGNCNNNNNAAAANTTTT  
TTNGNGAAAAAAGNGNTTNNNCNNNTTTTTTTTTTTNAANANNNCCTTTTTTN  
TATNTAAAAANNTATNNGNGNTTANGTNANAAAAATAAAAAANTTTCCCNCCCCANAAA  
AAAAANCNCCAAAAAAATTTTTTTTTTTAAAAAAAAGGGCNNNAAAAANTTTNN  
CNCTTTTATTTNAAAAAAANTTTGGNTTTTTTTTTAAAAAANAAAAANNTTNTTTT  
TNAAAAAAANTNCNCCCCCNANANAATAATTTNANCTTTTTTTTTTTNGGGNAA  
AAAAATNTTANAAAAAATTTTNTTAGAAAAGAANAANATATATGANAATTCCTCAA  
AAAAAANGANNTTTTAAANANTTTNAAAANAATAATACTNNCTCTCCTTGGGGGGG  
GGGGNGGGAANNAATNTTTTTTAAAAACATANATNTTCTATAAAAAAACCCC  
Sequence 1388

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTNTTTTTTTTTTTTTTTTGGTAGTAAAAA  
TATCCCAATCTCTTAAATGTATAGGTGAAAAATACTAGTTTCGAAATGATTCCTTAAAAA  
GCAACAATAAAAAATACTCTTNTTCACTTGAAAGAAAAAACCCAAAAGGCAGTGTTCATAC  
AAAGTCATGAAGAGAATTTAAATTAAGGTTTTGGTTCCACTTTGTCTCAACTTTAACTTT  
TAACAGTTNTTTATAGGCTTTTGAAACCTACTTTGGAGAAGGAAAAAAGTAGGAATAAC  
TGTTCTTCAAAAATTTACAAAAACAGTTTGACTCAACTTCAGTTGTTAAATTTGGGGTA  
TTTTCTATGTTGAAACAGTATTGAAAATTCTAACTTATACTGGCAGATAAAATGATAA  
AAAAGACATTNTACTCTTNANAGGATTATCAAATGCTGGTGATTCCCGCGTACCTGCCCG  
GCGGG  
Sequence 1389

CCCTTAGCGTGGTGCGGCCGAGGTACTTTTTCTTTTTTTTGTAGACGGAGCATCGCTCT  
TTCTCCAGGCTGGAGTGCAATGGTGCTATCTTGGCTCACTGCAACCTCCACCTCCCGGG  
TTCAAGCTATTCTCATGTCTCAGCCTTCCAAGTAGCTGGGACTACAGGTGCCTGCCACCA  
TGCTCAGCTAATTTTTGTATTTTAGTAGAGATGGGGTTTCACCATGTTGGTCAGGTTGG  
CCTCGAACTCCTGATCTCANGTGATCCACCTGCCCTCGGCTTNTCAAAGTGCTGGGAATT  
CAGGCANTGCCACCATGCCTNCGCCGCATGTGGTCAATTTCTTGGGGGTAAAACCG  
GATCCGAATTTTTGCAGGTTGCTTTTTGTACCAAACCTNTTTTTNGGGGGAAA  
Sequence 1390

GGATATCTGCAGAATTCGCCCTTCGAGCGGCCGTCCGGGCAGGTACTCTCAAAGCTAGG  
GCTGCTGACTGAGCANCTACAGAGCCTGACTCTCTTTCTACAGACAAAATAAGGAGAA  
GACTGNACAAGAGACCCTTCTGNTGANTACCCTTGCCAAGNTGTCTGCAATGCTTNGCC  
GANTTTTCTACTGAGTT  
Sequence 1391

CCCTTAGCGTGGNCGCGGCCGAGGTACTTTGTTTTNGGNTGGTNGGTTTTTTAAATAACA  
GCTTTACAGAGAGATATNATTCATAATTNATAAGGNTTTAACTTTTTTTCTTTTTTAAG  
ACAAAGNTTACCTTCTGTACATTGAAAAATCTCCTATATTCTNGGAAGATTCTGAGCAA  
TACATTCACGACCCAGGTTTGGGATTNNGCATACTATTGGANAACTGTTTCCTGAANAT  
AAACACTTCAAGAATTTGAGAAAAATAAACTAAAACCCGAAAACATTGAACACAAAGGC  
NCAAAAACATTTGCCTTAACATTGCANNAAAAAATTACTTTAAATCCCGGATNTGGCTTN  
GNAAAAAANAAGNTTTTTNTTTGTTTTGNNTTNGCAAAAACTTTTTGAAGGAATGGC  
ATTGAANCTTTANNANGGGGGGAACCNCCNTTCAAAGGGAAAAATTTTTTTNCCTTTNA  
GAAGGGAATTGGANCTNAAAAAANAATNTNGGTTANAAATAAAAAAANTTTTTTTT  
TTTACAAGTTNGCNAAAAAATTAANAANAACCTTAANCCTTTCTACCCAANAACCCCA  
TTTTTTNGAAAANTNGGANAAGTTTTAAAAAATTCNAAAAA  
Sequence 1392

CCCTTTCGAGCGGCCCGCCCGGCCGAGGTACATAATGTAATTGTTACATATAATTGTTGTA  
TACCATAACTTACTATTTTTCTTTTTATTTTTATATATAATTTTTTTTTGGTTGTTT  
GTTTGTTTTTAATAAACTGTTATCACTTAAAAAAGTCTCGGCCG  
GACCACGCTAAGGG  
Sequence 1393

CCCTTAGCGTGGTCGCGGCCGAGGTACAACCTGCCCTACATTTCTGCCTAAAGGCAATTC

Table 1

CAGACTACACANACNGAGANGAAATGCAAATAGAGCCCANCTGTCTCTGAAAAGAGACAA  
GAGAAATCTAATTTCT

Sequence 1394

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTCAGTATGGGG  
TCTGTGTTGCCAGGCTGGAGTGCAGTGACTATTTCATAGGGGCAAGCATTATGCACAACA  
GCCTCAAACCTCCTGGGCTCAAGTGATCCTCCTGCCTGAGCCTCCCGAGTAGCTGGGACTA  
TAGGAGTGCACCACCACGCCAAGCTGGCATTCTCTGTTTTCTTATTTCTGATTCTACTT  
TTAGCTTTCTTAATATGCTGATATGTTTTGTTTGGTATATCATATATTAACAAACAGTT  
CATCTCATCCCCATCATTTNTATCTTTAAGAAGCCCCCAACCATTTTACACATTTAGGN  
AAACAATGGGCAGGCAATAAGGNTAGNGAACATTCCATAGCCCTCTTTTGATAAACACA  
TCCTTACCTGNTTTTACTNGTNAACAAAGGAATTNTACAATTGGGTTTCTGGCNCCTAA  
AAATTCAAACCTTAACTTTTTTTTTGGGAGGGAGTTGGNGGATNCCAATAAANGCCNA  
TNNTTTTTTGAATCNTTGAATGGAATTGACCTGGATTGAATCCCATTTAAAGTCTT  
TTACTTTATTANGGTTTTNAACTTTATTTTAAAAATTTTCTTAAGAAGCTNAAAAA  
CNNCTTGGGGTCTTAANNNTAAGAAAACNAAAAATTTTNTCCAAATTTTAAAAA

Sequence 1395

CCCTTAGCGTGGTCGCGGCCGAGGTACNCGGGGGCGGAAGTGGGGTTGCGGCGTCTAAGT  
GTTTCCGTTGGATTCCCAGGGACTGTCGGAGGTGTGGACTCTGCCTGCCTACCTGGTCTG  
GNAAGATGTTCTACCATATCTCCCTAGAGCACGAAATCCTGCTGCACCCGCGCTACTTCG  
GCCCCAAGTTGCTCAACACGGTGAAGCAGAANCTTCTTCACCGAGGTGGAGGGGACCTGC  
ACAGGGAAGTATGGCTTTTGAATTGCTGNCACCACCATTGACAATATTGGTGTGGGTG  
TGATCCANCCNGGCCGAGGCTTTGTCTTNATCCAGTTAAGTACTAGGTGACTTGATGA  
AACTACTTTGTTGAGGCTGNTGGAGCAAAGGNGCAAATACTATTNNTGCAATNAAAA  
NTAAAAAGTGACACATTANTAATCCTTNAAAGGAAATCAATTTCTTTTTTNTCTGGNN  
CTTCNTTTTTGAANCATGGTTATGGGAAACCTTAAGCCTGTNTTAAANNNGGAGTATTCTT  
TTANTTAAANNTGNAANNGCCTTTTNTACTCCTTTTAAAAAATAGNNATTTNTTA  
AATNCAATNGAAATTGNNTNGGGGAAAAA

Sequence 1396

CCCTTAGCGTGGTCGCGGCCGCGGTACTTTTTGTTTTATTTTTATTTTTTGGAGGTA  
TGATTCTTTCTAGAGATTTTTCTCATGGCTACTATTAGATCAGGAATGGGTGATTGGGA  
GATTATTAGATCTAGGTAACTTCTACCCTTTACCCTAATACATAAACTTTTTCTAA  
ATAAATGATGGAAGGAATNATACTTGGGTACCTGGCATTATTTTCAAGTAAAGAAAAAGC  
TTTACTAACCACTACATTTATGGAAANTTGTAGGGGTAAGTATTTTATAGGTCATAAAAA  
AACACCATAATATTAACGAATCTCATTTTTCTTTTAAATGTGAATTAATCCTAACAGG  
CATTCTTTTATAAAATGACCCATAGGCTAAAAAT

Sequence 1397

CCCTTTGAGCGGGCCCGCCGGGCAGGNACATGTGTGCGCCTTANATCATNCAACCTTTCA  
GTCATACTATGTGTAAGGCAGTCTGCTAGGTTCCAAGGAATGTGGGGCTAAGTGAATAA  
GATGCAGCTCCTTACTTTAAGTCTGGCAAGGAAGATGCATTTTTTACNTAACTTCCACAG  
TGCAATTGTGAAACATGCCATATGGAAGGGATAAACACTGATGACAAAGTNATTGCCAACT  
TTTACTAATTTTGTCAAATTTTAAAGAGGTACCTTTGGCCNCGACCACCTTAAGGGCGA  
ATTCCAGCACACTGGCCGGC

Sequence 1398

CCCTTTGAGCGGGCCCGCCGGGCAGGTACAAGTTGTAACCCCTGATTCTGTGAATGTGAC  
CTTTCTGGAAGTACGGTCACTGCAGATGTAATTAAGTTGANGATCTCAAGATGAGATCAT  
CCTGGATGCAGGATGGGACCTAACGATAATGGCTGGTGTCTTTATAAGAGAAAGGAGAAN  
GANATTTNAGACNCANACATGCANATAGGAAAGCCNCNTGGAGACGGAAGCCAAANCCTA  
GAGTGNTTAACCTACAA

Sequence 1399

CCCGCCAGTGTGATGGGATATCTGCAGAATTCGCCCTTAGCGTGGTCCGGCCGAGGTACT  
TACATAGATCTAATTTATACAGTGAGTCAAGACGTAGAATAAATGCTCCCACATAGCCTN  
TCTTTTGCTTTTCTTCTCTCTCTGAAGTGTGAGTNGAGTNCTCATTTAGGTTTGTAAAC  
ATGGCTATTTCTAAGTTGTAAAGTNCTGCATTTATAANTGCCANTGTTGNAAGGTGGTG  
TTTCTANACCTTCCCTGATGCGATTTTA

Sequence 1400

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTCTTTCTTTTTT

### Table 1

[illegible]

CCCTTAGCGTGGTCGCGGCCGAGGTA CTCAATCAGATGTTAAATTCTTCAATGTA AATGCT  
TCTGTCA TGCCATCCTACCTCCTGTCTCCCCACCCCCTCACACACACCTAAAAGCACTC  
TGGGCACAGTAGTTACACAATAAACGCTAAAAGCCTGATTTAACAAC TGATATAAACAA  
ACTACTTTTAGTGACTACTATACTCTGGGCATGGTATTAACCTATCCCAACCAGAGTA  
CCTGCCCGGGCGGCCGCTCGAAAGGG

CCCTTTTCGAGCGGCCGCCC GGCCAGGTACTTTTAAAAATATATATTTTCTAATTTTGAAAC  
ATTCAAGCTCGCATAATGGTTTACACACTGTAACTCTTGCTACTTGAGAGGCTGAGGCCG  
GAGGATGGCTTGAGGCCGAGGAGTTCAAGACAGCATGTGCAATACAGCTGGGACACCTTCT  
GTATTTAAAAAAAAAAAAAAAAAAAAAAAAAAGGAAGGAAATGTTCAAATACACAGAAAAGTT  
GAAAGAAATATTATAAGTGAATATCTGCATCTTTTCCCCTAGGTTACCTGTCCACCTTGA  
CATGCTCTTGAATTGTACCTCGGCCGCGACCACGCTAAGGG

CCCTTAGCGTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TTTTTTTTTTTTTTTTTANAANGGTGGTATTNTAACATTTATTAAAATAATGCTGGGGGT  
TAATANAAACNNCAAANAACCAANAATTTAAATGCAAGCTNTTTAAATCCCACT

CCCTTTCGAGCGGCCGCCCGGCAGGTACTTTAATTTTTCTATTTATGAATTGCTTATT  
TGCTTTGCTCATTTCTCTAGTAAGCTGCTTTTGTTAATTTGTGAGTAATTTATTC TAGGT  
ATCAGGCCCTCGGCATCTGTTCAAATTTCTAGTGCTTTGTCAAAGAGAAATTTTAACT  
TCAACATAAGTAATTTGTCACTTTGTCTTTAGTTTTAGTTTTGTATTTTAAAGACATAATAT  
CTATTACTTTAAAAGTATTGAAAGCTGTATGTATATTCCTCAACTAGCCACCTTATTTCT  
GTTCTAGAGTTTGAATTTCTTAAGCTCCAAAAACACACAATAATTTTTAAAGTCTTGATCA  
AACTCTGTTATCTTGCATAGCTATTTTTCAGCATTCCATTAATGAATTGAGAAAAA  
GGAGGTACCTCGGCCGCGACCACGCTAAGGG

CCCTTTTCGAGCGGGCCGCCCGGGGCAGGTACCTGGCTACAGTAAATGCTCAAGGCCCTTTGT  
TATTAATTTTCAGATGGTCAAGAATAAATGTTTTTCGAAGGACTCTCTTTTGTAGACAACCTG  
TGATGACACAGTTTAGAGTCGTAATAATTCTGCTGGCAAGATACTTTTTAAATTAFAAA  
TGTAAGAACCTGAGGGGATTCACTCCCAAATGTTTATGGACAAACTGAAAGGGCATTTA  
CACAGATATTACCTTCTACATTTATGTGAGAAAAGTGCTTTAAGACACTGTACCTCGGCCG  
CGACCACGCTAAGGG

CCCTTAGCGTGGTCGCGGCCGAGGTACATACAATAGAGTATTATTCAGCCTTAAAAAGGA  
TGAAAAAATCCTGACATGCTGCTAAAATATAAATGAATGTTGAGAACATTATGCTAAGTGAAA  
TGAGCCCATCTAAAAAGGCCAAATACTGTATGATTTCACTTAACTGTATATCCAGAGTAG  
ACGAATTCATAAAACAGAAAGTAGAATAGAGTTTCCAGGGACTGGGAGTTACTTGATA  
TAGAGTTTCAATTTTGCAAGATAAAAGAGTTCTGGATATTGGTTGCACAGCAATATGAAT  
ATACTTAACACTACTGAACTGCACACTTAAAGATGGTTAAGATGGTAAATTTTGTTAGGT  
GTTTCTTACCACAATTTAAAAAAATTTTAATTAAGGAATTA AAAAATTTACAAAATAC  
TATTCATCATCTGNGGTTTNCAGTTTATATTCAACACAGCAGTATTTCAGGTATAGTAATT  
AACTTACTTT

CCCTTAGCGTGGTCGCGGCCGAGGTAAGACCTTCTCGCCACTCTCTCCACATGA  
GAGAGTCAGCTGCCCTTTCTCCTGTGCCTCTGCAGGAAGAACTCTCTTGCATGGCACATC  
TCAGCTCCTCATTGAGGGATAGTTTTCTTTGATAAGAAACCTGGAGTCCATTTACTCTGA



Table 1

ATGCAGCTATTTCAAAGTGTGTTGGATTAATTAGGATCATCCCTTTGGTTAATAAATAAA  
TGTGTTTGTGCTAATAAAAAAAAAAAAAAAAAAAGTACCTGCCCCGGCGGCCGCTCGA  
AAGGG

Sequence 1415

CCCTTCGAGCGGCCGCCCGGCCAGGCACAACCTTTCAGGATGCAGTTCCTTTCATGACCAT  
AGTGTTTTTTTTCTATTACTCTTTCACCTACTCACAGGATTCAACCCATCTGACTCATC  
TGTTCCCTCCTCCAGACTCTTCTTGATCTTTATTTTTTAATTTACCAGAGAAGAGCAAG  
CACGTGAGCAGTGAATAACTTGCAAGGATGCAGACTTTTTTATTTTGCAGTGTACTTTT  
ATAAAAAACAAACCGTAACATAAATAACTCTTTAATGAAAACTCAGAAAAATATTAATCT  
ATTCTTAAAAGGGTTTAGAAAAGAAAAGAAAGACAGCTGTTAGGTTATTTGATTTCAAGT  
TTATCAAATAAAATTCAAATAGAATTGGCAAATCTTTAATGGCATATGAATACTTCTATC  
ACTTAGTAATTAATTTGAACAGAGATGTTATTAGGGTCCTTAGTATCACTCCATCCCTTC  
CCTCCATCTTTATACAAAAAGAACATACAGAAATTTAACAAAGATATATGACTTACTCA  
TATGTTTTTATAAAAAGTATCACCTAGCANGTGTCTTNCATTTAAT

Sequence 1416

CCCTTAGCGTGGTCGCGGCCGAGGTACACGTGTTTTCTGAGTTCCTGGGCACAGCTTTAG  
CAAATTAATCAAACCTAAGAAGGGGGTCTGGAACACTGACTTGAAGCTGGTGGCCAG  
AAGTCTGGATGAGGCCTGGCCTTACAACCTAGTCTGAAGTGGGGCAGTCTTGAGAGA  
CTGAGCCCTCTCTCAGCCTGTGGGATCTAATGCTATCTCCAGGTAGATAGCATGAGAATT  
GAATTGGATTAGAAGGTGCTCAGCTGGTGGTATCTTCTGCAGAACTGATTGCTTCTGTT  
GGTGGGGAGAAATCCCCACACATTTGGTCACAGAAGTCTACTGTGTTGATGATTGTGGTG  
TAAGAGCAGAGGAAAAGCAATTTGATTTTTCTCCACAAGGGGAAGAAATGTTTCATGAT  
TCAACTAATGATTTACCTTTTCATTGTAAGGTTATCATGCTCAAGTATTAATGTAGGAAGG  
CTTTTTTGATGCANAGTGTGTGTGTGTGTGTGTGTATATATGTGTGTGTTGGAGAGG  
GCTAACATTA AAAAGGGAAATGTATAAGGAAGAAGAAATGGNGNTCTAAACTTAA

Sequence 1417

CCCTTAGCGTGGTCGCGGCCGAGGTACAGATCACACCTTTAAGATGGTCTCCAAACAAA  
AGATTCTACAACCTTAGTTATTTAGAATTAGCTTTGAGACTTTGGGCAGGTCACAATTT  
TCTCTATCTCCTATCCTGTAACCTCAGAACCAGACACACTACTAACATCATAACATCCAA  
ACTTGGTTTTTTGTTTTTTTAAACAGATAAAAAATGTGACTGGGCACAGTGGCTCATGCC  
TGTAATAACAGCATTTTGGGAGGCCAAGGTGGGAAGATCGCTTGAGGCCAGGATTTGAG  
AGGGGCCCTGGGCAACATAATATGATCTCATCTCTACAAAAAAAAAAAAAGGAAAAAAGG  
CAACATTAGTGGGGTGTGGTATTGAGCACTGTAGTCCAAGCTACTCGGGAGACCGAGGCA  
GGAGGATTGCTTGAGCCCAGGAGTTCAAGACCAGCCTGGGGGAAAGTTTCTAGTGGGCTG  
CAAAACAGCATCTAGCCATTGTCTCTTCAATGTACCTGCCCCGGCGGCCGCTCGAAAGG

Sequence 1418

CCCTTAGCGTGGTCGCGGCCGAGGTACTAATTTACACCAACAGGTGAAGTTTCTAGAAG  
AGTCGTCAACTGGTAACATGGGATTAGCTGCTAGAGGGAAGTGGGACTCTAAAGAGAACA  
TAAGCAGCAAATTGCAAGAGCATCTGTAACCTGCTGGGCTAAGGCAGGGGACCCAGGAGGG  
AGCAAATCCAGGAATGGGGTGGCTCCCAGGGCCGAGATCCAGACCTCATTAAACAGGAT  
TTGGTCACGGCCCACTGGATAGTGGGGAAGCCTGTGGGGTTGTCCATGTGGTGGCTGGCA  
AGCAGGGGCCTGCTTTCTGGGGGTGCTGGTGGAAATCACTAGACAGTTACCTGTGGGTG  
CCTGCAACACTTTCTGGGCGTTATAAGGAAGATGGCCTCTAGTGTGCTAGTGGAACTCTC  
TGGAAGCTACCTGGAGGGTGTATGCCAAGAGAATTTGCTGGGAAGCCATGCTCTGGGGAAC  
TGGTGGAACTCCCTAGGAACTGCCTGTGGGTATGGTGCCACTGAAATCACTGNGAAAC  
CTCCTTCTGNAATTTCTTTCTTCTTTTCCCTTTCCCTTTTTTTTTTT

Sequence 1419

CCCTTAGCGTGGTCGCGGCCGAGGTACACATAAGTTCATTCTTGGCTTTTTAAATTTAT  
GGAAAGACTAAATACATTTGTGTCTATTAATCAAAATATGAATTTAGAAGGAAATAATTT  
TGTGTA AAAAATTTGATGTGGTAAAAATTTACCTAATTTAAAAATTTGTTGTTCCATAATTT  
TTTTAAAAAGAAAAATTACAGAAATAAGACTTGGGGGTGGGGGTTGAAAAGTGGTGAAA  
GAATAACAAGTAGAAGAGGATTTCTAAGCACTGGTCTCATGAAAAAGTTTCATGTG  
TGACTGGGTCCACTGAGATTGAAAAGAAATTTGTTATACGATATTCTAAAAATTAATGT  
TGCTGTCAGGGATGACATGATACAGGACCAGAGTCTGTGTAACAACAAAGTTTCTTAA  
AGTATTGATACACGCTTTTAAAAATTGCAAGAGGTTTAAAGTTTAATTCAAAAATCTGTT



Table 1

TAACAGCCATTTTGTACCTGCCCGGGCGGCCGCTCGAAAGGGCGAATTCAGCACACTGG  
C

## Sequence 1420

CCCTTAGCGTGGTCGCGGCCGAGGTACACCTCAGAGAGGACTTGTATCTAGACCAAGAGG  
ACTATGCCTGTGGGCCAAATCTAGCCCAAGGTCTTGTCTTTGTAAAGTCCCTGTGAGCTA  
AGAATAGTTTTTCATACTTTTTAAAGAGAGAGAGAGAGTGTGTGTATGTGTGTGTGTAT  
AATGTGACAGAGACTTTATATGGCCCTCAAAGCTTAATTTCTTATTGGCCTTTAAAGTT  
TGCTGACCCCTGATGGATGCTATAAAAAATAATTTCAACTATCAATACAAAGAAAACCAAC  
AACCAGTGAAAAATGGGCAAAGAACTTCACCGTACCTGCCCGGGCGGCCGCTCAAGGG

## Sequence 1421

CCCTTAGCGTGGTCGCGGCCGAGGTACGACGTAACCTCCAGACATAGGCTTTAGACGTTCT  
CATGCCACCCTATCTTCAAAACACAGAGAGTTCATGAGCCAGTCTTGCCCCATCTCCAAT  
CAGGGAACCTCTAAAATAAAAAATCTTAGCAATCTCCTTGCCCCAAAACCTCACCCCATCT  
TGGAAAGGGAGGGGAGAGAGAATGTTCTGATCTATATCTGATGAGGGCGTGTGGTTGGGAC  
CTGAGCATCCTCCTGTTGGGCTAGTGATC 3GGAGAGAGGGCTGTTACTCACGACTCCCT  
CCAACAGAATACCAGAAAACAGGCAGGCAGCTCAGGTGTATGTAAGGATGTGAGGCCAAGA  
AACCAGCCCTCACCAAGTTACCCCTGTAATCCTTGTCTCCCATGCACCTCTACTTTGA  
GTCAGAAATGGATTTCATTGCAGGCTCAGTTGTTTGTATTATGTGAATGAAC

## Sequence 1422

CCCTTCGAGCGGCCGCCCCGGGCAGGTACCAAATCTCTTATCAGTCAGGGTTCAACCAGA  
GACACAGAACCCAGTAGGAGACACAAACCCACGCAGGCACAAGAAAGGAGAACAAACCAAC  
ACGAAACCCAGGGATGAGTAATCGGAGGGGAGCAGCAAGCACAGGGAAAAAGATGACTGGG  
AGTCAAGAAACTTGGGGTTCAGTCCCAGCTCTGCCCTGTCATTTTCCCTCACCTGTAAAA  
CTGGATCAGAAATCTTACAAAAACAAAAACAAAAACCTCTTCAGTATTTCCCTCAAAC  
AGGATCCTCCTCACATCTGTATTTATATTTAAAAAATAAAAAACAGAAAAGAAAAAGAAC  
AGCATGACATCATTAGGTGTGTGTACCTCGGCCGCGACCACGCTAAGGG

## Sequence 1423

CCCTTTTCGAGCGGCCGCCCCGGGCAGGTACATCATAGGACTAGTCACTTGTGCTTTCATGG  
ATACTGCCTGGGTGGGGGTTTACAAACACTTATAAGTTAGAGAGTTTGAGAGCCAGTGGA  
AGTAAGTGGAAGTTGTTCTGAAATAAGCCCCCTGGCAATTTTCTGCAATGAAAAGGAGCAG  
AGGTCAATTTTCTTATAATGCTCAGCCTCAGAGATAGAACACTGCCCGCGTACTCTGGTTC  
GGGTTCAGTGAGAGGCTTTTCATGAAAATCTTAGGATTGAAGAGCTCTAAGTTCAGGAT  
ATCTCAATGTTTCAGAAAGCCTGACTAAAAGAAGCCAAACCAAAACCATTTAATGTGAACA  
CAACCTCTTTTCTTTTAGTAAGTTTACTTTTAAATACCAGAAGTGAAAGAAAAAT

## Sequence 1424

CCCTTTTCGAGCGGCCGCCCCGGGCAGGTACTTNTTTTTTTTTTTTTTTTTTTGGGTANT  
TTTTTTTTTTTTTTTTTCTTTCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TNGGGNAAAACCATNCTTTNTNAANNNTNTNTTNNANNCATNCGGGGANAGGNTTAN  
ANNNAAAAACNTTAAANGCATTTTANNTTTTTTNAACCAAATTTTTNAAAAAANAATT  
CTGAAAAANANNTTTGGGNTTCAAATNAATTTTTTAAANCAAAAAAAACTTTCTNCNA  
TNTTTANNTTTTAAAAAANAATTTAAAAAANGNTNTTATAAAGNNGGNTTGAAAA  
NNCNNTNNTTAGAAAAATNANATTCATTTTTACNNGNTTNNNGTTTTTNGGTTAAATA  
CNNTANCTNGTTCCCTNAAAAACAANACCCCTGNCNTTTTNGTGNATNTNAAAAAATTN  
AACTTTTTCTNAAATTTTTTNGGNAAAAA

## Sequence 1425

CCCTTAGCGTGGTCGCGGCCGAGGTACTACCATCTTAACAATATTAAGTCTTCTGATCCA  
TGGCCACCAAATGTCTTTCCACTTATTTGGGTCTTCTTTAATTTCTTTCAACAATGTTTT  
GTAGTTTCCAGAGTAAAAGTTTTATGCTTTGTGGCTAAAGTTATCTATCAAATGTTT  
TCATGCTATTGTAAATGGGATTGCTTTCTTTTCTTTTCTTTTTTTTTTTCGAGAGAGG  
GTCTTGCTCTGTCGCCAAGCTAGAGGGCAGAAGTGCAATCTTGGCTCACTGCAACCTACA  
CCTCTGGGCTCAAGCGGCTCCTCGCTCAGCCTCCTAGCAGTTGGGCTACAGGCAC  
ATGTCACCCAAAAAATAATTTTTGTATTTTTGTAGAGACAGGGTTTCACCATGTCTG  
GCTAGGAAGGTCTTGATCTCTGGACCTCGTGATCTGCCAGCTCGGCCTTCAAAGTG  
TAGGATTACAGGGCNGTGAGCNGGTTTTNTTTGNTNTTGGTTTNGAAATGGANTTTT  
CCCTTTGCTGCCAAGCCCGGGAANNTGCAAGGGGTGTGNATCTTAACCTCACTGGNAAA

Table 1

CCTTCACCCCTTTTGGG

Sequence 1426

CCCTTAGCGTGGTCGCGGCCGAGGTACGCGCTTCAGGGCCCTGTTCAACTAAGCACTCTA  
CTCTCAGTTTACTGCTAAATCCACCTCGACCCCTTAAGTTTCATAAGGGCTATCGTAGTTT  
TCTGGGGTAGAAAATGTAGCCCATTTCTTGCCACCTCATGGGCTACACCTTGACCCCCGC  
GTCCTGCCCGGGCGGCCGCTCGAAAGGG

Sequence 1427

CCCTTTCGAGCGGCCGCCCGGGCAGGTACATATTGCTTAGAGCAGTGCTTTCAGATATGA  
ATCATTTCTAGAATGGATTATAGAAGGATGGGAGCTTTTAGTATTTAGTAGTTTCCTTTC  
TTCTCCCTAAGTTTACAATCCATTTTAAAAAATGAATGAATTAAGTATCTCCGAAACAAA  
CTGGCAATTGCTCTGAAGACAAGTTTAGCAATTTCCGTGAAATAATTCTCTGGCTTCGGC  
CAAGGCCACTGATTGATTTCTAAGCAAAACAACAAATCCCGTCAGGATCAGGAATGATGG  
CAGAGTGGCCCTGTTGGCTTTGTAGCTAAATTGTGCTCAGCCAGAGAAGAACCACGACCA  
ACAGAGCCCTAAACTGAAGTCCCCAATTCTGTCTACTCTACCGTGCTGCACAAAAGTAGT  
ACCTCGGCCGCGACACGCTAAGGG

Sequence 1428

CCCTTTCGAGCGGCCGCCCGGGCAGGTACAGTCTTATTTTCAGCCTAAAGAAATGGACAC  
TTCTCAGCATAGGCCGACGTGATTGGTTGTGGTGAATCCTTTTCCTAACCAGGATCCAT  
AATATCACAGACAAGGTAATATAGCACTGTGAAGGATGTGTCTTTCTTCAAATGGAGCCA  
TGAGAGATGGTGGTTTTTTAAGTTGATTTGATGTTGGATGTAAGTAAGTCCTGTGGGAGA  
GAATTTTTTTAAATAAAAAAATACTGTTTAAAAGTGTCTTCTAACTTGATCTCTACCTT  
TTCCCTCTNCACTTCTAACTGCCCCCACCAGCTACACTTTCCAGTTTGAAATAATGA  
ACAATACCTTTTGTGACAGACCAACCTTAATTTCTGTGGGCAAATGANGGGTTTTTTT  
CCCCCAACAATGAAACAAATTTTCTTTGAAAAAANTCTTCTCAAAGATGGTTCTTATTG  
NAAATAACCCCTTCC

Table 2

## &gt;Sequence 1

ACTTAATATTTATATCTTATTTTTATTATAATTTATTTATTTAACTATTA  
TTTTACTATATTTACCTTATATAATATTTTCATTTCTTCATATTTATAT  
TAAACCCNCCNNCNAATGGCTTTGCTCTGAGCTCNCTCCGGANGGCGGC  
CGAGGTACTTTTTTTTTTTTTTTTTTTTTGGACATACTGAGAGAATTG  
AATTATATGTTATGGTAGAATAAAGATCGAGGTCCATTTTCTATACATG  
AAAAATTTAAATATTTAGTTTGGGATTTGAGACTTCTATTAGGCCTCTGTA  
TTTCTTTCTAGTTTTTTCCCTACCATTCTTTAATCGGAGTATCCAAGCCC  
AATCACCCCTGTATCCTATGTCCTAAAGCATCTTGAATTGGTTGTTCAATG  
TTTTCTTCATGTGGAGTGTCTTTGCCACCCTCTTAGCCTATCTGATCC  
CACTTAGCCTCTGAGGTTCTGTTAAGTTCTCACCTTCTTTATGAATTTTC  
CCCAGCCATAATGATCTTTTTAACCTCTTTGAGCTTTTACTATTTATACT  
CTTTACCTAACCACCTAAATGGTTTTTTGTGAAATGTGAGAAGATATAAAT  
ATGAATGGATAAAATACTGTATGTACAAAAATTTTAATATTTACAATA  
ATAGCAATTTTTGTGATGGACCTTTTTAGGGAATTTTTATTTGGCTTT  
AAGGGATTAGGGTTTATGCCTAATTAATTAATTACCATGCC

## &gt;Sequence 2

TTTTCTTAGCTCATCGCGGGCGGCCGGAAGAGCAACCGAGATGAAGGTGA  
AGATGCTGAGCCGGAATCCGGACAATTATGTCCGCGAAACCAAGTTGGAC  
TTACAGAGAGTTCCAAGAACTATGATCCTGCTTTACATCCTTTTGAGGT  
CCCACGAGAATATATAAGAGCTTTAAATGCTACCAAACTGGAACGAGTAT  
TTGCAAAACCATTCCTTGCTTCGCTGGATGGTCACCGTGATGGAGTCAAT  
TGCTTGGCAAAGCATCCAGAGAAGCTGGCTACTGTCCTTTCTGGGGCGTG  
TGATGGAGAGGTTAGAATTTGGAATCTAACTCAGCGGAATTGTATCCGTA  
CCT

## &gt;Sequence 3

TTGTCTGTTGCATCGAGCCGGGCGTNCGGAGAGGAGTCTTTACTTAGAG  
TCAAGCTGAAGGAGCATCACACCCCAAAGACTGTTATGTTGTGAAATTT  
AGGCTGTGTTTTAATAATACTGATGATGATAGGATGAAATAGTAATTTAT  
TGATTACTATATCTACTATATGTCCGTAAGATAGCAGGGTCTTTATACTC  
GGAATCTCATTTGATCCTCATAGTTTTTATTGGTTATTATTATCCTCATT  
TTACAGATACAGAAACTGAGGCTTCAGAGAGGCTGTGTAATCAAGAGTTT  
GTATGCCTTTTCATCTGAGGAGGTTGAGGACAATCCCAAGTTAGAAAAATA  
AATGTCTTTAGCATTATTTTCCTTAATGTTTAGAATATTAATAAGTTAC  
TCAGATAATCTATTGGAAATTTCTTCATGGCAGGGGGAAGAGGCTAGAGTT  
GGTTTTTGGTTTTTGTTTTTGGCACAGGGTCTCACTCTGTCAACCCAGGCT  
AGAGTTTTTGGTGTGATCTTGGCTTACCGAAGCTTCAACCTTCTGGGGT  
TCTACCTCAGCCTTCCAAGTAGCTGGGACTACAGGGGTGCATCAACACGC  
CCCCGTGTACCTCGTCCGTTTAGAAATG

## &gt;Sequence 4

TGAGCCGTATGCATAGAGNCTGGCGTCCGAGGTAAGTTCCTTATCT  
ATAACATGGGGATAATATTCGTAGCTACATCGTTGTTATGAGGATCAATA  
TCTGTAAAGCTCTTAGAACATGCATTTTCTTGTACTAAATTGTAAGGTC  
TGGCAGGCGCGGTGGCTCACACCTGGTAATCCAGCACTGTGGAAGGCTG  
AGGTGGGGGCGAGTGGGGAGCGAGGGGTTGTTACTACTCCAATGTAACTGC  
TTTCTCAGAAATTAAGGCAAAAAGTCTTACTGACCATGTAAAGGAAATCC  
AACAAATTATAAACAGTCTCTGCCTTTAAGGAGCTTATAGTCTAGTTAAGA  
AACCAGACTTAAACATATGAAAAGTTAAACATTGGTCAGGCACAGTGGCT  
CATGCCATATAATCCCAGCACTTTGGGAGGCCAAGGCAGGAGGATCACCTG  
AGTGTAGGAGTTCGAGACCAGCCTGTCCAGCATGGAGAAACCCCATCTCT  
ACTTAAATACTAACTAGTTGGGCATGGTGGCGCCTGCCTGTGATCCCA  
GCTACTTGTGAGGCTGAGGCGGGAGAATCATTTGAACCCGGGGGAAAGG  
TTATGGTGAGCTGTGACCGCCCCATTGCC

## &gt;Sequence 5

GGCGGCCGCCCGGGCAGGTACCATGGAAACCCACTCTTTCATTGAAAGGA

Table 2

AATTAGGTTGAACCTCCAGGAGCCCGTCAGAGTCTGAGGAGAGGCTGGCT  
TGATGTCTAGATACGACGACAGCAAGGCTGCTTAGAGCTAACAGCGCATT  
GCCTTTCATAACCGGACTCTCCT

>Sequence 6

CATCTGTGCCNNATTTGAAATGCGAGCTTCACCGCGGTGGCGGCCGCCC  
GGGCAGGTACCTATGACCATCTTACATTATTTTATGGGTGGGGGGCATT  
GGCTGTGGAATGTGGGCAGTAACTTGACAGTCAGTAAACCGTGTGAGTAA  
CGGGTTGTTGGCATCCCCATTCTGGCACTCCTCCTCTAGGTCTCACCTAC  
ACGCTGGTTTGTGGGCGGAGGGGCGAGGTTGGTGGTGGGGTGTCCGGGCA  
CTGGCTGTGCATGCCTTCTCCTCTTCTGTCTCTTGGCCACCTTTTCCAA  
AAAGTCACCAAGTGACCAATTCTCCCAGTGTCTTCTTGGGACTCAATGCCT  
TGGGCTTGGCATTGGGTAAAGCCGACTGGCCAGTTTCATTCTGACCAAGCT  
CTATAGTAGTCCGGTGTGGACCTCTGCCCTCCCTGCTCTGCGGAAGCTTC  
CTCAGCCTTGTCTCTCACTATTACTATTGCGGGGCTGGGGGTACCC  
T

>Sequence 7

GGGCGATTTGCAGGCCTCTCCGCGGTGGCGGCCAGGTACGGATCAATTCC  
GCTGAGTTAGATTCCAAATTCTAACCTCTCCATCACACGCCCCAGAAAGG  
ACAGTAGCCAGCTTCTCTGGATGCTTTGCCAAGCAATTGACTCCATCACG  
GTGACCATCCAGCGAAGCAAGGAATGGTTTTGCAAACTACTCGTTCCAGTT  
TGGTAGCATTTAAAGCTCTTATATATTCTCGTGGGACCTCAAAAGGATGT  
AAAGCAGGATCATAGTTTCTTGGAACTCTCTGTAAGTCCAACCTTGGTTTC  
GCGGACATAATTGTCCGGATTCCGGCTCAGCATCTTCACCTTCATCTCGG  
TTGCTCTTC

>Sequence 8

GAAATGTTAGTCCACTCACGTGGCCGAGGCGACCGGATGAGCAACCGAGA  
TGAAGGTGAAGATGCTGAGCCGGAATCCGGACAATTATGTCCGCGAAACC  
AAGTTGGACTTACAGAGAGTTCCAAGAACTATGATCCTGCTTTACATCC  
TTTTGAGGTCCACGAGAATATATAAGAGCTTTAAATGCTACCAAACTGG  
AACGAGTATTTGCAAAACCATTCCTTGCTTCGCTGGATGGTCACCGTGAT  
GGAGTCAATTGCTTGGCAAAGCATCCAGAGAAGCTGGCTACTGTCTTTC  
TGGGGCGTGTGATGGAGAGGTTAGAATTTGGAATCTAACTCAGCGGAATT  
GTATCCGTACCT

>Sequence 9

TTTCTGTTGTCTGTCCGCGGGGCGGCCGAGGTACCACATGCACTGATAGC  
TCTCTTTGTATGAACAGAGCTGTGGCAGGCCCTATGCCAGGGAGAAAGTA  
AGATTGGAAAAGAGCTTACCAAGGAGGTGGCATTGCACTGTGCTTAAGG  
GGCAAGAAAAACGCTCTTCCAATCAGGAGCCACAAATGCTTGGCTGAAGTG  
CTACTGCTCTTTTCATCCTGGAGCTGGAACAGACGTCACCAAGTCAATCATG  
ATGGCTGCTGGGTGCACTGGCTAACATCTATAATCCCAGCACTTTGTGAG  
GCTGAGGGTGGGAAGATTGCTTGGGGCCAGGAGTTTGAGACCAGTTTGGG  
CAAATTGCAAGACCCTGTCTCTGCAAAAAAATATAAAATGTAGCTGAGTG  
TGGTGGCACCTGTAGACCCAGCCCCAGCTACTCGAGAGGCTGAGATGGGA  
GGATCGCTTGGGCCTAGGAGTTTCGAGGCTGCAGTGAGCTATGATTGCACC  
ACTGCACTCCAACCTGGGTGACAGAGCAAGACCTGTCTCTAAAACCATTA  
AATTAATCAAAAAAAAAAAAAAAAAAAGTACCTGCCGGGCGGTTCGTT

>Sequence 10

GGTGCGCTTACCGGGTGGCGGCCGAACATCCATGTTTAACTAGCACAGA  
CAAAACCTATGTGTTACTATCAAAATAAAATTTAGAAAAACAATTTCTT  
ATAAAATTTTCTGTTTGTATTTGGACTACATAAACTGGCTTTAAAATTGA  
GAAATATGCCCTAAAACCATTAAGGAAAAAGCCAACAGAAAGAACAAAAAG  
ATCACAGCAATTAGGCCGTTCTATTCAATTTTGCCATGAGCTAAAAATCA  
CATCTTCACAAAGTAAATTACGCCCTGTTTTTTATTCTTAAGCACTAGG  
GTTAGGATTGTGATCTGAGCTTTACTAAATCGGAAAAGAAAATCTCAATT  
ATAGAACATTTAGTTTATTTATACCTTAATGCCCGGAGAGGTAATATTTT  
ACTTTAAAATGCATAACCCATGTGACATGCTAGGTCTTCCAAAAC

Table 2

## &gt;Sequence 11

CGAAAGACCCTATCAGGGGCGGCCGCCGACAGCTACGCGGGATTGCTGGC  
CTGGTTCTCCAGGGAGCTGAGATCACTGAAGCTGTGGTCGCTGCCGTGAT  
GTGGAGGAGGCAGAGCTCAGATAGAAAAGGAGGGAGTGACACTCAAGCTG  
CAAGCAGTGACAGTGCCAGGGCTCTGATGTGTCTCTCACAGCTTGTAAG  
GTGTGAAGACAGCTTGCCCTTTGATGTGGGACTGGAGTAGGCAAAGAGTTG  
GTTCCATGCCCTTCCCCTTTGGTGGACCTTGGAAAGAACCCCTGGACTTT  
TGTTTTCTGCCAAAAGGGCAACCTGGCAATGATGTTCTGATGGTTTCGTC  
GTTAGGGCCATAAATGNNTGTAGGGAGGGTGGGGAGTAAGTAGGAACCCC  
GCAATCCGGGAATCGCATCAACCCATAGGGCCCCCTTGATTGTCTAAAC  
GACCTGAACCCCTTGTTGCCCTTCAATTTGACTAACAAATTGTAACCTTA  
TTCTCCAGTTTTCCCCAGGAGAACCGGGGGCGTTGTACCAACCCCCCTT

## &gt;Sequence 12

AGGTACTTTTTTTGTTTTGTATTTTTAGTAGAGATGGGGTTTCACCGTGT  
TGGCCGGGCTGGTCTTGAACCTTGATTTCAGTGATCCGTCCACCTCAG  
CCTCCCAATGTGCTGGGATTACAGGTGTGAGCCACCATGCCTGGCCTTTT  
TCTTTTTTTTTTTAAACGAAAAAATGTTTTTAATTGACAAATAAAAAATG  
ATGTATATTTATGGTGTTTTTTCTCTTTTGCATCATCAGTCTCTTTCTCA  
TCACTGAAACCTACAAATATTTTAAAATCTTTCCATTAAAAAAAATTTTGC  
TGATCATTCAACCTCTTCAAATTATTAAGAGATACTTACTTTGTATGAAA  
AATTTTGTGAGATGTATAATCCATTTTTTTCTGGGAAGAGAGTCAGTT

## &gt;Sequence 13

TGGGGTTGCTTNCCATCACTTAGGGCGAATTGCGTCCGAGGTACCAGGTG  
TCATTCCTGCAGCAGGATTTAACAGATGCAGATCTGGCCCCAGTGTGAGC  
ATCTGTGTTAATGGTATCAGACTTAAAGAAGGAAAGACCTGATTTGACTG  
CTGTTGGTTTTGGTAGTGTCCCTGATCCGGAGCCAGTTTTGTGGGAGGGA  
GTCCCAAAGCAGGTTTGAGCTGTGGTAATGACCGAGTTGATCCTAGAAGA  
CAAAACAGTAGAATCGTACCTGCCCG

## &gt;Sequence 14

CTTANNTTGCTGAGACTTCTATCGCGGTGGCGGCCGAGGTACGGTATTCT  
CTTAAACAAGAGCAAGCCCATGATGATGCCATTTGGTCAAGTTGCTTGGGG  
GACAAACAAGAAGGAAAACTCTGAGACAGTGGTCACAGGCTCCCTAGATG  
ACCTGGTGAAGGTCTGGAAATGGCGTGATGAGAGGCTGGACCTGCAGTGG  
AGTCTGGAGGGACATCAGCTGGGAGTGGTGTCTGTGGACATCAGCCACAC  
CCTGCCCATTTGCTGCATCCAGCTCTCTTGATGCTCATATTCGTCTTTGGG  
ACTTGGAATAATGGCAAACAGATAAAGTCCATAGATGCAGGACCTGTGGAT  
GCCTGGACTTTGGCCTTTTCTCCTGATTCCAGTATCTGGCCACAGGAAC  
TCATGTGCGGAAAGTGAACATTTTTGGGGTGGAAAGTGGGAAAAAGGAAT  
ATTCTTTGGGCACGGGAGGAAAAATTCATTCTTAGTATTGCATATAGTCCT  
GATGGGAAATACCTAGCCAGTGGAGCCATAGATGGAATCATCAATATTTT  
TGATATTGAACTGGAAAACCTTCTGCATACCCTGGAGGCCATGCCATGCC  
ATTCGCTTCTTGACCTTTTCCGGGCTTCCAGTTCCTTGCAATTGTTTGA  
TGATGGCTACCATAAGATCTATATGGCC

## &gt;Sequence 15

GAGGTACTGCTCCCTGCACGATCCAGTCAGCCCCCTGCCCGGCTGGTTATG  
TAACAAACAAGTCTGTGTCTGTGTGGAGTGTTCAGGACGAGTGGAATG  
ACTGTTTCCAAGTTCATGGCAATTCAGAAGGCCCTTCAGCCAGACTGGTT  
CCAGTGCTCTCCGATGGAGAAGTATCTTGTAAGGAAGCAACTTCCATAA  
AAAGGGTCAGAAAGTCTGTTGACCGATCACTTCTTTTCTTGGATAACTGT  
CTGCGGCTGCAGGAAGAGTCAGAGGTTCTTCAGAAGAGTGTGATCATTGG  
AGTGATTGAAGGTGGAGATGTGATGGAAGAGAGGCTGAGGTGAGCAGAG  
AGACAGCCAAGCGGCCTGTGGGTGGCTTCTTCTGGATGGTTTTCAAGGA  
AATCCAACAACCCCTGGAGGCTAGACTACGCTTGCTGTATCAGTCACTGC  
AGAGCTGCCGGAGGACAAGCCAAGGCTCATATCTGGTGTAGGCGGCCAG  
GGGAGGTGCTCGAGTGTATTGAAAGAAGAGTGGGACTTATTTGAGAAGTT  
TTTCCCTTATCAAGTAACAGAGCGGGGGTGTGCCCTGACTTTAAGTTTGT

Table 2

TACCAGCCCAATTCCGAGAGACCCTCTCCATCAAAGG

>Sequence 16

TGGTCGTTGATTCTCCCGCGGTGGCGGCCGCCCGGGCAGGACGCGGGAAG  
AGGTAATTTTAATGCCATTTTCATGGGACACTTGGGAGCTAGATTAGAAG  
AAGCCAAGACTAGAATCGGGGAGATGAGTTGCAGAGGGAAGTGGTGAAGG  
TCTGAAGGAAGGTAGGAAAAGGTCGGACACATTCCAGACATATTTAGGGG  
TGGAGGTGGTTGGATATGGGGAGTTTAAAGGGGAAGGAATGTGGGGTGAT  
CTGGGTGGTGAGTCAGTCGGTATTGGTGACTTGTAATCATTTTCGGTTGG  
AAAACAGTTTGACTGTGCGCTCTTTCATATTTTAACTTTGGAGCCTCTCG  
CCTTTCTAATTTTGTGATTCTCATTTTTACTGGTTCACTTTTGGGGTTA  
TCAGAACCCCTCCGTTTTTAAATTTTCCCCGGTTTCCAAATTTCCCTTCC  
CTTAAATATTGTTCATTTGGCCCTTTTGTAAATTTCTAAAATTTTCC  
ATTTTCAATATTTTGGATGCTGTGAAAATTTTAAATAAAATATCTGTTGG  
CAAAATTATATTGTTTACCATATCAGTCATTGGGGTTCCTTGCCCTCATT  
ACATTCTATACCCCTTTGGCC

>Sequence 17

GGGAGTCTGTGCTCATTCGGGTGGCCGGCCGCCGGGCAGGTGACTTTAG  
TCCTCACTCTGTGGGCAGGGGCATTACAGCATAGGGGTCCCTTTTGTGAG  
GGATTTATGATGGCATCACACGCAGGATTCAGAGAGCATGAATTGAAAAA  
TACATATGATTGGCTGGGCGTGAGGCTTATGCCTGTAATCCAGCACTT  
TGGGAGGCTGAGGTGGGTGGATCACCTGAGGTGGGAGTTCGAGACCAGT  
CTGACCAACATGGAGAAACCCCTTCTCTACTAAAAATACAAAATTAGCCG  
GGCGTGGTGGCACATGCCTGTAATCCCAGCTACTAGGGAGGCTGAGGCAG  
GAGAAATGCTTGAACCTGGGAGGCGGAGGTTGCAGCGAGCCGAGATTGTG  
CCACTGCACTCCAGCCTGGACAATAAGAGCGAAACTCCATCTCAAAANAA  
AAAAAAAAAAAAAATGGTACCTT

>Sequence 18

TGGCGATCGAGACCTNACCGCGGTGGCGGCCGAGGTACGATTCTACTGTT  
TTGTCTTCTAGGATCAACTCGGTCAATTACCACAGCTCAAACCTGCTTTGG  
GACTCCCTCCCAAAAACCTGGCTCCGGATCAGGGAACACTACCAACCAA  
CAGCAGTCAAATCAGGTCTTTCTTCTTTAAGTCTGATACCATTAACACA  
GATGCTCACACTGGGGCCAGATCTGCATCTGTAAATCCTGCTGCAGGAA  
TGACACCTGGTACCTGCCCG

>Sequence 19

CCGGGCAGGTACTTTTTTTTTTTTTTTTTTATTTTTTTTTTTTTTTTTT  
TTTTTTTCCCCGGGAGAGGAATTGGGAAGAGCAAATTGCTGCTGAAAAAT  
TTCTACATTGATCCAGACAAACAAGTTAGAGCAGGCTGAAAAAGAACCCCT  
TGGTGTTTTTACTGTGTTCAACCAGATCAACTGGAAAAGTATAGATACCT  
TAATTAGCACTGTGCTCTGTGGGATTCTGGTCAGCCTGGCCCAGTGGTTT  
TTTTCCCTGAACACGCCTGAAAGGGGAGCTCATAATGACTGCTGTGCAG  
GTGGGCGGGGAGGGGGCTTCCTATTGATTTAGTGGCTGATCAATGCCAG  
TTACCAATTATTGGTAGCCCCATTTATACATGGTGGAAAAAAAGTACCT

>Sequence 20

TGGGGTGTGGCTGGTAGCGCGCTTCGGCCGAGGCACCACAATTTTTTTA  
AGTTCTAAGGTAGCTTTCTCAAAGAAAACCATTTTCAGGGTGTCCATTA  
AGAGCATCTGCGAATTGTTTTGCAGGGACTCCTAATCAGTCAGGAGAAG  
TAGAATGTAAGCAAAGTCACAAACCTCCCGTAAGAATTTGGTTCACCAGG  
ACACAGCTCCTCTCTTATGAAGGGATGAGAAGCAGACCCCAAACCCAGTG  
CCACAGTCTCCCTGGAAACAGCAGCAGGCTTGGGGAATGCTTCCAAAAGG  
CTATGCCATTCAAGGTCTCAGGTTTTTTGGTTAAAAATACAACTTAGGCC  
AACTGCAGTGGCTCATGCCTGTAATTAATTCCAACCTCTGGGAGGCCCGAG  
CGGGTGGATCTCTGGGGTCAGGGTTTGAGACCAGCCTGGCCAACATGG  
TGGAAACCCCATCTCTACTAAAAATCCCTGTGGGTACATTTAATGAGGAAA  
AAAAGTCTTGGCCGCGCGGCTTTAAACTAAGG

>Sequence 21

TGGGGAACGTTGTTGACTCCGGGTGGCGGCCGAGGTACGATTCTACTGT

Table 2

TTTGTCTTCTAGGATCAACTCGGTCATTACCACAGCTCAAAACCTGCTTTG  
GGACTCCCTCCACAAAACCTGGCTCCGGATCAGGGAACACTACCAAACCA  
ACAGCAGTCAAATCAGGTCTTTCCTTCTTTAAGTCTGATACCATTAACAC  
AGATGCTCACACTGGGGCCAGATCTGCATCTGTAAATCCTGCTGCAGGA  
ATGACGCCTGGTACCTGCCCC

>Sequence 22

TTATGTACGTCGACTCACCGCGGTGGCGGCCGAGGTACAGAGTAGAGAGA  
GTTCTGCAGGGATGAAGTGGGAGACGTTGATAGGACCAGACCAGACCAGG  
CCTTGTAAGCCATGGAAGGACTTTGGATTTTACACCAAGTGCAACAGGTA  
ACTGCTGGAGGGAATTCAGCAAGAGAGTGACAGGAGCTGATTGACAATTT  
GAACGCCCCACTCTGGCTGCCATGTGGCAAATAGATTGTAGGAAGAAAAGA  
AGAAAAGGAAGAGAGCAGTTTGAAGCTACTACTGTTGTCCAGAAATAT  
GTAATGGTGGCTTGGCCAGGGTGGTGGATGNNCATAATTTTTTTATTGTG  
TGAAATTTATTCCTTATTAATTTTTGAAACAACCTACTAACTCTGAGTA  
TAAAATTTAAAGACTGGGTTTCCAAAATATGATTCCTTATTTTCATTGAAT  
GTTATAGCTCTAATTGTTCTTTTTTTTTTCTGATACATTATTTTCTAC  
TATATTACTAAATCTTAAATCTCGGTTAGAGTCTGATATATAATGGGTC  
CATTTTAAGTGTCTCTCTTTTTTACAAATTGCGTAGTAGTTTGTTTTTT  
TACTTTTAATTAATATAAGTCTTTTAATTTTTTATTTTTT

>Sequence 23

GGGTGATGAGACTTCATCGCGGTGGCGGCCGAGGTACACAGTAGAGAGAG  
TTCTGCAGGGATGAAGTGGGAGACGTTGATAGGACCAGACCAGACCAGGC  
CTTGTAAGCCATGGAAGGACTTTGGATTTTACACCAAGTGCAACAGGTAA  
CTGCTGGAGGGAATTCAGCAAGAGAGTGACAGGAGCTGATTGACAATTTG  
AACGCCCCACTCTGGCTGCCATGTGGCAAATAGATTGTAGGAAGAAAAGAA  
GAAAAGGAAGAGAGCAGTTTGAAGCTACTACTGTTGTCCAGAAATATG  
TAATGGTGGCTTGGCCCAGGTGGGTGGNTNNNTNATATAAAATTTTCCTTT  
TTACATTGTAACCTCGTCTACTATTTCTCAACCAATTATATATTGGTCC  
TCATTTAAAATAAGAACTAGTTCCCAAAAATGAATATATCTAAGGTCTTA  
CTTACCGGTATGAGAACCATTTTAACTGTTTGGCCCGCTTATATTTATT  
GAATTCATCCTATTTTGCCTGAATAGAACAAATTCGCTTCTGGGGGCCTT  
ATTCGTTATTTTCTATTTAATTGTATTCCGTCATTCAATAGTGTGGGCC  
GAGGTCAGCTTTTGTACTGTTAAGTTTTTTATCCTCCTAATATTT  
TATTGACAAAAAAT

>Sequence 24

TGGAGTATCCTCACCGCGGGGCGGCCGAGGTACAAAAAAGCACAGCCTG  
GCTCTGGGTAGAGACATGCTGACTGATGAGATCACCAAGGCAGCTGCAA  
AGGAGAGTCCGGTAGTGAAAGGCAATGCGCTGTTAGCTCTAAGCAGCCTT  
GCTGTCGTCGTATCTAGACATGAAGCCAGCCTCTCCTCAGACTCTGACGG  
GCTCCTGGAGGTTCAACCTAATTTCTTTCAATGAAAGAGTGGGTTTCCA  
TGGTACCTGCCCC

>Sequence 25

TGGGGNATGTATCAGCTCCACCGGGTGGCGGCCGCCCCGGGCAGGTACGCG  
GGAGGCACATTCTTTTCTACGTGAAGAGTTTTGTAACTGAACTTTGTTT  
TCAGTTCCGGCTCCAGCCATCCTGGGGTAGCTTGCCAATAGATGAATCCC  
ACTCGTTTGACCCATGACGCTCCTTCTTTTCATTCTCCCTCTTTCCCCA  
CAGCAGTGCATGTCCACCATACCACCTGAGAGTCTGTGGAATCTAATTTT  
CTGTTATACTTCTTTCCTTACACTCATTTTCTGTCTTTATTATGATAGT  
CTAACTTTTCTCCTCAAAGGGATAGCTGCCTTGCTTTTCATGAAAACACA  
CTTTTCTAATGGGGAATTAAAGAAGGCCTTTCCATTTTAAAGCCCCATG  
CCTTGACAGAATTTATTAATAAATAGGGCCTTTCAAAGGGGAAACCGTTC  
CAACATCGCTACAGAATGTTTTATAACCATGAAATATTTACTGGCGTTAA  
GTCCAAAATGCTGACTATCCTGGTCCGTATCCTTTCGACCACTGTTAATG  
TATAATTTTGCAGGTGAATGGTC

>Sequence 26

TGGGATGTGCCTCATCGGGGGCGGCCGAGGTACGGATACAATTCGCTGA

Table 2

GT TAGATTCCAAATTCTAACCTCTCCATCACACGCCCCAGAAAGGACAGT  
AGCCAGCTTCTCTGGATGCTTTGCCAAGCAATTGACTCCATCACGGTGAC  
CATCCAGCGAAGCAAGGAATGGTTTTGCAAATACTCGTTCCAGTTTGGTA  
GCATTTAAAGCTCTTATATATTCTCGTGGGACCTCAAAAGGATGTAAAGC  
AGGATCATAGTTTCTTGGAACCTCTCTGTAAGTCCAACCTTGGTTTCGCGGA  
CATAATTGTCCGGATTCCGGCTCAGCATCTTCACCTTCATCTCGGTTGCT  
CTTC

>Sequence 27

CTCCCTCATATTACTATTCTATCTCGTAATTATTGTTAATTAATTACAA  
TATTTTATCAATTAGTAATCTTTTCTTAATTTAACAANNANCNANNNTT  
GTCTGTTGTCGATCCGCTTCCACGCGGCGGCGCCGAGGTACGGATACAA  
TTCCGCTGAGTTAGATTCCAAATTCTAACCTCTCCATCACACGCCCCAGA  
AAGGACAGTAGCCAGCTTGTCTGGATGCTTTGCCAAGCAATTGACTCCAT  
CACGGTGACCATCCAGCGAAGCAAGGAATGGTTTTGCAAATACTCGTTCC  
AGTTTGGTAGCATTTAAAGCTCTTATATATTCTCGTGGGACCTCAAAAGG  
ATGTAAAGCAGGATCATAGTTTCTTGGAACCTCTCTGTAAGTCCAACCTGG  
TTTCGCGGACATAATTGTCCGGATTCCGGCTCAGCATCTTCACCTTTATC  
TCGGTTGCTCTTC

>Sequence 28

TGGACTGTGCGCCTTTCCGCGGGGCGGCGCGAGGTACTCAGTTTCCTTATC  
TATAACATGGGGATAATATTAGTAGCTACATCGTTGTTATGAGGATCAAT  
ATCTGTAAAGCTCTTAGAACATGCATTTTTCTTCTACTAAATTTTAAGGT  
CTGGCAGGCGCGGTGGCTCACACCTGGAATCCCAGCACTGTGGAAGGCTG  
AGGTGGGGGAGTGGGGAGCGAGGGGTTGTTACTACTCCAATGTAACTGC  
TTTCTCAGAAATTAAGGCAAAAAGTCTTACTGACCATGTAAAGGAAATCC  
AACAATTATAAACAGTCTCTGCCTTTAAGGAGCTTATAGTCTAGTTAAGA  
AACCAGACTTAAACATATGAAAAGTTAAACATTGGCCAGGCACAGTGGCT  
CATGCCTATAATCCCAGCACTTTGGGAGGCCAAGGCAGGAGGATCACCTG  
AGGTCACGAGTTTCGAGACCAGCCTGACCAGCATGGAGAAACCCCATCTGT  
ACTAAAAATACAAAAGTGTGGGCATGGTGGCGCATGCCTGTGATCCCA  
GCTACTTGAGAGGCTGAGGCGGGAGAAATCACTTGAACCCGGGAGGTCTAG  
CGGCCGACCGGGCAGGACGCGGTGAT

>Sequence 29

TGGATTATGTTGAGCTCCCCGCGGTGGCGGCCGAGGTACTCAGTTTCCTT  
ATCTATAACATGGGGATAATATTAGTAGCTACATCGTTGTTATGAGGATC  
AATATCTGTAAAGCTCTTAGAACATGCATTTTTCTTCTACTAAATTTTAA  
GGTCTGGCAGGCGCGGTGGCTCACACCTGGTAATCCCAGCACTGTGGAAG  
GCTGAGGTGGGGGAGTGGGGAGCGAGGGGTTGTTACTACTCCAATGTAA  
CTGCTTTCTCAGAAATTAAGGCAAAAAGTCTTACTGACCATGTAAAGGAA  
ATCCAACAATTATAAACAGTCTCTGCCTTTAAGGAGCTTATAGTCTAGTT  
AAGAAACCAGACTTAAACATTGAAAAGTTAAACATTGGCCAGGCACAGGG  
GCTCATGCCTATAATCCCAACACTTTGGGAGGCCAAGGCAGGAGGATCAC  
CTTGAGGTAAGGGTTTCAGACCCGCTGACCACATTGAGAAAACCCCTT  
TTTCTTAAATCCAAACCTGTTGGCT

>Sequence 30

TGGGGATGTTGCAGCTCTGTCCGCGNGGCGGCCGAGGTACTCAGTTTCC  
TTATCTATAACATGGGGATAATATTAGTAGCTACATCGTTGTTATGAGGA  
TCAATATCTGTAAAGCTCTTAGAACATGCATTTTTCTTCTACTAAATTTT  
AAGGTCTGGCAGGCGCGGTGGCTCACACCTGGTATCCCAGCACTGTGGAA  
GGCTGAGGTGGGGGAGTGGGGAGCGAGGGGTTGTTACTACTCCAATGTA  
ACTGCTTTCTCAGAAATTAAGGCAAAAAGTCTTACTGACCATGTAAAGGA  
AATCCAACAATTATAAACAGTCTCTGCCTTTAAGGAGCTTATAGTCTAGT  
TAAGAAACCAGACTTAAACATATGAAAAGTTAAACATTGGCCAGGCACAG  
TGGCTCATGCCTATAATCCCAGCACTTTGGGAGGCCAAGGCAGGAGGATC  
ACCTGAGGTGAGGAGTTTCGAGACCAGCCTGACCAGCATGGAGAAACCCCA  
TCTCTACTAAAAATACAAAAGTGTGGGCATGGTGGCGCATGCCTGTGA



Table 2

TCCCAGCTACTTGAGAGGCTGAGGCGGGAGAATCACTTGAACCTCGGAGG  
TCGAGCGGNCGCCCGGAGGACGCGTGGGATGN

>Sequence 31

GACTGATGTGCGACTCCCCGCGGTGGCGGCCGAGGTACTCAGTTTCCTTAT  
CTATAACATGGGATAATATTAGTAGCTACATCGTTGTTATGAGGATCAA  
TATCTGTAAAGCTCTTAGAACATGCATTTTTCTTCTACTAAATTTTAAGG  
TCTGGCAGGCGCGGTGGCTCACACCTGGTAATCCCAGCACTGTGGAAGGC  
TGAGGTGGGGGAGTGGGGAGCGAGGGGTTGTTACTACTCCAATGTAAC  
GCTTCTCAGAAATTAAGGCAAAAAGTCTTACTGACCATGTAAAGGAAAT  
CCAACAATTATAAACAGTCTCTGCCTTTAAGGAGCTTATAGTCTAGTTAA  
GAAACCAGACTTAAACATATGAAAAAGTTAACATTGGGCCAGCACAGTGG  
CTCATGCCTATAATCCCAGCACTTGGGAGGCCAAGGCAGGAAGATCACC  
CTGAGTAAGGAGTTCGAGACCAGCCTGACCAGCATGGAGAAACCCCATTC  
TACTAAAAATACAAAAGTAGTTGGCAATGTGG

>Sequence 32

TGGGATGTGCCCCCTCCGGGGGCGGCCGAGGTACGTATGCACTTGCTTGCC  
ATCTAAGCAGGGACAATGGCAGTTCATATCATGATGTTACTTTGATTCTC  
TGACCAAACTGGCCTGTGAGCACCTGGGCCTTTCTTCTCTGTCAAAGG  
CCTTAAGACAGGTTTACCCTGTAGCCAGGTCTGGAAGACAGAGCTGGGT  
AAAGCTGGGTGGGAGAAAGTGA AAAAGGTCAAGTTTACATTCTACGCGGA  
AAAGGATGTAACACGGGGCCACATCCTATGCCCAATCCCAAGGCAGGGAG  
GCAGGGAAGTGGCTGCCAAACCTGTTGTAGGAGAGTAATAAATGACTTGA  
GAGTAAGCCTAAGCAAACTCAAGTGGGAAGGGGAGTGGGCTGTAAATAG  
TTTAAGAGACTCTCTCAGGAAGTCAGCGTAATTGATGTGTAGAAAGGTAA  
CAGTCAACAGTCTCTCCTAACAAGACAGCTTCAAAGCAGCAGCTATAGTGG  
AGCATTCTGAGGCCTGCTGCAGATCAAAGCATGAATGTGCAGACTGGTC  
CTCTTGCCAGCGTTTCTTTCAAATCTTTGCACATGTTATATTTAGAGG  
CAAGTTCAGTTCTAGAGGAGCTGGCCTGC

>Sequence 33

TGCCTGATGTTTGATCGAGTTCGCCGCGGTGGCGGCCGAGGTACGTATGC  
ACTTGCTTGCCATCTAAGCAGGGACAATGGCAGTTCATATCATGATGTTA  
CTTTGATTCTCTGACCAAACTGGCCTGTGAGCACCTGGGCCTTTCTTCC  
TCTGTCAAAGGCCTTAAGACAGGTTTACCCTGTAGCCAGGCTCTGGAAGA  
CAGAGCTGGGTAAAGCTGGGTGGGAGAAAGTGA AAAAGGTCAAGTTTACA  
TTCCTACGCGGAAAAGGATGTAACACGGGGCCACATCCTATGCCCAATCC  
CAAGGCAGGGAGGCAGGGAAGTGGCTGCCAAACCTGTTGTAGGAGAGTAA  
TAAATGACTTGAGAGTAAGCCTAAGCAAACTCAAGTGGGAAGGGGAGTGG  
GCTGTAAATAGTTTAAAGAGACTCTCTCAGGAAGTCAGCGTAATTGATGG  
GTAAAAAAGGAACAGTCAACAGTTTTCCTACAAGACAGTTTAAAGCAGCA  
GTTTTGGGGAGCATTCCTGAGCCTGGG

>Sequence 34

TGTTACGATGCTCATCGGGGGCGGNCGAGGTACCAGTTAAAGTCTTCTAG  
CCTGTATCCCCACTCCTTTTTGCCACTTGCAAATTCGGTAGCCCAAGTTAC  
CCAGAGGGAGGCATAGGAGGGAAAACGAAGACTGAAAAGGGCTAATATGA  
GTTTTGTCTCTTACAATTTATCTGCATCTTATCCTTCCCCCAACCCCAT  
CATTAAATCATTAACATTCTATCCAAATAGGATGCCCTTCTGTGGAAC  
GCATATTTGGAACCATACTGCCTGTTTAACTTATGCACTCCACTGGGAA  
CTTACAGTATCTGTTTCCCAATACTTGCAGTCATATCAGTTACAACCG  
CTGGGTGTGTATTGGTTCAAAGGACCTACCTACAAGGTTATATCAATCC  
ATTGTCCAATTTGAGAGATTTTTTCTGAATCCAGTTAAATAATTTTTGG  
CTACACCTGGGGACACTTCCCAGGACAACAATGACTTGTAGTCTAGTGCC  
CAAGAAAGCCAAAAAGGCCCGGCAACCTTGGTTGCCACCAGATCCCCAAC  
AGACAGATTCTAAGGGAGAAGAGAGTTTATCAACTAACACTCACAGG

>Sequence 35

GGTATGTTGGNCANTTTAGAAGCCCTCTCCGCGGTGGCGGCCGAGGTACG  
GATACAATTCCGCTGAGTTAGATTCCAAATCTAACCTCTCCATCACACG

## Tabl 2

CCCCAGAAAGGACAGTAGCCAGCTTCTCTGGATGCTTTGCCAAGCAATTG  
ACTCCATCACGGTGACCATCCAGCGAAGCAAGGAATGGTTTTGCAAATAC  
TCGTTCCAGTTTGGTAGCATTAAAGCTCTTATATATTCTCGTGGGACCT  
CAAAAGGATGTAAAGCAGGATCATAGTTTCTTGGAAGCTCTGTAAAGTCC  
AACTTGGTTTCGCGGACATAATTGTCCGGATTCCGGCTCAGCATCTTCAC  
CTTCATCTCGGTTGCTCTTC

>Sequence 36

CTAATTACTCTATCGATTTCTTATAACTCTCATATGATATATTTGTTTCAT  
CTTATTCATGCTTCAATTAGACGGTTTACTATACTTTTTATTCTACCAAC  
GTACTTCTCATTATCTACTATAANNNTATAATGANTTTTTTGGCGTCTTC  
GAATCCCCGTCGAGGTACATTTGTGTTTTATTGTGAAGGGTCTCAACTG  
TGTGGCTGATTCAGGCTGTCCCCACTGCAATGTATGGAGAGGAGAGAAAG  
GGATGAAAGTGAAGGCAGGGGGGGGGATGTTTGTTCACGGGGTGAAGT  
CTGCCTGAGCAAGTTGATGTTGGCTTCCGAGGTATTTGGACACTTTCCTT  
CAATACATTTTTATTAGCACTTATTCTGTGTCTGCTGCCCTGGGATACC  
AGAGTGAATAAACAGATTAAAAGGTCCCTGCCCTTTTGGAGCCTACAGTC  
TTTTTGTAGAGAAAATTGAATTGATAAACCATACTTTTTTTTTTTTTGA  
ATTTTGGTGGGTTTTTTAAGGTTAGAACAAATGCTTAGGGTGGGAAAG  
GCCCCACAGAAAGGGGTGAGGGGGAGTTACCTTTCCCGGTGCGGCCCT  
TTTCAGGGATTAACCCAGGAAATAAAACCTTGTAGGCAAAAATGGCCCAT  
CAAAAAGGCCAAGGAACCGTTAAAAAGGCCCCCGTTTTTGTCCATTTTT  
TTCATTAGGGTTTCGCCCCCTTTCAGGGCTTCACAAAAATTCGCCC  
CTCTAAATTAAGGTTGGGGATACCCCCCAGGGCTTTAATATTCCCAG  
GGTTTTCCCTT

>Sequence 37

GGAGCGTTGAACCCNTTTTAGTAGCGCTCTCCCGGGTGGCGGCCGCCCGG  
GCAGGTACGCGGGGGCAACATGGCGGCCTTAGCAAGCTATAGCTGCGAGA  
TTTGAATTACTCCAATCGTAGCTATTGCATTCTGACGATGGCCTCTGTG  
GCTTCGTGCGATTTCGCGTCCGAGCTCAGACGAGCTCCCTGGAGACCCCTC  
TTCACAAGAAGAAGATGAGGACTATGATTTTGAAGATCGGGTCAGCGACT  
CGGGTTCATATTCCTCAGCGAGTAGCGATTATGATGATCTTGAGCCTGAA  
TGGCTGGACAGTGTGCAGAAAAATGGAGAGCTGTTTTATTGGAATTGAG  
TGAGGATGAAGAAGAAAGCCTCCTTCTGAGACACCAACTGTGAACCATG  
TCAGGTTCAAGTGAATAAGATTATCATTGAAGATGACTACCNNNANAA  
NATTTTTAAAAAAGTACCT

>Sequence 38

TGAGCGTACGAGCCCTCTCTGGGGGCCGCCGAGGTACTTAAGTTTTCTT  
CAGTTACAGCTACCATGTGAAAAATAATTCTCTGCTTATCAAGTTTACAAC  
TTTAGAATTTCTGTTTTAAAGTTTTCTCATTACTTATCACACAGTCAT  
CTTCTTTTTGCCAAACGCTATAGTAGCACATTAAGGAGACTGATGTGA  
AATCAACTCTGTGCAAAAAGTATTGGGTGCTTTGGTAGAAGTCTATACAG  
AAGACACTGGAGACACAAAAATGAATTTTGTCCAGGTGAGTTGATGTCAG  
AAAAGGCTTAATAATGGAGATGAGGCCGGGCATGGTGGTTCACACCTGTA  
ATCCCACCTGTTTGGGAGGCTGAGGCAGGTAGATCACTTGAGACCAGGAG  
TTTGAGACCAGCCAGCCAACATGGAGAATCTGTCTCCACTTTTTAAAA  
AATAAAAAATATTNTGTTCTGCCCC

>Sequence 39

TGACGTTGATTTCAGAGCCCTCACCGCGGTGGCGGCCGCCGGGCTGGTAC  
GCGGGAAAGCAAAACGACAAGCACGCCCTGAGCAGAGCCCCGGGAATTCA  
ACCTTTAAGTGGA'AACTTGGCTTCTGGTTTGCCAAGGAACCAGGGCATC  
AAACAGATGAAACAGCCTATTGTCCATTTCAACAGGATTTTTCAGGAGTG  
GGATGATCTTTCAAATTATCCACAACCTTAATTATTTAATATTTTGATAG  
TCAATTACCTAAGACACGGCATCGTCACTGACCAATCAGAAGAGATGCCA  
GTAGTTGGGCGCAGTGGCAGCACTTTGGGAGGCTGAGTGGACAGATCACC  
TGGGGTCAGGAGTTTCGAGACCAGCCTGGCCTACATGGTGAACCCCATCT  
CTACTAAAAATACAAAAATGAGCCAGGCATGGGGGGCACCTGTAATCCCA

Table 2

GCTACTTGACAGAGTGAGCCTCTGTCTCAAAAAAAAAAAAAAAAAAAAAA  
GTACCT

>Sequence 40

TGGGCGTTGACTGGATGCGCTCCCCGCGGTGGCGGCCGAGGTACAGTTTA  
GAAAACTGTGGGGCTGAGTCCTCGGGGCCGTGGGGCGCAGCGTGGCTGAT  
CACCATCATAACGGGCCTATGGGGATACATTCTCTTAGACATTTTGAAGT  
AATTAATGCTCTCGTTAGTGATTAAGTCTGTGAAGTAGTCCTTTGCATAA  
TCAAATCCATGCTTTTCTTTGATGCCATTGCGACAAACAGTGTAATTATA  
GAAGCGAGAATTCTTGATTAATCCAAGCCATTCTCGCCACCCAGGGGGGA  
TGTAAGTGCATTATATTCATTGAGGTATTTTCCAAAAAAGGCTGTTCTG  
TAGCCAGTGTGTTAAGATATACAGCAAAAGTCCGAGGCTCATGCATGGC  
CTGCCACGAGGGGGAAGAGCAGTTCTCGTTGTTGGTGTAGACATTGTGAT  
TGTGCACATACTTCCCGGTGAGCATGGAGGACCGTGACGGGCAGCACATG  
GGTTGTAGTCACAAAGGCATTGATGAAAGTGGCCCCCATGTTCCATAA  
TCTTTCTCGTTTGTTCATGACTTGCAAGGACCCAGCTCCACATCTTGA  
TCATCGGTAAGCACAAGAATAATGTTGGGTCCGATGTTTTT

>Sequence 41

TGGAGTGCTAAGCNAANTTCAGAAGCGCTCTACCGCGGTGGCGGCCGCC  
CGGGCAGGTACACGTGCACATTGTGCAGGTTAGTTACATATGTATACATG  
AGCCATGCTGGTGGCTGCACCATGGCACATGCATATCTATGTAACAAAC  
TTGCATGTTCTGCACATGTATCACAGAACTTAAAGTGTAATAAAAAAAGA  
AAGAAAAACAGCATGCAATTCAGCCACACAAAAAAGAAGTCAAAGAC  
AGCGAGAATTCTTAAACAGCAATAAAAAGTATAAAGTCACTCTAAAGGA  
ATCCCCGTTAGATTAAACAACACATTTCTTAAGAGAAATCTAACAGGCCAG  
GAGAGAATGGGATGACATATTCAAAGTGTTAAAGGGGGGAAAAAACTCC  
ACTCAAGACTACACCCAGAAAAGCTATCTTTCAGAAATGGAGATAAAAC  
ATCTTTCCAGACAAAGAAAACTAAGAGAATTTACTACCACTCACCAGC  
CTTACCAAAAAATGCCAAAGGGAGTCCTACATCTAAAGCAAAACGACAAT  
CATCACGAAAACATGCAAAAGCATAAACTAAGTGTACCT

>Sequence 42

TGGTCGGAAGAGCAACCGAGATGAAGGTGAAGATGCTGAGCCGGAATCCC  
GACAATTATGTCCGCGAAACCAAGTTGGACTTACAGAGAGTTCCAAGAAA  
CTATGATCCTGCTTACATCCTTTTGAGGTCCACGAGAATATATAAGAG  
CTTTAAATGCTACCAAACTGGAACGAGTATTTGCAAAACCATTCTTGCT  
TCGCTGGATGGTCACCGTGATGGAGTCAATTGCTTGGCAAAGCATCCAGA  
GAAGCTGGCTACTGTCTTTCTGGGGCGTGTGATGGAGAGGTTAGAATTT  
GGAATCTAACTCAGCGGAATTGTATCCGTACCT

>Sequence 43

ATTGGAGCTCCCCGCGGTGGCGGCCCGGAGAGCAACCGAGATGAAGGTGA  
AGATGCTGAGCCGGAATCCCGACAATTATGTCCGCGAAACCAAGTTGGAC  
TTACAGAGAGTTCCAAGAACTATGATCCTGCTTTACATCCTTTTGAGGT  
CCCACGAGAATATATAAGAGCTTTAAATGCTACCAAACTGGAACGAGTAT  
TTGCAAAACCATTCTTGTCTCGCTGGATGGTCACCGTGATGGAGTCAAT  
TGCTTGGCAAAGCATCCAGAGAAGCTGGCTACTGTCTTTCTGGGGCGTG  
TGATGGAGAGGTTAGAATTTGGAATCTAACTCAGCGGAATTGTATCCGTA  
CCT

>Sequence 44

CCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTCTACTCTGGAAG  
CTGAGGTGGAAGGATTGCTTGAGCCCAGGAGTTTGAGGCTGCAGTGAGCT  
ATGATCACAACACTGCACTCAAGCCTGGGCAACAGAGCAAGACCCTGACT  
GTAAAAAAATTTTTTACATTAATTTTTAAAAAGTGAGGTTTTTACCTGAT  
GATTGTGTAGGTTTCTCCTAGCTCCAAGTATCCGGCTCCTACGACTCTA  
AATATAACCTTCAAGGAAAGTGGAGCTGGTTTACTCTTTTCTGATAATAT  
CAAGCCATTCTGGCTGGGCGTGGTGGCTCATGCCTATAATCCCAGCACT  
TTGGGAGGCCCCGCGTACCT

>Sequence 45

231  
Table 2

CCGGGCAGGTACGCGGGAATTCAAGATGGATTAAAGATTAAACGTTAGA  
CCTAAAAGCATAAAAACCTAGAGAAAATCTAGGCAATACCATTGAGGA  
CATAGGCATGGACAAAGACTTCATGACTAAAACACCAAAAGCAATGGCAC  
CAAAAGCCAAAATAGACAAATGGGATCTAACTAACTAAAGAAGGTTTTG  
CCCAGCAAAAGAAACCTACCTTCAGAGTGGACCGGGCAACCTTCCCGATT  
GGGGGAAAATTTTTTGGAAATTTGGCCCTTTTGAACAAAGGGGTTATTTT  
CCCCGAATTTTATAAAGGACTTTTAACCAAATTTTCCAGAGG

&gt;Sequence 46

GGAGCTCCCCGCGGTGGCGGCCGAGGTACTCGGGAGATCGTGCCACTGCC  
CTCCAGCCTGAGAGAAAGAACTCTGTCTCTAAAAAAGAAAGAAA  
GATGTCAAGTGCTATTTATAGTAATACAAAAATTTAATGTAATTTTGTCA  
AAATCTCAATGGTATATTTTGCAGATTTTCAAATTATATATATATGAT  
TTATAAATTATTGTTATAGATTCTCGGCGGGCGCAGTGGCTCACGCCTGTAGTCT  
CATAATACCAATCTCTCGGCGGGCGCAGTGGCTCACGCCTGTAGTCT  
CAGCACTTTGGGAGTCCGAGGCGGGTGAATCATGAGGTCCAGAGATCGAG  
ACCATCCTGGCCAACAAGGTGAAACCCCATCTCTACTAAAAATA

&gt;Sequence 47

CACACACTCTTCTATTCTGCTCGCTCTATTTCTCGTGTCTTGCACTACGT  
ATCTTCTTCTCTATGTTCTTCT

&gt;Sequence 48

GACGTAGTCCTCTCCGCGGTGGCGGCCGCGCCGAGGTACAAGGACATG  
CTGGATGCCAAGCAGTTCCCCCCTACCGTCTCACTGCCCCCTCAAGACTTC  
AAGGCCACTCTCCCATAAACATCAGACTACAGATTTAGGTGGAAGAGCA  
GCCATGTTTGAAGGGCACATGTGATGAGTGGGGGGCAGCAAGATGCCATT  
TCTGCATCTCCAGAAGGGATGAGTCTTTGTCCCGATGCAAGCCCCCTAT  
TCGTTGGGCTCCAGCAGTGCTTACCTTCTACAGCGTTCACTCATTTTGT  
TCTTCCCCCAACTTTTTTTTTTTTGAACGGGGTCTTGGTTTGTCCCC  
CAGGCTTGGAGTGCCTGGACTTGGTCTCTGCTTGATGGAACCTCTGG  
CCTCCCAAGTTTAAAGCGATTCCCTTCTTGCCTTAACCTTCCAGAGTAGC  
GTGGGAATTCAGAAATACGTGCGCAACCATTCGCCGGTTAATTTTTTAT  
ATTTTAAAGAGACCGGGAATTCAACCATGGTGGGTTTAGGCTTGGTCTTG  
GAAACTCCTCACCCTCAGGTGGAAGCCACATGACTCTGGCTCTCCAAAGT  
GCTTGCCATTACAGGCGTGGAGCCACTAGGGCCTGACTTCCCTTTTCTT  
TCCTGCCCAAGGCCGAACCATC

&gt;Sequence 49

GCCCCCTTGGGGGAAAAAAGGCCAAAAGTTGTTCTGGGGAAAAAATTTTTT  
CCCTTCCCAATTTCCAAAAAATTTAAACCGGGGAAAAAAGAAAAAAC  
CGGGTGGGCCCCAAGGGGGGCCCAACCAAAATTTTGTGGGGCGCCCC  
TCCCCCTTTTAAAGGAAAAAATCTGGCCCCCTTTAATTAATACAC  
CCCCCCCCCGGGGGGGGGGGTTTAAATTCCTCTTTTTTTTTTCA  
TATATAAAGGGG

&gt;Sequence 50

GGTAGTTGCATACCGTGGGCGGCCGGAAGAGCAACCGAGATGAAGGTGAA  
GATGCTGAGCCGGAATCCGGACAATTATGTCCGCGAAACCAAGTTGGACT  
TACAGAGAGTTCCAAGAACTATGATCCTGCTTACATCCTTTTGGGGT  
CCACGAGAATATATAAGAGCTTTAAATGCTACCAAACCTGGAACGAGTATT  
TGCAAAACCATTCCTTGCTTCGCTGGATGGTCAACCGTATGGAGTCAATT  
GCTTGGCAAAGCATCCAGAGAAGCTGGCTACTGTCTTTCTGGGGCGTGT  
GATGGAGAGGTTAGAATTTGGAATCTAACTCAGCGGAATTGTATCCGTAC  
CT

&gt;Sequence 51

TGCGCTATGATGCTCTCCGTGGGCGGCCGAGGTACCTCAGCATATATTGG  
AAGTGTTTTAGAGTTGGTGAGTTCCCGTGCCTTCCAGAACTGAACGCTA  
GGAGGAGCAGCCAGTGAGGACAGACGTCTATGCAGAAACATGGGGAACCT  
CTGGAAATGACACACTCTCCGGGCACAGGGGGCCATTTCGTCCATCTTGAG  
GTGGACTAATCATGGAGATTCTCGCAGGGCCGGCTGCTATCTCAGATTTT

232  
Table 2

CTAATCGGAGAAGGAGAGAGATCAACTTCCATCGACTCCAGTCTGTCCGG  
GGCTGATGAGTGAGGTGGCAGCAGGCATCCGCGTGGATTTGTTGAAACTG  
GACTTTTTATTGTGCTGAAAGCTGCTTGTGTGATGATCTCATACTTTGT  
AGTTGTTCTATCTGCAGCACTGACTTCCTAAGGGATTCTTCCAACCTAGA  
AATCTTTTCTTCTATGGAAGGCTTACAATCTTTTCTGTGTTTTCTTG  
AAATTCTTAAAAATTGGGAGGTTTTCTGGAGTACCTGCCCCGGCGGGCGC  
TCGAAAATAATCTCTCTGCTCCTATCTTAGGTTACTATTCGGGGAGCCC  
TGGATACCCCTTTTTTCTTCCCACTGGGCCCCCT

&gt;Sequence 52

TAGTTGATGCCNATCTTTNGANGCCNCCCCCGGGTGGCGGCCGAGGTAC  
TTTTTTTTTTTTTTTTTTTTTGGCATTCTGAAAATTCATGAGGCTGTGTT  
TTAGGTGAGGCTATTTCTTCACTGAAACGGGGCACCAACAGGCTCT  
TAATATGAAGACTTGGGCCCTTCTGAGTTCTAGAAAAGCATTTTTACTA  
GTTCTTCAGTAATTTCCCTCCCTTCACTCTGTCTCTTTTCTCGG  
ACTCCAATTGGATCTTGGGCCTCTAAGTATAGGCAAGATCATGTTTCTAA  
AAAGGTTCTTAGAGGGAGGGAGTTCCCTGGGAGTGTTATGTGGGGTGGTGC  
AGAAGGTGCTAACAGGTGGGTTTCTCTTAGGATGAGCAGGTGGGATGCC  
AACTGTCAGGCTGGGACCTTCCCTCCAGTGCTAAAATGAAAGTTTTATT  
CTGGTCTTTGACATCCACACCAGAAGTCTTGACTTCCCTCCGCGGAC  
ATTATATATTTATTTTTATTTATCTATTATTTAATTCTTCTATTATCC  
TTTTTCCTATTCTATTTCTCTGGGGGAAGGGCCCCCTCGTTATAAAC  
TGGGATTAATTGGTTCCATAAGGAAAACTCTATTTTCT

&gt;Sequence 53

CACTTACTGAATTATGTCTTGACTATTATAAGTTATTACTCTATATTCAT  
TGATCTATATAATTTTATATTTTTTACACCCAACCAAGATGTTTCCTCT  
CGTTGGCGCGCCAACGGGGGTGCCGAAGAGCGACCGAGATGAAGGTGAA  
GATGCTGAGCCGGAATCCGGACAATTATGTCCGCGAAACCAAGTTGGACT  
TACAGAGAGTTCCAGGAACTATGATCCTGCTTTACATCCTTTTGAGGTC  
CCACGAGAATATATAAGAGCTTTAAATGCTACCAAACCTGGAACGAGTATT  
TGCAAAACCATTCCTTGCTTCGCTGGATGGTCACCGTGATGGAGTCAATT  
GCTTGGCAAAGCATCCAGAGAAGCTGGCTACTGTCCTTTCTGGGGCGTGT  
GATGGAGAGGTTAGAATTTGGAATCTAACTCAGCGGAAATGTATCCGTAC  
CT

&gt;Sequence 54

ACTTATTACCTACATGTTACTTCTTATCTTTGTTCTAATATAGTATATG  
TTCGAAATATTATATCATATTTTTGATATTATTTATTAATAATTTATTA  
ATATTACTNNNNNTGGTGTGTTGACCAATTTGGAGCCCTTCACGCGGAGGC  
GGCCGAGGTACACTGGGAAAATGAAGAACTTAACACATAAAAAATAGAGG  
GACAGTCAAACTTCACAGGGGGGAAATCAAGTTAAATTCAGAGCTGGAT  
TTAGATGATGCCATTTCTAGAGAAGTTTGCTTTCTCCAATGCTCTATGCC  
TTCTGTAAAACTGGCAATTTGGGAAGCATCACTGGATAAAATTTATTGAAT  
CTATTCACTCAATTCCTGAGGCTTTAAAAGCTGGGAAGAAAGTGAACTA  
TCTCATGAAGAAGTTATGCAGAAAAATCGGTGAACCTTTGCTCTAAGGCA  
CCGTATAAACTTGAGTTCAGACTTCTGATTACTCCTGATTTCTACTGGG  
ACAGAGAAAACCTGGAAGGACTTTACGATAAAACGTGTCAATTCCTTAGC  
ATTGGCCGAAGAGTTAAGGTCATGAATGAAAACTTAAGCACTGCATGGA  
ACTAACAGATCTAATGCGGAATCACCTGAATGAGAAGAGGGCACTTCGCT  
TGGAGGGGAAGATTGTCAATCCTATTACCATAGAAGGAATGGTTGAGCTG  
GGACCAGTTTTTTTTGATCAGTGATACCAAGTGTACTGCAGAGATATTAA  
GTG

&gt;Sequence 55

TCCTCCCTCCCTTCTTTGTTACATCATTTATTTATACTCTTCTGTCT  
TCTTCTCTATTCTCACTACGTTATCTCCTTCTATCGTTTCTGTAC  
AGTCGTTATTTTTINGACTNCCNNNNNTNNTTGTGTTGACCTAGCTCCA  
CCGAGGCGCGCGCCCGCCGGCAGGTACTTTGCAAGTGGATGCAGCA

&gt;Sequence 56

Table 2

TTTCGATTGAGACTCTCCGAGGCGCGGCCGGAAGAGCAACCGAGATGAAG  
GTGAAGATGCTGAGCCGGAATCCGGACAATTATGTCCGCGAAACCAAGTT  
GGACTTACAGAGAGTTCCAAGAACTATGATCCTGCTTTACATCCTTTTG  
AGGTCCACGAGAATATATAAGAGCTTTAAATGCTACCAAACCTGGAACGA  
GTATTTGCAAAACCATTCCTTGCTTCGCTGGATGGTCACCGTGATGGAGT  
CAATTGCTTGGCAAAGCATCCAGAGAAGCTGGCTACTGTCCTTTCTGGGG  
CGTGTGATGGAGAGGTTAGAATTTGGAATCTAACTCAGCGGAATTGTATC  
CGTACCT

>Sequence 57

TTCTTCTCCTCGGTGCATATAATATTTTCTTTTTTCTTACGGTCCGTGA  
GTCTATTTATTGTTTTTATTCTTTTTGATCACTAATATTATTAANNNNNN  
NNTNNAATTCCTTTGCTGCTGCACGCCGAGGCACCGATCACTCAGTTTGTG  
CAAAGGAGAAACGGCCACAGGGAATGGGCGGCGGCTTCACCTGGGGATAC  
CTGATGCCGTGTTTGTGGAAGATGTAGATTCTTGTATGAAACAGACTGGC  
AATGAGACTGCAGATACTGTATTAAAGAAAGTGGATGAACAGTACCT

>Sequence 58

TAATTTTATCTATTCATATTATTGTTTTTACTCTGCTAATTTATATTTCT  
TTGTACATCATTATTTACTTTTTTATCATATAATATTTATTNNATTTCA  
ANNATTGTTTCTGTTTCATTTGGAAGCCTCCACCGGGAGGCGGCCGCGCCG  
GGCAGGTACGCGGGCTATTGTGATTCCCACTGACCCATAGAACAGGATTT  
CACTAGTCCTATGACATGTGACTGGGCTTGGGAAGTTCGGGTGTCAGGTC  
CAAAAATCCTAAGGTGGGATCTTCGCTTGTGAAGCAAATTAATTACACA  
ACCAAAATATTGCCACATTCCTTGAGGTCTATTGACACAATGGGAACCTCAA  
CCCCTACTTAGCTTAGCATTTTTTTTTTCAAAGAGTGAAAAGTGGTCCAC  
GTAGAGCACAAATATAATTTAAGTAAAGGAAGATTAAACATATTTTTATC  
CATTTCTTATGGTGGGAAATTAACATGTTTTAGATTGAGGTCCCCCTCT  
CAGGAAACCCCTTCAACTTCGTATTATTCCTCCTGAGTAGTATGGGGTA  
GAAAATGAGTGGAAATCAGTTTGGCCACTATTTCCGAGTCTTTTGCCTG  
CAATACTTTCATCAATATTTACAATATTTCACTCCTGTTTACAGATGGGG  
ATCACATCAGGCTCAACCAAGTTACAGAATTCTTTGGGTTTTATCTGGA  
CCTTTTAATTAATAAACTAAAAGTTTTTTTTTTTACAATATTCCTGTTTTAA  
A

>Sequence 59

CACCGCTACACACTATTTTACTCGTAATAGTTTTTACTCATTTTCTTCAT  
GTTTTACTCCACACACAGACTCTTATTTCTTTATATATATTTAGATTG  
TTTTACTCTTCTTATAGTTAATATNNANCCGGGGATTGGCATCCCCCGG  
GGGCGGCCGAGGGACGCGGGAAAGATCAGTTGTTTTACCTTGGCATTCAA  
AGACTTTTCTTTGACTCCCATGGTTCTCAAAGCGTGATCCTGGTCCACCA  
CCATCAGCATGGGGGGGAACGTGTTAGCACTGCAAATTCCTATTCTCCC  
TAATTTTCTGAATCAGAAATTACGGAGGTGGAGCCCAGCAATCTGTTTTA  
ACCAAACCTCCACATAATTCTAATTAATTTATGCTTTGAGAACCCTGAT  
CTAGTTTGTCCCTCTCATTTTGCAGGCAAAGAATTGAATTCTAGAGAGGT  
TAATTGACTTGTCCAGTCATACAGATAGGTTCTGTTTTCTATTATTTATT  
TATTTATTTATTTTTATTTTATTCATTTACCCCCAGGATTCATAGTTT  
TCTTTCTAATACTCCATATTTGACTTGACTTTTTTACAAGTTGTAATTAC  
AAATAAGTCTAAGATGGGAAAGTTGTGGAAAACCTTTATAGAGAACATGAG  
ATTTGACTGAACAGTAAACATTAAGTAGAGAGGAAAGAAAGGGGTGTTCT  
AAGCAGTAGGGACCACAGTGAATAAAGGTAGAGATAGGTATGTTTAAAAA  
AAA

>Sequence 60

GCACCGCACTAGGTGGGATGCTAGCCGGATCCGGACAATATGTCCGCGAA  
ACCAAGTTGGACTTACAGAGAGTTCCAAGAACTATGGGGGTGCTTTACA  
TCCTTTTGAGGTCCACGAGAATATATAAGAGCTTTAAATGCTACCAAAC  
TGGAACGAGTATTTGCAAAACCATTCCTTGCTTCGCTGGATGGTCACCGT  
GATGGAGTCAATTGCTTGGCAAAGCATCCAGAGAAGCTGGCTACTGTCCT  
TTCTGGGGCGTGTGATGGAGAGGTTAGAATTTGGAATCTAACTCAGCGGA

Table 2

ATTGTATCCGTACCT

&gt;Sequence 61

TGGACGAATTGTTNCCGACTACCCGCGGTGGCGGCCGAGGTACACGTTAC  
TGTTCGTCGTATTTTGTAGTCTCTGTTCTGCCCTTTGGAACATCTCTTC  
GGTGTTCCTGTGGGATCTCTCTACTGCAATTCTACTTTATGTAATAATCTG  
TTCAATAAATAATTTTTAAAAAGGAGACAACAACGCCGAGGTGATCTGGA  
GGCTCCTGGAGGACCTCAGCGACTCAGGTCCAGTCCAAGGAGGGCCGAG  
ATCAGGCTGAAGGATGGATCCACATGTTTAGAGGAGATCGAGAAATGCAG  
AAGAGAGATGCAGCAGAGAAAATGCCACAGAAAAGGGGAGCTGGAGAGAATC  
AAAGCATGAGAGGAATTCAACCTGCTGTCACTGGAAGGGGTCCAGATGGA  
ACGCTTGAGAAGAAACGTGTGTAGCATCTAGGAGTAAAGACTCGCCCTGG  
CTGACAGCTAGTAAGGAAATGGGAACCTCAGTGCTGCAGCCTCAAAGAAT  
TGACTTTAACCACAGCCTGTGTGCACTTAGAAGCGGATGCATTCACAAA  
TCTTCCAA

&gt;Sequence 62

TGGGTCGTTGTCTTNTCCGCGGGGCGGCCGCCCGGCAGGACAATGATGGC  
TGTCAACTTCGTTTGTTTAAAAAAGACAATTTGAGCAGGACGACCCTCT  
CCAATCTGGGTAGCATGGTTAGCCTGTGCAGTAACAACGTAGGCTCGGAG  
GATGGGTACCT

&gt;Sequence 63

TTACTAACCACGATTGGATTATTTACTCTATGATTTTAATTATTGCATAT  
ATTTAATA

&gt;Sequence 64

GGGATCTTTTTTGTCTTNGNCGGGGGCGGTCTTCCGNCNGACNGCGGGG  
GGCGNNGGCGNNGGAGGAGAGGAGCGGCTTTAGNAGGGGGGCGCGGGCCNC  
CCCAGCAGANGNCNCCAGCAGCAGNNGNNTTTGAGGCNCCANCNCCCA  
CAGCACCGANCAAGGNNCCAGCNCNCCAGGGGACCCNNGGACCCGG  
GCGACGGCNGANCCAAACNCNGAAGGAGNCNNAACTTTTTCTCTTGAG  
CGNNGNNGNCCNCCCGCGACCCGNGCAAAGGAAGCCCAGCNGGAGGGG  
CGGNNGNANNGACGCCCCGCGGGGNCACAAACAACNNNCAAAGGAAGAA  
NNNGCCACCCACCAANCNNAGCAANACAACANAGGAANCAANACAAACA  
NAACCGAAAAACGAGGAAAAAAAAAAAA

&gt;Sequence 65

TTGTGTGTACGCGCCGAGGCGGCTGAGGGACTTTACTTTTTTTTTTTT  
TTTTTTTTGGAGGAGATGGACAGTGTCACTCTCTGATAAGGGGGTGATG  
GGTAGGTAATTTAAAGCTTCTATTATAAAATCTAGTCTCTCTGACACTG  
CCCTGTCCACTGCAGTCACATCTCCCAATACTGAAGGATCCTGAGAATAC  
GAGCGGCATGACACTTACTACGTCAATCACCATNCTCGTTGTGCCTGC  
CCG

&gt;Sequence 66

CTGTTTGCTACACGCGGTGGCGGCTGCCCGGGCAGGACCGCGGAAATCCC  
CTAACTTCCTTGCTATCTTCCCATCCCATATTTAGGTTAGATAGAGAAGT  
GTGTATGTGTGTGTGTGTGTGTGTGCTCGCACAGTGATGAACTGTAAAC  
ATAAATGAAGATATGGAATAACATCAATTAGGACAACATGACAATTC  
ATTAGACTCCTATCAAAGAGTATCAGTTCACAGTTTTTATAGATACTAGT  
ATAAAATTCAGATCTTGACTGTTTTCTGGGGATAAAGCAAGGCTTTACAA  
TTTAGCAGTCTGTAGCTAGCTTGAACAGTAAACAAACAACAGCAGAGCC  
TTAAGTGTATTTTGTGACCTAAACATGAACTCAGGGTTTCCAAATTCC  
TAACAATGAATAGTG

&gt;Sequence 67

GATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTGAAGGATAAGAAATT  
ACTGTGTCAAATTAACCCACAAGTTAAATGCCCATGTTCCAGACCTGTGGC  
TCTTAGTATCAGGCTTGTGATAGAGAAAAGGCTGCTATGAATTCTACTCA  
GTGTGCTTAGACCAAAGGAAACCACACAGGGATTTACAGGC

&gt;Sequence 68

GGGCGGGCGCTGACTTGGCGCTTGCGCATGCGGGAACCTCGGGCCTGCCAA

Table 2

GTGGATGAATGGATGGCGTCACGGCCCGGGGAGAGCCGGGGTGTGGAC  
GGGCCGCTGGTGGCGTTAGCTGGCTGACTGGCTCGGGTGGGCTGCAGGGG  
GCCGATGGCGGGTGGCGGAGTGACTCTGCCTCGAAAGCGGTAGCGCNGAG  
GCGCCCGGATGGGGGGGGGGCGCGGGGTGGTCGGGGAACGATGCCCAGN

>Sequence 69

GGTCCCATTTTCATCTTGCACCCGCATACCAGGGATTGTTGCGAAGAATCA  
GTTGTGTTATATTGTCCAAATCATCAAAGATACCCTGAGGTAAATTACTT  
AGGTTATTATTGGACATATCCAGTCGATAGAGCTGCCTTAGATAAGAAAA  
AGCATTTGGGGGCACCCGATTGATGTGGTTATCTTGAAGATAAAGCTTCC  
TCAGGTTTGTGCCTGGAAGGTTTACTGGTGCAGCAGTCAGGGAATTCCGC  
ACCAGGGACAGCTCTGTCAAATTAAGTTGAGTTGAAGAAAACTTTGTCACC  
TAAACCATGATTGTTCAACAGGTTTCCATCTAGAACCAGGCGTTTATAGAC  
TAGTGAGACCTTGAAGAGATGGTGATGAAATAGTGGATATGCGATTATCA  
TCCAAGCGTAGTTCTTCTATAGTCCTGGGCAAACCCAGGGAATTGTGCT  
AAGGTGATTACGGGACAGGAAAAGCAGTCGGAGATAGTTGCTGTCTCGGA  
ATGCTCCCTCTTCTATGCTAACTGCAGAGACAGAGTTGTCTCTAAATGT  
AATTCTCCAGATAGGGAATTTTGAAGTGAATCATAAGTGATAGTCCT  
TATGTTATTTTCTTGCAAATGTAAGTCTTTTACATACTTTTGGGAGGTTG  
GTAGGGAATTCATTN

>Sequence 70

GCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTGAATAAAAGGCT  
TTGGTTTCTCTGATGTCTTCCAATCAATCACACAGAGCTTGCCCTGATAC  
TCAGCCACACAGTCCAGCAGACCTATATAGTTTAAAGGTTTCATGTTGAAC  
AGCACTTTCAAGAGCTCGCACTCCACTGACATCTTTCAGAATATGCTGGA  
CACTTTCAATGTAACCAGACTTGAGGAGATTTTCATCTCTCTCTTTAAG  
GTTTCTGGGGTGAAAGTATGCTTTCCAAGGCTTCGTGGAACCGTTTCCC  
TTGTAAAAAGACGTTTGAAGTGATTTCTTTAAAGCCATCTTCTCCAGTT  
CCAGAATCATCCGCTGTTTCCACCTCTCCAACAAGAAAACCTGTTGTTT  
GTCATGGTCTGTGAAGGACTCGGGTCACACTTGGTATCACATTCCTTTG  
CAAGGGGATTTTCAAAGGAACTGAAGGATCACTTGCATTTGGTTTATCAC  
TTCTCTCTGGATTGAAGATAGGAAACCAGTTTTGTGGCACTCGTCTGTCC  
TCACCTTGGTTTGGCAGCTTATGCTTGCTCACGGTTCCACAGAGCAAAGA  
TTTTTCTCCACCGATCCCGGGGTCTGGCCGACGCTCTGGGTGACAAACA  
GACCTGACTAATTAGAGTTTTTCTTGCCCCCTTTN

>Sequence 71

AGGTACTTGAAGGATAAGAAAATTACTGTGTCAAATTACCCACAAGTTAAA  
TGCCCATGTTCCAGACCTGTGGCTCTTAGTATCAGGCTTGTGATAGAGAA  
AAGGCTGCTATGAATTCTACTCAGTGTGCTTAGACCAAAGGAAACCACCA  
CAGGGATTTACAGGC

>Sequence 72

AGGTACATATATCATTTTATTCAAGAGGCAGATTTTAAACGTTTTTGTA  
AAGCTAAATAACACCCAGAGTGACTCAAAAAATTTCTCAACTTTGCCCAA  
GTGAATAGTAAGTCTAGAGTTTTTGGGTTTTTTTTTG

>Sequence 73

GCGTTTGGAGCAACACCGCGGNGGCGGCTGNNNGNTCTACCGCCCCGAAG  
CACACTNGCACAAAAGGACTTTTNNNGATGGGTATGCNNCGCCCTCCNN  
GNCCAGCNGGACCANCNATTTTTCTCCTCCTCTGAGNCTGCCTTTAAA  
AGCTCATAACAGTAGAGATCAGTTGTCTCTGGTTGCAAACTAACATATA  
TTCATGCAATGGAGGNANCTTTTTCTTTTTTTGGTTTGGGNNGCGCNA  
CGCGCCCNAGAAGAACNCACGCCCCAGNAACGGGGGCGGGCAGNACCNGC  
CCCGGGCGGCCGCNCCAGAACAGGGGGACCCCGGGCGGCAGGAAANCC  
AAAACCAAGCCCAACGAAACCCGGGGACCCCGAAGGGGGGGCCCCGGGAC  
CCAGCNNANGGCCCCAGAAGGAGGGGGAA

>Sequence 74

NAATATGACTACCGCGGTGGCGGCCGCCCGGGCAGGTACCTTGTGAGAA  
GAGGAAGAAGGTGATAAGAACTAAGATCAGAGCATAGTAGAGAAAGTAGC



Table 2

CCTGTAAACAGAGGAGAAGCAGAAAAGAGAGAAGGGAGGACAGAGCTTTTA  
TTTTGCTCCAGGTTAAAAAGAAAAAAAAAGCACATTACAACCTCTATGTCA  
GTGTCTGTCCCAGGTCCTAGAACTGGAATAGACCAACCAAGCCCAACCCCT  
TCTTAAAAAGTAAGACTAGGTGCTTCCTGATTATATATTCAACTGCCTGGA  
AGCATGCAAGTAAATTTTCCTTGATGGCATTCTAAAGTTCAAACATATT  
CTTCCTAAAAATGCATTTACAAAAAATATTAAGATTGTGTTTTTTGGTT  
TGGACTTTAAAAAAAATTGTTTTCAAACCATAATTGGGGCCTACCCCAA  
AATGGATTCTCCTCCCTACAGTGGGGATTTCATTTTTCCAGTCCCCACCC  
GCTTTTTAATTTTTGATGACCTGCACCTGGTTGGGGGAGCCACTTGTGGG  
CCCTTAAAAACCAGCAATCCTTTTTGGCCCTGGCAGTGTCTAAAAAGGG  
AAAGGAACAAGCCCTTTTGGGAAGGAAAGGGAGTTAAGCCCCGGAAGGA  
AATTTTTGCTTGATAAAAAAGGATAAAGGTGGGTTTGTGCCGGAATTTA  
ATTTGGTTTTGGGTGGCCTCCCCACACACCC

>Sequence 75

TAGGTAGCGACTCCCCGCCGTGGCGGCCGAGGTGCGCGGGGAGGCGTTGT  
GGGAGGAGGTGCGGGGAGAGAGGAAGGGGCCTGTGCACTGAGCAGGCATC  
AAACATTAGTGATGGCCTTGCCTCTCAATCTGCAGTAAAGAGGAACTA  
ATCTGAAAGGGAACGATAGGACTGTGTGCTTTTTATTTTTTAAATACG  
GAGTGTGCAATTTTACTGAATCTTGAATCATGCCCAAAAGAATGAGCTGT  
CGGTGCTGCAGTCGTGACCCAGGCTGA

>Sequence 76

GGTCTTGGCTGCCTGTGGGCTTCCCCAGGTGGCCTGGAGGTGGGCAAAGG  
GAAGTAACAGACACACGATGTTGTCAAGGATGGTTTTGGGACTAGAGGCT  
TATTGGGGGGAGAGATCCCTGCAGAACCCACCAACCAGAACGTGGTTTGC  
CTGAGGCTGTAAGTGAAGAGAAAGATTCTGGGGCTGTCTTATGAAAATATA  
GACATTCTCACATAAGCCCAGTTCATCACCATTTCCTCCTTTACCTTTTA  
GTGCAGTTTTCTTTTACATTAGGCTGGTTGGTTCAAACCTTTTGGGAAG  
CACCAGGCTGTCAGTTTCTTTTGGGAAAGTGGGGTCATCGCATTTTCCTG  
CAAGGCTTCTCCTCCTCTGGTCTTTTGGGAGAACCCGGGGCTTTTTTCA  
CGGGGCTTTAGGGAAGTGGTCAGGCTGTTTTCAACCAGGAAG

>Sequence 77

CAGGACGCGGGGAGACAGCAGAAGGATCACTGGGCTGGAAGCTCTAACAG  
GCATTGCCAGCCTACGCTACCTGCAGTTTGAGGCAAGGGCAGGGTCACTTA  
CCCTGCTGTCTGAATGTCTCCTGGGACAACAGGAGGCTGCACTCACTGGC  
TGAGTTCAGACAGAAGAGGGATCATCGGACTGGAAGCTCTGGCAGGTATG  
GCTAGCCTGGTTACCCGTAGTGAGAATGGAGAGGGCCACCTGCCAGCTA  
CACAAATGTTTCCAGGACAACAGGAGGCTGTGTCCACTGACAGTTCAGA  
CCGAAGTGGAACCACTGGACCGGAAGCTCTAGCAAGTGTGCCCACCTGG  
CTTCTAGTGAGCCTTGAAACCAGCGAAACAATAATCAAAGAGCAGTTCTT  
GTCAAGAAAACCACATTAATTAGGTACCTGGCCGCTCTAAACTTATGG

>Sequence 78

ATACCGAGGCCGGGAAGGCAATATAAGATGTATAAAGCCCTCGGGGTTGC  
CCTAAATGGAGGTGTAAGCTAAAACTTCAACATTTAATTTGCCGGTTGCC  
GCCTTACCTGGCCCCGCCTTTTCCAAGTTCGGGGAAAAACCTTGGTTC  
GGTGGCCCAAACCTGCAATTTAATTGAAAATTCGNGGCCAAAACCTGCTCC  
CGGGGGAAGAAGGCCCGGTTTTTGGCGTATTTGGGGGCCGCCTTCTTTCC  
CGCTTTTCCTTCGCTTCAACTTGAACCTTCGCCTTGCCTTCGGGTCCCTT  
TAGGCTTGCGGGCCAACCCCGTATTCAAACCTTAACCTTCAA

>Sequence 79

GAGGTACTTTGGCCTCTCTGGGATAGAAGTTATTCAGCAGGCACACAACA  
GAGGCAGTTCCAGATTTCAACTGGTTTCATAGATGGGCGGGAGAATGAAAA  
CAGATGGTGCAGCCACAGTTTCGTTTGATCTCCACCTTGGTCCCTCCGCCG  
AAAGTGACCGATGTCCTTCCATATTGTTTACAGTAATACACTGCAGA

>Sequence 80

GAGATGCCGGGGGTGCCGATATACTGTGCAGAGGTAAAGGATATAGTGGC  
TACGATTACGGCCTCTCT

Table 2

## &gt;Sequence 81

TAGATAGCTCCCGCGGTGGCGGCCGAGGTACAGCCAACCCCTAGGTGTG  
GACCAGCTGAGGCAGGTGGGCAGATATGCAGAGGGACTTGGGGCTTTGCC  
AAAGGGTAAGCACAAAGAAGGAGTCACGGGTTCTGTTTCGAGGCACTGTTG  
GGATTAGGAGCCCCGAGGGACCTACTTTGCAGGAACCTAGCATAACTTTGT  
GTGACGAGACTGCACAAGACAAAGCTCAGGCAAGTGGCTCAGTAGTTGGC  
CAGCCCAGCAGGGTCCTCTGTATGAGTGTGCACCCAGCTGAAGAGAAGAA  
ATGGAGAGCAGCAATTGGAGCTTCAGGACCGGCTTGCAGTGTGGCTCCAG  
GTTATACCACCACTGCCCCAAAGCAAAAGCTAGAGAAGCAAGTGGAGAAAT  
GCTGGAGAAAGCTGCACCTACAGGCAACCAGCACTTTAAAAACCACTCC  
AGGCAAAGTAATGGAAGGAAAAAAGCCCTGCTTTTCAGTAACCTGGGCCT  
G

## &gt;Sequence 82

GACACCATACGTCTCTGTGTATGATCTCNCTAAGTCATATCGTGTAACGT  
GTACACTTACTCATTCAGCATATATNTCAACGTCAACTTCTGTTTCTCTC  
AGGTTATTATTTATACTACTTATATCTGTTTCACATCAGTAACATCGT  
CATATCTCTACGTCTTTAGTGATCTATTGTATTTCTAAGAGAGACTCCGG  
TGGCGGCCGAGTACGCGGGGAGTCAGTCTCAGTCAGGACACAGCATGGA  
CATGAGGGTCCCCGCTCAGCTCCTGGGGCTCCTGCTACTCTGGCTCCGAG  
GTGCCAGATGTGACATCCAGATGACCCAGGCTCCATCCTTTCTGTCTTG  
CATATTGGAGGAAGACAGAAGTCACCCATTAACCTTGGCCCGAACAAGTTC  
AGAAGCATTTGCCAGGGTATTATGTAATTGGGTTTTCAACCAAAAAACC  
CAGGGTATAAAGCCCCCTAAAGGCTACCTTGAATCTTATAGCTTGCCA  
TTTCCAGTTTTGGCAAAAGGTTGGGGCGTTCCCCCAATTCTAAGGGTTTC  
AAGATGGGCCAAGATGGGATTCCTGGGGGACAAGGATTTTTTTACCTTCT  
TAACCCAATACAAGGCAAGTTCCTGGCAAACCTCCTGGAAAAAGATCCTTT  
GCCAAAACTTTTACCTACCTTGGCCCAAACCAAGGAGTTTAACCAAGTGT  
TCCCCCTTTGGGAACCGGTTCCGGGCTCGCCTTTCTAAGAAAACCTTAAG  
ATGGGAATTCCCCCCGGGGCTTTTGCAAGGGAAATTTCTGATTATTCAT  
AGGCCTTTAATTCGAATACCCCGGTCGGAACGCTTTGAGGGAGGGGGGGG  
CCCCCT

## &gt;Sequence 83

GATGAGTCGAGTGCGGCCGAGGTTCCCTTGTTGCAGCTCTTTATTTCTTA  
GTCCCACTCCCCGAGGTAACACATTTCTGCTTTTTTAGCTGTTTCTCT  
AGTGTAGGTTACCTTTCTAATTTTTGATTCAATCACTTAACCACCGTTA  
CATACTACAAAATATCACTATATTATGACCATGATTATATTTCTTTCTT  
TTTCCCTTCATCAAGGAAGTTCATCAAAGAATTTTCATCAAAGTTCATGA  
TGACCTCTTTTTAAAAATTTTCTTAGTATTCTATGTAACTATTACCGATCT  
TTTCCCCACACACTTCAAAAACCTTTTTAATTATAATTTTTTACATAGCCC  
TTAGCACAAATAACCAATCCTTTTTTTTTTCCCAATAAAAAATGTGCCTT  
CGTAACCTTTGTCCTCTTTCTTTTACCTGGAATATTGCTTTTTAAGGCTG  
TTGTGCAACTTAGAAACTTATTCTTATTATTCTGGGGTTTCTTTTCCCT  
TTTTTTTGTCTGGAATCCCTTTTGCCGGAACCT

## &gt;Sequence 84

CTCTCTTTTCTCTTCTACTAGTACATCACTAGAGTATCTNTGTATTT  
TCACACTGATANGGTAAATCTGTAATAACATTATTCTTTATAATGATAAT  
AATCTAATTCATGATCAATTATCTATAGATCGAATCTATACTCTTACATC  
TCGACTCTACGATACTTTAATATAGAGATGACTCCCGCGGTGGCGGCCGA  
TGTAATATGGCCTATATGGGATAGAAGGTATTTACCACGCACACAACAAA  
CGCAGTTCCATTTTTAACTGCTCATCATATGGCGGTAACATGGGGACAT  
ATGGTGCAACCACACTTTCAATTTGATTTAACACCTTGGTAACCCCGGCC  
GCTCCTAGAAACCTAATTGGATCCCCCGGGGCTGGCAGGAAATTCGAA  
TATTCAAAGCTTTATTTTCGATTACCCGTCCGACCTTTGTAGGGGGTGGG  
GCTCCCGGGTAACCCCAAACCTTTTTATGGTTTCCCTTTTTAAGTGGAAG  
GGGGTTAAAAATTTGCCGCCGGCTTTGGGGCTGTAAATTCAATGGGCTAC  
AATTAGACCTTGTTTTTCCCTTGGTGTGGAAAAAATTAGGTTTAATTT

Table 2

CCGGCTTCCAACAAAATTTCTCCACCACCAAACCAATTAAACGTAAGCCC  
CCTGCGGGAGGCCAATTA AAAATGTTGTTAAAAAGACACTTGGGTGGGT  
GCCCCATAAAATTGGAGGTTGAAAGCCTTAAACCTTCAACAAATTTAAATTT  
GGCGTTTTTGGCGCTCCAACCTTGGCCCCCGCTTTTTTCCACAGTTCC  
GGGAAAAACCTTGGTTCGTGGCCCCAGCCTGCCCATTTAAATTGAAATAC  
CCGGCT

>Sequence 85

TTGATGTGCTCACCGCGGTGGCGGCGGGTACTTATATTACATTATGCTAA  
AATGCAACATCTTATGCTAAATGTTATATTTGGGAACAAATTGTGTA  
TATACTGATGACGTCAATGGATCATTACAATTAATGTAGGTGCCGTGGGC  
AGGAAAGCTAACTTTAGCTGAAAGCATCTGAAACGTGCTTATTTTAAATG  
GGCCCTCAAAGGAAAGGGATGAGGCCAGCCATAAAGAAAGGCTTGGCCAA  
ATATAGTTCTTGTGTTGTCAGAACAAACAAATCCCATTTTCAACAGAACT  
AACCTGGCATGCCATTCTATCCTTAGGTTCTGGCGTGCAGTGAGCGAGGC  
AAGGATGGCATTCAAGATTTTCATTCTTTGTTCCACGGGGAGGCCCTTT  
CTTTAACTTCTTGAAGCAACATATTTGGCAACAACCTTCATTTTTTT  
TCCCCGGTGCTTTACTGTTTAAAGCCCTTGGG

>Sequence 86

TGTGAGACTCCCCGGGTGGCGGCGGAGGTACATCCCTGTTTATCCCATT  
CATCCACCGAGGCCCAACAGCATGGATGATCTGTTTGCAGGGAAGCCTCC  
CTGCTCCCGTGACAGCTATCTCACCAGCTGACACTTTACCATATCTGGCA  
ACAAACTGTTTGCTCTCTTCTTGGATTTCAAATCCACCAGCTTTTACCAG  
GGCCAGGGCCAGGCCTCCCCATGCAGAAGATCTTCATTGGCTGCATTCA  
CCACAGCATCAACAGCATGTGTGGTGAGGTCACTTTCCACACTGATAAC  
TCTATCCTAGGAGTCAGCATTTTTCTGAACACTTGCAGAGATTTGCTGTT  
GCCTTCTGAACTGGAGAGACCAGGGTAGAGATACAGCCAAACTTATTCT  
GGAGGACTTCACACAGCTGACGCTCATTATTGTTTAAAAATTTGAAGTCA  
TTGTGGTTAATGGGAAATTTGCCAACTATAGTTTTCTCCAAGAGCACCAA  
TCTCTGATTTTTTCATG

>Sequence 87

GTCTTCACTTTTACTTTGTTGCTATAAGTTTTTACTTACTTTTCATATTA  
TTGCGTTTATAATTTGTTTTATTGTAGTTTAACTTGCCTTGTACTTATT  
TATATTATTGTTATATTATAATAATCGACGCTTGACTACCGCGGTGGCG  
GCCGAGGTACTCTTCAAAATTTGTCAAGGTCATGAAAGACAGCAAAAAGTG  
AAGAATTCTTACAACTAGAGGAGACAAAGATTGGAGAAGAAACAATGAC  
TGGCTGGGCACGGTGGCTCATGCCTGTAATCCACTTTGGGAGCACTTTGG  
GAAGGCCGAAGAGGACAGATCATCTTAGGTTTGGGAAGTTGGAAGACCGA  
GCCCTGTACCCAACGTGGAAGAAACCTCCCATTCCTCTACTTAAAAATAC  
CAGCAAAATTTAGTCTTGGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGT  
CCCCAGCTTACCTTTGTGAAGGGGCCTCCGTGCAGGGAGTAATTCTACTT  
TGTAATCCGGGGGAGGGCAGAAAGTGTGTTGGTGGTGGTGGTGGTGGTGGT  
TTGCCGCCCATTTGCCACTTCCAAGCTCTGGGGCAAACAAAGAAGCGAAA  
TATTTTTGTCTCAAAATTA AAAAATAGATTTTTTATATTTAGGGGTAC  
CCTGTCCCCGGGGCGGGGCCGTTTTTAAAAAACTAAGGGGTGATTCCCC  
CCGGGGCTTGAAATGGAAATTTTCGATTTT

>Sequence 88

TCGGACCGCTTTCAAGNTACAGAGGGTGGGCCGAAAAACCCCCGACCAGGG  
ACCTTATTAAAGAAATACCAAGGCCCGTTTTCCCTCTGGGGAAGCTTC  
NCCTCCGTTGCGCTCTTCCCTGTTTCCCGACGCTTGGCCGGCTTAACC  
CGGGATTACCTGTTCCTCCGCTTTTCTTCCCTTTCCGGGAAAGGCGG  
TGGCCGCTTTTCTTCAATAAGCTTAACGGCCTGGAAGGGTATTTCTCAA  
AGTTTCCGGGGGGTAGGGTCCGTTTCCGCTTCCCAAAGCTTGGGGCCTT  
GTGGTTGCCACCAAAACCCCCCGTTTTTAAACCCCCAACCAGCGGTGGG  
GCCCTTTATCCCGGGAAC

>Sequence 89

CGGTCAGGTACCGCTCAGCCTGCTTGGTTGCATCCTCCGCATGGCGAGTC

Table 2

AGCTCTGAGATCTGAAGGTCAGCATGCTTACGCTCGGCCTCACATGTGTC  
AAAGTGATTCTGGATCTCCTTAAGTCGATCCAACATCTGCAGTTGCTGTT  
TTTCCCCATTCTCCAGTTCACGTGTTAAATTCTCTACTTGTGATGCCAAA  
TGTGCTTTCTTCTTGTCTTTTCTTTCCATGCACCGTTTCACTTCCTCTAA  
CTCAAATGCCATTGCGCTGAAGTTCAGCTGCACTCTCAAAACTGACATTT  
GCTTCTCCAGGTCTGTGTTTTTCCGCTCAACCCCTTTCCTTAATCTTCAG  
ACCTCCCCCTTGGTCAACCTGATAAGTTTGAG

>Sequence 90

AGGTACGCGGGATCACAAGCAGACAAACAGGAAAGACTGAACCATCTAT  
TTGAAAAAAGTGACTTCATTCAATTGGTTTCAGCCACCCGTATCTGTAATC  
TCTCCATTCTGCCCTCTTGATTTTAATGCAGCTATAAAGGAGAGTATTTT  
AAAAGTGCCCTCCAGTAGGAAGAACAGTCACAAGGCACTGTTATATCAAT  
TCAGTGTGACACAAGCCCTGATTATTTAATAGTATAACAGCAGTGAATCA  
GAGTTCTTTTCACTGACTTTGCTGACATTTCCAGCAGCTGTATATTTAAT  
TCACAGTTAGGGGCTGAACAAACTACAGCCATTGATCAGAATGTAAGCAG  
GCATCCTTGAGCTTCTTCTAGGAACATATACAGATGTGCACAAAATTTTC  
ATTTATTACAGTN

>Sequence 91

GCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGATCACAAGC  
AGACAAACAGGAAAGACTGAACCATCTATTTGAAAAAAGTGACTTCATT  
AATTGGTTTCAGCCACCCGTATCTGTAATCTCTCCATTCTGCCCTCTTGAT  
TTTAATGCAGCTATAAAGGAGAGTATTTTAAAGTGCCCTCCAGTAGGAA  
GAACAGTCACAAGGCACTGTTATATCAATTCAGTGTGACACAAGCCCTGA  
TTATTTAATAGTATAACAGCAGTGAATCAGAGTTCTTTTCACTGACTTTG  
CTGACATTTCCAGCAGCTGTATATTTAATTCACAGTTAGGGGCTGAACAA  
ACTACAGCCATTGATCAGAATGTAAGCAGGCATCCTTGAGCTTCTTCTAG  
GAACAAATACAGATGTGC

>Sequence 92

NGCGCTTAGGAGCNNACGNCGCGCGNGGCGGCCTGNCCGNNCNGTCGCAG  
CCCCANGAGGNCACCAAGCANCCANCAACCCCTACCGNGAGNNGTGAGGCA  
ANGGCCGCCAGGCAANGGCACANCAAAANCCGGTTTTCNGCNNNGAGCAC  
NNGCACCCCGAGAAAAACAAGGNCNCAACNACNGACNNGGCCAAGAAGGGGC  
CCGCCCNNGGCCAACCNNACCANACAGNNNAGAGCTTTTTTTTTTTTGGT  
TTGAGCACCGGACTATCCTCTTGACTACAAAGTACCT

>Sequence 93

GCGATTGGAGCAACCCGCGGNGGCGGCCTGNCCGCCGCTACNNNAATCAN  
GGAANCNNNGCTNNNNGNCCAGATGCTTTGNCGNITCTTTAGACACAGNG  
GCTNNNGCAGNNAAACCCNACGTTTGAACNNGGGGGGCAGACCCCGAAGC  
NCNAGAACAGNGGACCCCGGGCGCAGGAANNCGAACAAGCNAANCANAGANA  
CCGNCGACCNCGATTTTGTGTTTTTGGCGGAGCNGNNGNNGCCCNCTCCCGA  
GGGAAAAAAGCGCGCTCNGGCGAAGG

>Sequence 94

TGCCCCGGGCAGACACAGCTCCATGAGGTACCAAGCATCCCATCACCCAT  
ACCGGCAGTTGCATGGCAATGGCTGCCAGGCAATGGCACATCAAAATCCG  
GGCAGCGTCTTGAGCACTGTGCAATTGAGTCAACAAGGTCTCAACTACTG  
ACTGGCTAAGATGGGGCCTGCCCTTGCCCAACTTCACCATAACAGTTTGA  
GCAATCTTTAAAGTGGCCTGAGCACCTGGACTATCATCTTGACTACAAAG  
TACCT

>Sequence 95

AGGTACCTGTATGATAACATTGCAGTCAAACATATCTTGTGACAGGACAG  
TTTTTTGTGGGGAGGAGAATTAGACCAAGTTCGGAGATATATTTTAGGAA  
CTAAAGGAACGTAAGATCTGGGGTAGGGGGATGAGCAGCTCCACACCCCT  
GCTCCTGTGTGAGCTGTGCGCTCCCGACTGGGAAATGTCTAACTCCATCG  
AAAACATGAGATGAGGGGCAGGGAAGGGGCTACTTCCAAGCCTTTCATTA  
TAATACTGTGTGTAACCTTTTGCATATTTTCAGAAAAGAAACCAGTAAGG  
TGGGTTCAAGTTGTGGGCTCATCCTGACTTAGAAAATTTTAAATAATTTAG

Table 2

CCCATTGAAATGTTGATAATATAAGGCATGCATGAATAATAATTTTGTCT  
TCTTTN

>Sequence 96

AGAAATGTCGCCAAACTGCCGTCTTCCCTCCTCGGCCGCTGCGACAAACA  
CCCCACAAAATGGCGGCAGCGCCGTCGCCCTAGAATCCCCCGAGTCGCCT  
CTCCCCGCGTACCT

>Sequence 97

GTATGTCGTTGAGCTCCCCGCGGTGGCGGCCGAGGTACCTTCCCCTGAGG  
AGCCCCCTTCAGAGGGGGCGAAGAGCAGTATCTTCAGAGGCCATCCAAGTT  
TTAGCATAACAAGGAGGGAAAGAGAATGCAGAGAAGAGGCTGGTGATAGA  
CAAGTTTCATGTTACAACTTGAATTGCAGAGGTCAAGAGTTAAAGAGT  
TTGGGATGGAAAGAAATCGAGAATTGGGCT

>Sequence 98

GGTTCGATGGTTGAGCTCCCCGCGGTGGCGGCCGAGGTACCAGCAGAGAT  
GGCTTCAAGATGATTTAGGACTTGGGTCAAGTAGCACTTACTGATGTAGTG  
GTTTGATACACACTGATTACCTTCTTCTTTTATTCTCTGGCATTCT  
CCTATATAACTAGCCACTTTTAAACAATATTTGTCGGCTCTTTTCTTCTG  
CTTGCTGTAAATATTAGGGTTCCTGAGTCCTTACCTAGATTTTCTTCTC  
TTCTTACTCCTGGCCTTCTTGGGAGAGTTCATAATTCACCTACTCCAT  
CTAGATATTTGTGATGTCCAAACACATCTCCACGTTAGGCTTCTATTTGT  
AGCATCAGACCCACACTTTCAACTGTCCACTAGATAGCCTCACTTGGATG  
CTCTGCAGGCCTAAATAACCTTTGCGGACAGATTAACAGGGGAAAAAATAT  
TAATAGGAAAAAATATTAGATTTTATCTGATGTTAATATTTCTATGTGG  
CATGGAGGACTTCACAGANAAAAGTGAAAACCTCTAAAGCAGTTAGATTG  
AGN

>Sequence 99

TCTCTTACACACTCTATATGCATATAATTACAATCCTGTTTATATAGTAT  
CTTTCTTAGTATATACTAACATCTATTAGTCAAAATATATATATATAGAT  
TATACTAATTATCTAAACATCCNCANTAAAGAACAGTTTCCATTCTGA

>Sequence 100

GGCGAGGGATTGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTT  
TTTTTTTTTTTTTTTTTAAATATGTTTTAATATGCATATCATCCAGGC  
AGCATAATGTTATATTTCAAAGACAGATTTATCCATTGAATTATTGTTTT  
TAAAGTTGGGATTCTCTACATAGAACATATTTTCTGAAATTTCAAGAAT  
ATTTTCAGGTAAATTAAGAATTAATTTCTTCTAAGACTATCCAATGTGTC  
TCAATCTATTCCATAATATAATCAATGATAAAGATTACATGTATCACCA  
AATTCGAGGCAGCTTAGTTGAAAAAATTTGAAACAGCTTACTGAATTCCA  
TTTGCTGATTCTGGGGGGGCTTCCCAATGGCATGTGTGCTCCTTTGGAT  
GCCTGCAGGGGTGGTCACTGCAAAGTCGTCTGTGTGCCACTGGGAGTTG  
GGAGGCGGCCTGCTGGGGTTCCCTGGGTGGCAGGATTTACACCTGCTCCT  
CCTGCTGGAAGGCTTCCATCCTGGACATCTGGATTAGCCCCCTG

>Sequence 101

CTCTTCATTTACACTCTACTGTATTGTTACTATAATATACTTATATATCT  
TTTCAGTCTATAATTTGTATCTTATAAATTTTATTATTCGTACTTTCTAC  
TCATTATTATATATATTACATATTAATATTTAATATTTTAGTTAGGAGCT  
CACGTGGTGGCGGCCGAGCCCAATTCTTGATTTCTTTCCATCCCAAACCT  
TTTAAACTCTTGACCTCTGCAATTCATGTTGTGAACATGAACTTGTCTA  
TCACCAGCCTCTTCTCTGCATTCTCTTTCCCTCCTTGTATGCTAAAACT  
TGTGATGGCCTCTGAAGATACTGCTCTTCACCCCTCTGAAGGGGGTCTCC  
TCAGGGGAAGGTACCT

>Sequence 102

TCGAGGTACCATAATAATGCAATTAACAAAATCCAGGATTTAAGGATTTT  
TATAAGATTAAAAAATGAGGTGGTGTGAGTGGGGAGAGAAAAAAG  
CAGGAAACAAAACCTGGTGAGAGGAAATGACCCCTGATGAAAGATCTTAA  
ACACCAGGCTGAAGATTTTAGATTTCTACCTATTAGAAATGAATATTCAC  
TGAGGTTTGATGAAGAGTCACTGAAGTGTCAAAAGAAAACAAGATTTGA

Table 2

GAAAGATTCTTGAGAACTCGTGCATAGGAATGAACTGCAATAAGGGCAGA  
TTAGAGAAGAACTAGGCCATGAGGGCCTAGTATCCAGAATGAGGCAGAGG  
GAGGGACGCTGGATGTGAGCAGC

>Sequence 103

TTCGACGCGAGATGAGCTCCCCGCGGTGGCGGCCGAGGTA CTCTTTCTT  
GTTTAAAGCCTCACCCTGACCAGGAAGTCTTGATAGAGCCATCTAGTAA  
TTCTTAAGTCCTACCTCATCCAACCTTGTTTTGACTCCTGCAGTGAGCAC  
AGCTTGGCCTCACCCTCCCCCTCTCTATGCCCTCACCCTTGCAAGGAGACTC  
TCAATTTCTCAGTCCACATCAGCTCTCAGACCACCAAAGCAAGGGTTATT  
TTTTCTAAAAGACATTTGTTCCTCAATGTTCTCTGACTAAAGTTCCCTAC  
TTTGGGACATTTGGCCTTGGCACCTCAAGGGCCCTTCAAATACGGTTGAG  
ACCGAAAATTTTTTAAACTCTAAAACAACCTTTGAAAAATTGAATTTGG  
TGTAATTCGCCCCGGTGGAAGACCCCCCGCCCCCTCTTTTTTGGGGCTAT  
ATTTTCACCTTACCCCCGGGGGGGGGGGGGGTCCCCCAAAAAATCTCAA  
TTCCCTTATAAATTTTCAGCGCGTGGACACACACTTTCTAAATCGCGCGC  
GGGGTGGGGCGGTCTATTTCTTTCTCTCTCTCTCTTGTGTGGGGGGC  
CG

>Sequence 104

TCGAGTGGATGAGCTCCCCGGGTGGCGGCCGGGACACGTAACAGGGTGGT  
TGCATGCATTCTCAAGTCTGTATGACTCTACCAAGATACTGTGAAG

>Sequence 105

GACGATGTGAGCTACCGCGGTGGCGGCCGCCGGGCAGGTA CTCTTCTAGG  
TATATCATGTGCCCTAATGTGCTCCTAATATCATAAATGTTTACTTTCCG  
AAAAGTATTTCTGAAAGGGAGCATATTTTGAAAGTGATAGGCTTGTA  
TCATACTTGTTTTCAAGTTTCAACTTTGCTATTCAACTAGAATAATCTTG  
TGCAAAACCTGAGCTGATTTTCTCATCTATAAAATGGAAACAATACTTTC  
TGTGATAATGGGTGCAAAACACAAGGTATACTGGTTTCTTTGCTCTGGAT  
TCAAGTTTTCTTCTTAGTTTCAAAATTTTAAAGGGAAACCAAAAAATGTT  
CATGGCCCACTTTGCAGAAAAGGATTTTCTCAAAAAAGAAATTAAGG  
GGGGGTTTTTTTATGGGACCCAAAAGGCGTTGTGGCCAGTTTTAGTAATT  
TTATAAGTTTTGGGACTCCTCTAACACCTTTTATAAAGCGCCCCCTTGG  
GTGGGGGGGGTTATTTTGGGGGGGGGGGTAAAAAAAATTTTTTTT

>Sequence 106

TTTTGCGTGAGCACCCTCGTCCGGTAGTGGGCAGCGATCAGGGCTGGGG  
CTCTTTCTGAGTTGTGTGAGGTGAGAGATTGTGAGAACTTGGCTTGCAG  
GGTTTGGGCATCAGCTGCCATTGAGGGGCGGTTTCTTGTCTCAAAGTGA  
ATGTGGGGTGGTTTGATCTGCATGTGTCAATTTGTATCCACACAAGTTAAT  
TATCTGCTTTTGTGTAGTACCTTGGTTGTGAAGCAGAAGCTACCAGGC  
GTCTATGTGCAGCCATCTTATCGCTCTGCATTAAGTAAGATGAGGATTCA  
CTCTTAATTTATGGGCACAATTTAGTTTCTTCCACACAAATTTAGGCCTT  
AACTCTTTTATTTTTTCTACAGTGGGGGTTTGGAGTAATATTCATACGG  
CATGGACTTTACCAAGATGGGGTATTTAAGTTTACAGTTTACATCCCTGA  
TACCTCTCCAGACCGTGACTGTCCAGTAGTTGGAGCACAGTCTGCTTTAT  
TGTGGTCCACAG

>Sequence 107

TGTTTTTGTGGTCAACCACGCGTCCGAAATAATTGCAGAGAAAGCTTGCCA  
ACGGTGATAAGTAGGTTTGTCTAGCAGCACTGATGCGTCGTGGAAGTTGA  
TGGTCATGAACATACAGTGTGATAACCTATCTGCCCTCTTGACCTTTTCT  
AGTAGTGCTATGTCAATTTTGGTACTAAGGTAGGTGAATTTTCCAAGTGT  
CTTGGAATAAAGGAAACATCAAGAATAATGTAAAAGCCTCATATACAATA  
ATGAATAATAAAGAATAATGTGAAGGCTTCAATCAAGGTTGGGGTTTGCC  
AGATACATTGCAACAAAATGACAGAGCAGCCAAGGTATTTAGGATAGTGG  
CCAAAGGATTGTAATGATGGCTTATGGAAGTGTCACTGGATAAAGAGTG  
AAAATGAATAAAAACTAATGGATTGGTTCAGTCGAATAGCAGACGGCACA  
ATGGCCCATGGCCCGTTAGAATAGGGACCCAATTAATGGAGACCAAGTCA  
AGTGGGGGGGATCAT

Table 2

## &gt;Sequence 108

TAAATGTGCCACCGTCGAATGGATTCTACATCAGGTGTCTGTGCCTCGC  
TGCTGAAGGATAACCCAGAGTGCAAGGTCATCTTTGTTGCTGAACAGGGC  
TGGACCTGTGCACTTAAGCACACTTAAAGGATTCTATTCTTCATTTCAGG  
TCCCCAGAGAAAATTGGCTCCTTATTTTTCTTTACCTATTCTAGACTTC  
CTTTTGTCTAGAGCCAGTTTGGCAAAGGGCACTTTTATCCATCTCAGTTA  
TTCCCAGAGGTGACAGAATGAGTAAACCATATGGGGCAAATAGCATATAT  
GAGCTAAACCAGTTAACTGTTAACCAAGGCACATGGTCAATGCCTTAGTA  
TTTTTTTTTTTAAATCTTCTAACGGTATTTCTAGCTGTACATTCCTAAA  
GGAATGGGTGGAAGCAAATCGATTCTGGAAGGGTCAATGGTCTTCCAGGT  
TAGGGAGAACCCAGTCCAAGGGCCGGGACCTTTTTCTTGAAGTGCTG  
AAACCCGAGTTTTTC

## &gt;Sequence 109

GAAAAGATGTGGAGCTCCACGCGTCCGAGACACTTCTCTGACTAACCAT  
AGACTATGTGGAAAATGGTAGCTGGATTGCCTTTGGGTGGAGTCCTTGCC  
CTGTGGCATAGGAAACAAAGGAAAGGAGAGAGATGCCCTTTGAGATTAAT  
GAAAATGCTCTCAGCCAAATAAAATCTAAAAATAGCCTCCTTGTGATACG  
AACGCGTGGCCCTAAGGGTCTAAAGAGAGAGCTAGGGGAGGTTTCAGCT  
GGCCACAGAGATGCTAAAGGTCAGGAGCAGACTTTTAGGGTTTGCTGTTT  
TATAGGTTTAAAGACCAGGTCTGTGTTTGTATAACTGAACTTGCTAATAG  
CTGGCCACTTGAGTTGCTTCTTCCAGCTCTTTGTTTGTTTAAATAAAGA  
GATTCAGCCAGTAATAATGGGAAGAGCTGCAAATGACTTCCCCAGTTGGG  
AGTGCCTGCTTGTTCCTTCTGCCTGGGCATGCTGATGTGCAGGCCAC  
ACTCACAGACTTACACGTCTGAGGAGATAGCCC

## &gt;Sequence 110

TGTTTGCACGCCGTAATACACTCCTCTGTTTTTACAGTGCTGCCTGCACT  
GTGACTAAGACTTTCTGGACTATCATCATGTTTAGGAGTTGATGAGATTA  
TAGTTTCATGTAAGTGTATCATTAGATGACAACTCTACATCTTTAGGCAT  
GGAACAAACATTTTTCTGGAAGAAAAAAGTGAACATCCAACCTCCA  
TTTAAACAAATTTGATTGTTTCTTTGCTATTAAGAACTCGGTGCTCTTT  
CTCCACTCTATTATATTGTCAAATACATCTGGAGACACTATATAAACT  
TTTTCTCCTTTAAATTACCTGGTTTATATATTATCTCCTGTAGCCTGCAT  
ATAGATAAAGGTTAAACATAGAGGATTTAGGTTGTTGGTAATTTAATAAA  
TATCTTCTTTTACAAATCATATAATTTTTGTTGTTGATTTTTTAGAGAC  
AGGAGTCTTGCTATGTTGCCCACTAGTTTGGAATGCCTGGCTTTAAAG  
GGAATCTTTACCTTAGCTTTTTGAGTAGCCGGCCTACA

## &gt;Sequence 111

GTTTGAGGGCGACCACGCGTCGCGGGATTGGACCGACGCAGCCATGGTAG  
GTCCAGATCCCGTAGAAGGGAGCGGGTCCCATAGGTTACGGCCGATTCC  
TGGAGCTTCTGGACTGAGGGCCGCGGTAAGCAGTGGTCTGGGCTCCCGC

## &gt;Sequence 112

GTAAGAGGGCGCGTGGCCGAGCGGTTTGCAATCGCCAGCTCGCGCAAGGCC  
ATGAGGTTGGTCTGGGTGAAGAACGCATCGATGGCGGCACGGGCCTGTTT  
CGGCACGTAGACCTTGCCGTACGCAGACGCTCCAGCAATTCGCGCGATG  
GCAGGTGATCAGCAGCAGCTCATCGGCTTCTGCAAGACCCAGTCAGGC  
AAGGTCTCGCGCACTTGACGCGCGGTGATGCCGCGCACCTGGTTCGTTGAG  
GCTTTCCAGATGCTGGACGTTGACTGTGGTGAATACGTTGATGCCGCGCAG  
AGAGCAATTCTGAATGTCTTGCCAGCGCTTTTCGTGGCGGCTGCCGGGG  
GCGTTGCTGTGGGCCAGTTCGTCCACCAGCACCAGGTTGGGCTTGGCGGC  
GAGCAGGCCGTCTAGGGCCATTTTCTTCAGCATCACACCGCGGTATTTGG  
AGCGCACAAACGGGTTTTGTGGCAGGCCGCTTACCAAGGCTTTCGGCTTG  
GCGCGGCCCTGGGTTTTACCAACCCCG

## &gt;Sequence 113

GGAGATGTGCCACGATCGGGCGCGGCCAGCCGACTGGACCCCTTAGCCT  
CGAGGCCTTTGCTGAAGCTCATGTGAGGGGGCGACTGCCCTGACAGGTG  
TTGATTCAGCTGCTGTGGCCCTGAAGGTGGGTGGTGGGAAGAACGGGA

Table 2

GAATGAAGCCAGCCTTGGGAGAGGTAGGACGCCAGCCCGGCCAGCTGCT  
TCCAGCATCTGGATCCAGCCTCACCTGAAGCCAGCCACCTTCTGGACTGC  
AAAGTCATTGTCAACACCGAAACACAGGGTTTCTGACCATTGCAACCCAG  
GGTCCCGGCGTGTCTGGCTGCAGACCCTGCAGACCCCTATGAAGATGGT  
CCTGCCTGCCTTGCATCGGGCCTCTAGCTAGGGACTGTGGTTGCAGACGT  
ATTTCTGGGACTGAGCCTCTGGTTAGAGGCCAGTGGTGAGGGAAGAGAGA  
CCATCAGAGAAAAGAGTGGAGCCTCGGGCTTGTTAGCAAATGGCAGAAAC  
CCGACCCTGCAAGAGGAAAACATTG

>Sequence 114

TGGAGATGTGGATTGAGCTCACCGCGGTGGCGGCCGAGGTACGCGGGAAG  
CAACTGTCAGCTAGTGAGATTACTGTGTATGGCCAATCCAGATAAATAAG  
ACGATCAAGTCTTTATGAAAAGGAAAGAAAAATTTGGAATGCACATCTCT  
GTCCAGCTCAATTCCTCACTCCTTTTTTAAGATGGAGAGCTGTTAGGTTT  
GTCTACACAGTAGGAAACACCTGATTAAATAACAGCATGGAGCCAATCTT  
GACAAAGAAATTGGCTGCATCCAATAGAATCCAGGGCCGGTCGTGGTGG  
CTCATGCCTGTAATCCCAACACTTTG

>Sequence 115

TACGTATGACTCACCGCGGGCCGGAATCGTTGTACCAGACCAGGCCCCCA  
GGGCCCAGCTACTCGAAGAACAGCCAATGGATTGGAACGTCCTAGGACAG  
ATGCCACGGCTTTGACCCAGGCTGGGGGTGCACGGATCTCACTGGGGTTA  
GTTGGTCGGAGGGGGAAGCCCCATGGGTCCACCAGGATGAGGTGTTTAAC  
TCTATCAGGGTACCT

>Sequence 116

GGTGATGATGAGCTCACCGCGGTGGCGGCCGGTAGCGCCGGTAGGCGGTG  
TGGACCAGGGGCTCGTCGGTGGCGGCCAGCGAATTGGTGACGACGCTGAT  
CTTCACGTTGCGCCCGCGGATCTCGCGCATCACCTCCAGCCCCGTGGCAC  
CCGGAATCAGGTAGGGCGAGACGATGGTCACTTCGGAACGCGCGCGGGCGC  
ATCTGCTCGACCAGTTGTAGCGCACGCTGTCGACATCCAGCAGCGGCAC  
GCCGCCGTACGACGCGGTCTTGCCGATCACGCGGTACGGCGAATCGGCAT  
ACGCCTCGGCGGTGGTCCAGATCAGGCCGAGCTTGCCGGCGTTTGAGGTC  
TTCGACCATCGGGCTGTAGCCGAGCAGGGTCGTTGGGCGCGGGGGCTTCG  
CGGGGCCGNCGTTGGTGTGCGGGGGCCCCGGGGCCGGCGTTCAAAACCGCTT  
TTGCAAATTCTTGCGCGGGCAAGGTTGGTCGCCAACAACGACTGGGGAA  
TCGGGCCGCTCTTGAAACAGGGTGGGATC

>Sequence 117

GATGATGAGCTCACCGCGGTGGCGGCCGAGGTACTCTAATGGAGCCACTC  
AGGACTGTCTTAAAAAGACAAAAATACCTCCTACAGTTGTTATCATCAAC  
GTCAGTTGCTGGCTTTTCTAAATTTGTCTTCTACCTCAGATCTAAACCA  
TTTGATAACATTAGGGCAATATCATGGCAATCGTGGCCCAAGTAAAXCCAT  
AGCAAATGTTTTCTCCCTAGGACACTATCTGTTTTACAGGAAAATTTTT  
CTCATAGAAAACTGTAGGAAAAGCCATGGATGAGCTGAGAAGACCAAAC  
CTATCTCTTGAAAAACAACAGTAGGGAGCGTGGATTAGAATGTCTTGGGT  
GCGTGAACACAGGCAGACAATCCTGAAACATCTTTTCTGGGGACGTAAGGC  
ATGAAAAATTTCTATACACTTAGGAGGGCTTCTAGGAAAACAGGAAACGAC  
AAAAATGGAATGGGCTTCATTCAATTTTTTTTAAACACATGCCTTACAG  
GTGAGGTTCTTGAGGGGCTTGAGAAGAACACCAACCCCTTTCAGCT

>Sequence 118

TGTAGATGACTCACCGGGTGGCGGCCGAGGTACGCGGGGAACCGAGGCAG  
CAGCGGACGTGAGCGATAATGGCGGATATGGAGGATCTCTTCGGGAGCGA  
CGCCGACAGCGAAGCTGAGCGTAAAGATTCTGATCTGGATCTGACTCAG  
ATTCTGATCAAGAGAATGCTGCCTCTGGCAGTAATGCCTCTGGAAGTGAA  
AGTGATCAGGATGAAAGAGGTGATTTCAGGACAACCAAGTAATAAGGAACT  
GTTTGGAGATGACAGTGAGGACGAGGGAGCTTCACATCATAGTGGTAGTG  
ATAATCACTCTGAAAGATCAGACAATAGATCAGAAGCTTCTGAGCGTTCT  
GACCATGAGGACAATGACCCCTCAAGATGTTAGATCAGCACAGTGGGATC  
AGAAGCCCCTAATGATGATGAAGACGAAGGTATTAGATCGGATGGAGGGA



Table 2

GCCATCATTGAGAACGGAAGGTTCTGAAAAGCACATTCAGATGATGAAAA  
GGGGGCAGAGAAATAAAA

>Sequence 119

TAAAGCGACCGCGGTGGCGGCCGAGGTACCTGAACACCAGGCTCTTTACG  
GTCCCTGGCCAGTGAAAGGGTCTAATATAAAACACACCGAGGCTGAAATA  
GCCGCTGCTTGTGAGACCTTCTCAAGCTCAATGACTACCTGCAGATAGA  
AACCATCCAGGCTTTTGAAGAAGCTTGCTGCAAAGAGAAGGCTAATGAGGT  
GCTGTGCCATTGTGTATGTCTGCAGATTTCCCCAGGGTTGGGATGGGTTT  
ATCCTACAACGGACAAGATGAAGTGGACATTAAGAGCAGAGCAGCATACA  
ACGTAACCTTTGCTGAATTTTCATGGATCCTCAGAAAATGCCATACCTGAAA  
GAGGAACCTTATTTTGGCATGGGGAAAATGGCAGTGAGCTGGCATCATGA  
TGAAAATCTGGTGGACAGGTCAGCGGTGGCAGTGACCTGCCCGT

>Sequence 120

AGACTGACCGCGGTGGCGGCCGAGGTACCGAGCTACCAGGCTGTGGAATG  
AGACCGGGAGCTTTTTTCGTGCTAAGATGCCGTACGGAAACATCGCTGTC  
GTTTCAAGAGCTATGGGCATTGTTTACA

>Sequence 121

TGATTAGATGAGCTACCGCGGTGGCGGCCGAGGTACAAGTTTATGTTTT  
CCTTGGTGTAAAGGCTTTAACAGTTCCACCTTTTCAGCTGCCTGGGCATTG  
ATTGCTCACCTACCCTATGACTAGATATGATTCCATGTGCTTTTGACTA  
GATTCTTTGTCTCTTGTGTATGGAAAGTGAGACTTTAAGTAATAGTTACT  
GCTGAGAGAAATAGAAGACGTGACAACGTTTGCTTTCCCATTCAGTAGTC  
AGCGGTTGAATGGAATTATCTTCGTTTTTGGACTGACAGATTTGTTTTAC  
AATTCAGCTATTCCCAAGCCTTACTATTCAAAGCAGAACCCTTCTGTCTT  
CTTTCTGTAGTTGCTCTCTCTCCCTATATTCTGTTGTATTTTTTTCAAAT  
AACTTATTACTATCTCAAGTAAAATTGTTTTATGTTTTGTTTTATCTAC  
CCTCTTAATCAGGGCAGGGATATGTCTGTTGTATATTTTACTTTTCCCAA  
ATCATAAAGTTTTTTGGGAATCTGCTGGTTATTA

>Sequence 122

AGGTACACACTGGATCTCCTTACTCATTTTTTAACCCTGACTGGGACACCA  
GAGACATGCTGCATCTTGTATTAGGTGTTTCATCTTGCAAGATGGCTGTG  
CTCCTGAAATATTTTCTGTGAAGAAAATTGTTACAATCCCATTACATCAC  
TGGCTTTTATTATTAATTTGAATGTTGGCTGGAAACAATTTTAACCCCAA  
ATTGTGACAAACAAAACCTATATGGAAAAGGTCCCTGCCCG

>Sequence 123

GTTGATGCTCACCGGGTGGCGGCCGCCGGGCAGGTACGCGGGTGTGCAA  
CTGCAAACCAGTAACCTGCTATGGCCAATTGTGAAGAGATGGGAGTCTCC  
CCGTATTGCCAGGCCGGTCTCAAACCTCTGGGCTCAAGCAATCTTCCCG  
CCCCACTTCCCGAAGCCCTAGGATTACGGGAGTGAGCCACCGCACCCAGC  
CAGAAAAACGTTTCAAATATTGAAAAACCTTACTTTTTTCAATGAGCATT  
TTTGCATCAAGGGGTAACAGGGACATTAGGCTTTTTTCTCTTAGACTCC  
AAACAGTAAGGTCAGAAATTTATCAAGACATTACATAGGAGTAAGGGCACA  
GCCAGGGGTGGTGGGNGGAAGGACATTTTCCAGCACTAATTAACAGGTT  
TTATGATTCACTAGGTTGGCCCACTACTGTTCTCACCTAATTTCCAGGC  
CAGCGTGTGAGGAGGCCAAATGACACTNTCCAGTGCAAGTGCTTGTAGTA  
TGAAGGGGGCAGAGATCACCTAGTGACCA

>Sequence 124

AGAAATGTCGCCAAACTGCCGTCTTCCCTCCTCGGCC

>Sequence 125

TTAGAGATGAGCTCACCGCGGTGGCGGCCGCCGGGCAGGTACAGACTTT  
CATTCAACAAATATTTATGCATCAGCTACATGCCAGGATCTGTAATAGAT  
TCTGGGTGTGAGTAGTGATTACTGCAGAATGCAGACATGGTCCCTGCAT  
TCTTGAGAGGGGAGACAGCAACCAAATAAACAAATTACAAAAAAGTATGTAA  
CTAATTAACAAGTGGGAGAAGGGAGTGGGATTACACAGCAGAAGTGGAAAG  
GAAGGGCCCACTTAGAGTGGTCAAAGGCTTCTTGAAGGTAACATGTAAGC  
TGAGACCTGAAGAAGGATGCAAAAGGGCCAGCATGTAAGGAACAGAGAAT

245  
Table 2

AAACATCCCAGAAATAGAAAATAACACACAAAAACCTAAAGTCATTAAAG  
AACATGATCATCTTTCAAGAACTAACCCCTTGAGATCAGAGTAGTTTGATT  
ATAGAGGAAAGGGGTGAGTGCAATGAAACGTTAAAAATAGCCAGATCACG  
TAGAGCTCTCTAGCCCTTTGGTAGAAAAGG

>Sequence 126

TTATGATGATTGAGCTCCCCGCGGCCGGAAGAGCAACCGAGATGAAGGTG  
AAGATGCTGAGCCGGAATCCGGACAATTATGTCCGCGAAACCAAGTTGGA  
CTTACAGAGAGTTCCAAGAACTATGATCCTGCTTTACATCCTTTTGAGG  
TCCCACGAGAATATATAAGAGCTTTAAATGCTACCAAACCTGGAACGAGTA  
TTTGCAAAACCATTCCTTGCTTCGCTGGATGGTCACCGTGATGGAGTCAA  
TTGCTTGGCANAGCATCCAGAGAAGCTGGCTACTGTCTTTCTGNNGCGT  
GTGATGGANNAGGTTANAATTTTGGAACTACTTCAGTGGGAATTGTATT  
CCGACCCTCGGCCGGTTTTAGACCTAGGGGGATCCCCCGGGCTTGAGGA  
AATTTCGATTATAAGCTTAATGGATCCCCGCCCACTTTAAGGGGGGGCCCC  
CCCCCAATTTTTTTTTCTTTTAGGGAAGAAAAAACCCCCGCGGAAA  
AAAGGGAAAAATTTTTTTTCGGGGGAAAAATTTTCCCTCCAAAATTTCCA  
AAAAAAAAAAGGGG

>Sequence 127

ATATGGCTCACAGCTCGGCGGGCGGGTACTGAAAGTGAGGTGAAAAACA  
AGAAAGCTGAGAGAAATCAACATGTTCCCAAGTGCTGTATGTGAACAATA  
AATCTGAGACATACCTCTAAGGCTTTTCCAGAGACAAGAAAGCTCTCAAC  
CTGTAAAGAATTCCTGGGACATGACTGAGAGCAATGAGAAGTCCAGGCAG  
AAGGTTAGCAGATATAGTGTAGAGCATACACAGATATACTATAGTTCATA  
ACACTGGTGGCTTAGCTGTAAATCACAAAATAGCACTGGAATTATACTAG  
TGATCATAGCACATAGTCCAAGAAGAAAAATTTTGATCTTGTTCTTAAA  
CTTTGTGGAGCCAGTGGTGAAATGAGTCACACAAAGATGCAACAATGNAT  
GAACCCAGCCCTCTTTAGACTAACATATTCTTGCCCATCACCAACATAT  
TACAAATAAAAAATCAAGACACATGAAGGAGCATACCTTTTTCTGAAAGAAA  
TATTGCTTACCTCAGTCTCTATGGNTATTTGATGCAAAACACCCAGCATG  
CAATTTGAATCAATAAGACATGGAAGGGGAGCAAAATGTAACCTCATGCTA  
AAGAAAAAAGAGTGAGAAAGAGACAACAAAAGCAGATCCAGAAATGT  
TAAAACCTGTGCATTATAAGGGAGGGAGCTTTAAATACAATATTNTAATT  
TAGAACATCTAGTGAAAAATGTGATCAGATTTATCAAGTAATGGAATTTGA  
ACAGAGACGTAAAAATGCTATATTTACAATNCATATTTTATATAAAAAGAG  
TTGTTAAAAATAAAATTGTA AAAACAATGTTTCAAAAATAAGATTATGTN  
GATGGCTTACAGTTGAATAAT

>Sequence 128

GTGAAACAATGCTCATAGCTCTTGAAACGACAGCGATGTTTCCGTAACGG  
CATCTTAGCACGAAAAAGCTCCACGGTCTCATTCCACAGCCTGGTAGCTC  
GGTACCT

>Sequence 129

GAGACTCACCGGTGGCGGCCGCGCCGCGCAGGTACAGTCAAGGCCGAAAAAC  
CACTGAGCTTTTCCCTCTGCCTGGCACATATCCACTGCCCTGCCTTCCTT  
CAGCTGATGAACCTTTCATATGCCTCCTTTTGGGTGTCAAGTGGAAATGTC  
ACTTCTTTCTAGAAGCTTCTCTGGCTCTCCCAGCCTGGCCCAGGGCTCCA  
GCTATGAGCTTCCATAACACCCCTAGTTTTCCTCACATTGCCCTCATAGT  
ATATGGAATTTGTTCAATTCAATTGCCTGGCTTCCAACAGATGCCAGCTCC  
AAGAAGGCAGGAGCTGCTTCTGGGTATTGCTTGCCATCAAGGCCCTCACA  
CCCAACCTAATGCCTGGGCCAGAGTAGGTGCTTAATAAAAAAATTGTTTGA  
GGCCGGGCGTGGTGGCTCACGGCTAATAATCCAGCACTTTGGGAGGCCAG  
GCAGGTTGGATCACGAGATCAGGAGATTGAGACCATCCTGGTTAACACAG  
TGAACCCCGTCTCTACTAAAA

>Sequence 130

GAGACTACT

>Sequence 131

GACAGTGAGCTCACCGCGGTGGCGGCCGCGCCGCGCAGGTACCTATCTGCAG

Table 2

AACGGTCATTAGCAGTTTTTCCAAACAAGCGACTTTTAGCAAATTAACCG  
TTAATTTTAAATGAGATTCAAAAGTTAATAGCCATTCTTAACGTTTTATAA  
TTAGAAGCTGTTATATAATTAGAGCTGGACACCCACATGGAGAACTAAT  
TTGACTGTGCTGCATTTGACTTCACTTTGGTAACAGGAAGCACTTTTTAG  
TCTGTAGACCCCTGGGAGTTGTAGGGAGTTAAAGCTGATCATTATATACT  
ATTATATACTTAGGGATACAACCCAAGGGCAACCCCTGGCCTTTATGAAA  
ACCTGGAGTGAGTTATTATTTCTGGTAATACAATTCTCTGCCAGCCAGT  
TGCTGCATCAAAACAGTTCTGATACACACCTAAAGTCACCACTTCCTC  
ATTCTGGTCCCCAATAACCTATAAGCCTCTCTCCTTGTAGGTGACCTCT  
GCCCTGTGAAGGGTTGGCTCACCCCAAGATTCCATAAATAAGTTG

>Sequence 132

ATACGACTCCCGCGGTGGCGGCCGAAACCGTGGTGGCCGTGATCGTGCCG  
TTGGCGGACGGAACCTTGAAGATGTTCTGGGCGGCCAGCACAATCGCCGC  
CTTGCCGACGATGACATTGTTGGCCTTCAGCCCGTCAATATCGCCCTGA  
TGTCGATGTTCTGGCTCTCTCATCATGGCTCAGCGCAATGGCGGCGTTC  
GCCTTGCCGGTCGCCTCCACGAGGAACAGGGCTGCGGCCGTGACACATC  
GCTGGACGCGAGGGTCAGGTTGCCCTGAAGCAGCCCCCTTCTTGCTCTGGG  
TGACATCACCGCGCAGCCGCGTGGCGCCGCAATGAACTGGATATTGCTC  
AGGCGTTTTTCGTCCTTGTGTCAGGGCAAGTTCCGTGGCAAGATCGGCCCG  
CACGCCGTGCGAGGAACGCCAGACCGGATACCTTGCCGTCCGCGCGTCTT  
GACAGAAGTCCGTTGAAGGAGAACGCGCCTTCTGAGCTTGCCCCGAAA  
GTTTGCCATCCGGAACCCGGCATTGAG

>Sequence 133

GATATCGAGCTCCCGCGGGGTGGCGGCCGAGGTACGATAATTCATGCCA  
ATTTCTTTGGGAATACTTGTCTTGATATAATAGGTTACAAAGCAAAAT  
GAGATGATTTTTAAATGCCATGCAGTTATTTTTCTGAATAACATAAAT  
TTTAAACAGAGACCTGAAAAAAACCCCAAAAGTATTAACCTTTAAATACA  
TAAACTCAATAGAAATAATTTAACTGCCTTCTCTTCAAGAGGCAATCA  
GAAGGCAGGACTATAGTTTTCTGTGTTTTCTTTCCACAGGAGAGATAAT  
ACATTTCTAGAGACCCATAGAAACAATTCATAGTTTTAATTTCTCTCT  
CTATCTCTAAGGGTGTGTCCAGGTATCTAACAGCAATTATCTTACATTGC  
TGAATCAACAACAATGATATCACTGAAGAAATACAGGGAGACCCAAGCTT  
CCTTGGATTGGCCCCCAAAATTTGGTGTAACATTTTAAAGGAATGGCT  
TAACTTAAAGAAAGGGAAATTTCTTTTTGAAAAAT

>Sequence 134

TAGAGATTGAGCTCCCGCGGTGGCGGCCGCCCAAGTGTTGGGATTACAGG  
CATGAGCCACCACGACCGGCCCTGGGATTCTATTGGATGCAGCCAATTC  
TTTGTCAAGATTGGCTCCATGCTGTTATTTAATCAGGTGTTTCCTACTGT  
GTAGACAAACCTAACAGCTCTCCATCTTAAAAAAGGAGTGAGGAATTGAG  
CTGGACAGAGATGTGCATTCCAAATTTTTCTTTCCCTTTCATAAAGACTT  
GATCGTCTTATTTATCTGGATTGGCCATACACAGTAATCTCACTAGCTGA  
CAGTTGCTTCCCGCGTACCT

>Sequence 135

GGAGAGAGGATGAGCTCCCGCGGTGGCGGCCGAGGTACCTCTCCTGCAG  
GGCCCTCCATTACAGGGTCTTCTTGAAAAACCCCTGGAGGAAGCGCTCCT  
GTTGCAGTCGGAGTGAACACCCGTCTTGTTTAACCACCAGCAGGGGGATT  
CCTTTCTGGAGAGTCCATGTAGTCATCATCTCTTTGACCTCTGCATTTTC  
CCCCAGAAAGGCGAGCATGTTACTTGTATCTTGGGATCCGAATGACAAA  
CTCCACCAGATGTAAATCACTTTCTAAACAATA

>Sequence 136

GACGTTGAGCTCCCGCGGTGGCGGCCGAGGTACTTAAAAGTATATCAGGG  
CAGTTTCATGCCAGGGAGCCAGGGAAGGCACCCAAGGAAGTGATGGAAGA  
GTAGAAAGTTACCAAGGTGCAGCTCAGGAAAGGGCTCAGCAAATTTCTCTG  
TAACAGGATGCAGACCCCGCGTCTGCCCCG

>Sequence 137

TGTTTGTGGATTGACACGGGCGGCGGCCGAGGTACTAAATTTAGCAACTT

247  
Table 2

TATTCATGAGGAACACCAGTCCAATGGTGGTGGCTCTTGTCTTCATGCTT  
ACATGGATGAACTCTCATTTTTGTCTCCAATGGAGATGGAGAGATTTTCT  
GAGGAGTTTCTTGCTTTGACATTCAGTGAAAAATGAGAAAAATGCTGCTTA  
CTATGCTTTAGCAATAGTGCATGGAGCGGCTGCTTATCTCCCAGACTTCT  
TGGACTACTTTGCTTTTAATTTCCCCAACACTCCAGTGAAAAATGGAAATT  
CTGGGCAGGAAAGATTTTGAACCAACCCCTTTTAAAAATTTTAACTAGG  
GGAAACGGGAATTTTGGGGGGGGCCCCACCCGGGGGTGTCTTTTGGGGGA  
AAAAATTTTTTTTGGACAAAAAATGGTGGTTTTTTCCCCC  
CCCTTTTTTTTTTAAAAAAACCCCTTTTTTAAAAATTTTTTTTTT  
TTTTGGCCCCCCCCGGGCCTCATTAATAAAAAACAACCCCGTCCCCGT  
TATTATATATTTTTTTTTCCCCCCCCC  
>Sequence 138  
GGTGAGTTGAGCTCACCGNGGTGGCGGCCGAGGTACTCGGGAGGCTGAGA  
CAGGACAATTGCTTGAACCTAGGAGGTAGAGGTTGCAGTAAGCCAAGATC  
GTGCTACTACACTCCAGCCTGGGTGACAGAGTAAGACTCCATCTCAAAAA  
AAAAAGAAAAAAATTGACTTTGGAACCTCAGATTACATATCAGTTTGCAT  
ACATGCTAAACAGAGAAATGTCTCAAAATTCAGTTACTAAAAATTACTG  
ATATCTCCATGATTAGAACCACACTGTGGTTGTGTGTGTAGTCAAAGGAG  
GAGAAATTTTAAATGCTATATAAGCATAACTGATAACTGCTATTACAAATA  
AATATTCACAAATTTGGAAAGTTATTAGAGGAAGAATTTTTTTCCTTG  
TAATTTCCAGGTGTTTATATTAGTTGGGCCATAGTGAAAAATTACATGGAG  
GAAAGAAAAATAGGAAAAATAAGTCACAGAAAAAGAAATCAAAACAAATAG  
GAACTTTGGGGAACAAGTGAGGTAATTTCTGCTCT  
>Sequence 139  
AGCCCAATTCTTGATTTCTTTCCATCCCAAACCTCTTTAACTCTTGACCT  
CTGCAATTCAAGTTGTGAACATGAACTTGTCTATCACCAGCCTCTTCTC  
TGCAATCTCTTTCCCTCCTTGCTATGCTAAACCTTGGATGGCCTCTGAAG  
ATACTGCTCTTCACCCCTCTGAAGGGGGCTCCTCAAGGGAAGGTACCT  
>Sequence 140  
GAAAGTAGGGATTGAGCTCACCGCGGTGGCGGCCGCTGTGAAACAATGCT  
CATAGCTCTTGAACGACAGCGATGTTTCCGTAACGGCATCTTAGCACGA  
AAAAGCTCCACGGTCTCATTCCACAGCCTGGTAGCTCGGTACCT  
>Sequence 141  
TTTTGTGATAGAGCTCCCGCGGTGGCGGCCGAGCCCAATTCTTGATTTCT  
TTCCATCCCAAACCTCTTTAACTCTTGACCTCTGCAATTCAAGTTGTGAA  
CATGAAACTTGTCTATCACCAGCCCCCTTCTCTGCATTCTCTTCCCCCT  
TGTTATGCTAAACCTTGGATGGCCTCTGAAGATACTGCTCTTCACCCCTC  
TGAAGGGGGCTCCTCAGGGGAAGGTACCT  
>Sequence 142  
CTGCCGGGCCCCATTTGATTTAAAAAGAATTGGGCCCCCCCCCGGGGAGGA  
GGGGGTTTTGTATTTTGGGGGCTTTTCCCTTTTCAATTAATAAAAAACCG  
GGGCCCCCGGTTTTTGGGGGTGGGGGGGGGGTTTTTTTTTTCTTAAGGG  
GGGGTTTTTTTTTCTCTATAAAGGGGGTGGGGCAAAAAAAAAAAT  
TTTTCTAAAACCCCCCTT  
>Sequence 143  
CCTTTTTCCGTTTTTCTCTAAAAAGACCCTTGGGCTCGGGGGATTGGGTG  
GGGGGGGGGGTTTTTTCTTTTAAAGGGGGGGTTACCCGTTTTTCCCCC  
AAATAGGGGGATCCCCCGAAAAAAATTTTTTAAAAAGCCCCCA  
>Sequence 144  
GTGTGGCGTTGAGCTCCCCGCGGTGGCGGCCGTTGCCCTTACATCTCTCA  
TTTGAAGTGACAGGTATTAAATAACGGCATATGAAAGCTTAAAGTCAT  
CAAATACAATCACTGGGTACTTTCGATTACCCAAACCAGGCACTTTCCTA  
AACTCCCCACTTCTTACTTCTGCGGTCTCCTTTCTTTTATTCCCCCGCG  
TACCTGCCCC  
>Sequence 145  
GAACGATGGGATTGAGCTCCACCGCGGTGGCGGCCGAGGTACCGAGCTAC

Table 2

CAGGCTGTGGAATGAGACCGTGGAGCTTTTTCTGTGCTAAGATGCCGTTAC  
GGAAACATCGCTGTCGTTTCAAGAGCTATGAGCATTGTTTCACA

>Sequence 146

TGGACGACGGAATTGAGCTCCCCGCGGTGGCGGCCGTTCTGCTTAGCCAG  
TTTATTCTTTATTTTTTTTACTGGAGTCATTGCCAGTGATGGAAACGGTGT  
TTGCTTCTCTTTCAAGATCTGCACAAAGTATAGCATTAGGTGGTAT  
TTATTGTTTATATTATGAGTTCTACATTCATCTTTCCAGCACTCTGAAGT  
TATCAGCAAGTTCTCAGTCAGTTCAAGGCATTGGATTCTGCTTGATTCT  
TTTTAATTCATTGTTTTTGACCCCTTTGAGAGTTTAAATAGAGAGGAGTC  
TGGAAGGCAGAGATCTCCACCACCTAACCGTGAGAAATTTGGAACCTAAGG  
ACTTGCACCTGGTCCCCAAGTTAACAGTGGATATACTTCTGCATTTTCTC  
TGGTCTTTCTTGCAATTGGGCAAAATGAATGAACGGGACCAGAAGGCCCTC  
ACCCCTTGTGGCATTTCAGTGGACAGGACTGGGACCCGGGATTGGTTA  
AATAACCCGAAAAACGG

>Sequence 147

TGAGGATGAGCTACCGCGGTGGCGGCCGCGCCGGCAGGTACCCAAGGTG  
GGCATTTTTTAAAAAACCCATGGAAATAAATGCTACTTCTTGTTAGTGT  
TGTTTGAATAAACAAGAAATGCAAAACAAAACAAAACCATGGTCCA  
TTCAAGCTCAAGAGTATTTAACCAATGCTCTGTTGCTCTTAAAGGATTG  
GTAGCTATTTCCCATCTACAAATACATGACAATTAAGCCCAATTC  
TTTAAACTATCTGGAATTAGGTCAAAATTATCTAATTTTTTCTGATT  
AATTATGGATTACGTAATCCAATAGTTGGCAACATTATAAAACCCCTAAT  
TTACCTCATTGTTTGGCTATACAGGTCTCATGACTCTGGACATAACCA  
CATCCTTNCCTCCCAACACCNCGCTACTCAAAGTAAACCCGGAGCTTCA  
TGATAACCATGAGGCCCGCAGCTTCTGNCTCAAAGCTTTTCTGGCCTAAC  
TTCCGCTGCTTCTTCTCACTCGGCGTTTAAACTGGT

>Sequence 148

GGAGGACTCACGGGTGGCGGCCGAGGTACCTATGTGCGCGGTGGTAGAAA  
AGCACTGGGTGCGGTGCAGACTGCGGAGCGGGCCCTACCGTGTGCGCAG  
AAAGAGGAGGCGCTGGACTTATCCTACCTTAAGTTGAAGCAGACCAGCAA  
TTGTTGTGACCTACAATCTCCACACCCATCTTTACTCTGAGCCAAGGAAG  
TGTCTGTTCTTGTGCTGAGTTTCAGGGGGCCTTCAGCTTGGCGGAAATCCC  
GAAGATGGCCAAAGACAACCTGAAGTGTTCGTTGCTTCCAGGGCCTGCTGA  
TTCTTGAAATGTTGATTATTGGTTGATGCGGCATTGCCCTGAGTCCGAG  
TGCATCTTCATTGTATNTGACCAACACAGGCTCTACCACTGCTTTGAAG  
CCACCGACAACGATGACATCTATGGGGCTGCTTGGATCGGATAATTGGTG  
GGCATCTGGCTCTTCTGCTGGCCGGTCTAGGAATTGTAGCATATGGAATT  
CCACAGGAAATTCTCTGGCGAATTCATCTGAGGTTAT

>Sequence 149

TGCGTGTGGATTGAGCTCCCCGCGGTGGCGGCCGAGGTACCTTCCCCTG  
AGGAGCCCCCTTCAGAGGGGTGAAGAGCAGTATCTTCAGAGGCCATCCAA  
GTTTTAGCATAACAAGGAGGGAAAGAGAATGCAGAGAAGAGGCTGGTGAT  
AGACAAGTTTCATGTTTCACTTGAATTGCAGAGGTCAAGAGTTTAAAG  
AGTTTGGGATGGAAAGAAATCAAGAATTGGGCT

>Sequence 150

TTTGTGATTGAGCTACCGGGTGGCGGCCGCTGTGAAACAATGCTCATA  
GCTCTTGAAACGACAGCGATGTTTCCGTAAACGGCATCTTAGCACGAAAAA  
GCTCCACGGTCTCATTCACAGCCTGGTAGCTCGGTACCT

>Sequence 151

TGAGCTAGTGACTCCCCGCGGTGGCGGCCGCGGCCGAGGTACTTTTTT  
TTTTTTTTTTTTTGTTTTTTGTTTTTTCTGTCCCCTCTGAGCCATGGAA  
GATACTGGAGTTAACAAAAATTTATAAACTAAAGAAAGCAACTTTATAA  
TCTAAAAGAAAGCAACTTCCCTCCTGTCTTTTGAATTCTTATTCCTGAA  
AGAATGGATAATGAATCAGGAGATGAGCAAAAACGTATCTTTTACAAAGC  
TCTAGTCTTCCAAAAGCCTCTAAACTCAAACGAAACCTTTTAAAGTAGT  
TTTGTAAGGCTCAAGGTATGCCATTTCCAGAAAGTTGCAGATGAGCACC

Table 2

ATTGGCATTACCCAAATTCTGTACACATTGAGCAATGAAATTCAGGAAT  
TGGACAATGACCTCTTGGCATATGAAAGAATTAAGAGAGGGCTAGGGCTT  
GGGCAAGGGATCTAATCGNGAGGGGATGTTGCTTTCCGAGGCTTCCCTTC  
CTTCTTCTTTTCTGGCTTTCAGGTAATGAAGAAA

>Sequence 152

GAGGGTCACCGGGGCGGCGGGTCCACCTAAAAAGTCACTGCAGCAGAGA  
AGAAAACATTGGACAAAGAAGAAAGGCGACAGAAAGGCTAGAGAGAGGCAG  
CAGAAATTGCTTGGGAGTTTGTCTTACGACAGAAAGGCTTTATGGAAAC  
TGCAATGGATGTTGATTCTCCTGAGAATGATATTCCTATGGAGATCACCA  
CGGCAGAACCACAGGTTTCCGAGGCAGTATATGACTGTGTTATTTGTGGA  
CAGAGTGGCCCCCTCTCTGAAGATCGACCTACTGGATTAGTTGTACCTGC  
CCG

>Sequence 153

CATGGCTCCCGCGGTGGCGGCCGAGGTACACCTGCAACTGTGCGAATGGT  
CCTGTTGCCTCCTGCATTTTGGCCTCTGTTCTATAAAGGAAGAGTAAAGA  
TGGAGCTCCTCCTGCCTCCATCACGAAAGCACATATCATCTGTCCCTTTG  
GATTTTACTTCCAGGACGCGTGTCTGCTCCCGAGCGTGTGTTGCCTTATGGT  
GCCGGCAGAGCCTCAGCTATCTGCCTGGGAAAGTCGGATGTCTTGGAGAG  
AATTTGGAATGCAGATAATTTTCTTATTTCTTGAGAGCTTACTTTAATC  
AGCATGACACTACCTAAACACTGAAGATGGCCTTATATTAGTAAGATTTG  
CACAAAATTAAGTATACCTATGCAAACTATTACTTTGGTTTTTAGGAGTT  
TGGTCAGATGAAGAAGTAATGGGATCACATATATGTAAGAAGACAACC  
ATCATTTATTTTGTAAAGTGTTTATTTAAACCAACTGGTTAACTTGTGAA  
ACACAAATAGAAGTCGTATTATTAAGGTCC

>Sequence 154

TTTTGCGTTGAGCTCCACCGCGGTGGCGTCCGGCCCCCGCCTTTTCTGCG  
GCTTTCAGCGCGGCTTTCAGGTCGTCAATGAGGTCGTGCGGCATCTTCGAG  
ACCGATGGACAGGCGGATCGTGCCCTGGCTGATGCCTGCGCCCCGCCAGCG  
CTTCGTCGCTCATGCGGAAATGCGTGGTGCTGGCCGGGTGGATCACCAGG  
CTGCGGCAATCGCCACG

>Sequence 155

TATAGCGGACTCACCGGGTGGCGGCCGCCCGGCAGGTTAAAAAGAACAT  
GTATAAACGCTTAGCAAACCTTTTTAATGTTCTGAAGTCAGTCTTTGTA  
AGTGAAATCGCTGGAGACTAGAAAGTATGAAATGGCAGTCTACCTGGGCA  
ACCTACAAAAAATTTAGCTTGAAAAGACTTCAGTCTCCGCTCCCCTGTTG  
ATCTCATGGAGTGGGGAATGGGAATTGAACCAGAACTGGAAAAATTATTA  
GGAAAGTTTGTAACTACTCTTTGTTGATCTCATGGAGTGGGGAATGGGA  
ATTGAACCAGAACTGGAAAAATTATTTGGGAAAGTTTATTAATACTACTTT  
CTGCTGAGTAAATTTAAATGTGTTCTGGACATTGTTGAGGTCTAGAATTG  
TCTATACAATGCCCTGTACCT

>Sequence 156

TTCGAGAGCTCCCACCGGGCTGGCGGTGCGCCGCTCTGGTGCTTGCATCT  
TGGCTTCCTATAGCTTTCTTTTACAGAGGCCATGAAATGCAATCCAGC  
TGAAGTATTATCATCTTGTAGCATTTCAAAAGGAACGTCGAAGTCATCCA  
AAGGATGGGAACCAATGTTCTTGTGTTCTTGGGTTTCTTAATGATT  
TCTGAATCATCATTATTAATTATGGAATTCTCTGGTCGAAAAGTCACATT  
TGGTTTTCTCCTCAGTTTCTCACATCTTTTTCTTGCAGCTCTTCTCAG  
CTCTTCTTCTTGCCTTTTTTTTACTGTCTTCTTCTTGTCTTACTTCAGGT  
GGTTCTATTTTGACCTTTAAAAGTTGAAGGGTGTCAACATCACCTGTT  
CAAAATAATTAATGTGTTAGTTTCTGTTGCCTTTGTTTAAACGCATTGAG  
GTTTAAAGTTGGATAAGTTGGGTTTTTTGCACCTATTCTGGGGCCAATG  
T

>Sequence 157

GTAGAGGGTCACCGGGGCGGCCGAGAAATGTCGCCAACTGCCGTCTTCC  
CTCCTCGGCCGCTGCGACAAACACCCACAAAATGGCGGCAGCGCCGTCG  
CCCTAGAATCCCCGAGTCGCCTCTCCCCGCGTACCT

Table 2

## &gt;Sequence 158

TTTGCGGGCTCCCCCGGTGGCGGGCGGACTCGCTGACCAGACCAGGCCCCC  
AGGGCCCAGCTACTCGAAGAACAGCCAATGGATTGGAACGTCCTAGGACA  
GATGCCACGGCTTTGACCCAGGCTGGGGGTGCACGGATCTCACTGGGGCT  
AGTTGGTCCGATGGGAAAGCCCCATGGGTCCACCAGGATGAGGTGTTAA  
CTCTATCAGGGTACCTTGC

## &gt;Sequence 699

TGGGGATGTGCCTCTCTGTGGGCGGTGGCGGGCGAGGTACTTTTTTTTTT  
TTTTTTTTTGTAGTGTTTTCTGATGTCTTTCTAACAAATCTTTCCTG  
CCCCAAAGTCTCAAAAACATTCTCACGTTTCTAGATTTTTAGCTTTAGCT  
TTTGTGTTTGGGACTATGATCCATATTTAGTGAATTTATTTTTGGGGGGG  
CAGAGTCCATGTTGCCCAAACCTGGTCTGGAACCACCACACCCAGCTAATT  
TTTGTGAATTGCGGGTACCAGCACACCGGGCGCCGCTCCTGGACTGCGCCTT  
CTACGATCCAACGCATGCCTGGAGTGGAGGACTAGATCATCAATTGAAAA  
TGCATGATTTGAACACTGATCAAGAAAAATCTTGTGGGACCCATGATGCC  
CCTATCAGATGTGTTGAATACTGTCCAGAAGTGAATATGATGGTCACTGG  
AAGTTGGGATCAGACAGTTAACTGTGGGATCCCAGAACTCCTTGTAATG  
CTGGGACCTTCTCTCAGCCTGAAAAGGTATATACCTCTCAGTGTCTGGA  
GACCGGCTGATTGTGGGAACAGCAAGCCCGATAGTGTGGTGTGGGACTT  
ACGGAACATGTGTTACGTGCAACAGCGCACGGAGN

## &gt;Sequence 848

GGTACTGGTGTTATGCTTGTGCCTGTGTGAAATTCTACAGTGCTGAAAA  
CTCATGCACTCTAGCTATGAATGCAGGTCTACTTGAAGCAAACTCTTCA  
ATCTAATTGTTTTCTCAATCTTTGTAAACCAGTTTAAAGAGTCACCAGAA  
ATCTGTAGTTTAAAGGCACCAGATACATTTCTTGGCTGAGCCTTGAGGAC  
CAATATGCTGGACCAATTCGGTAAAAATACACCATAAATTATGACTGCTTT  
ATCTGAATGCATGGGACACTTGTACGATGGCGGGAATTATTACCAGGAG  
TTTAGGAGCCAGACATGGGTTCTGTATTTTCATACATTGGTGATCAATT  
CAAACTCTCTTCTTTCAGCCCCAGGTTTGGTCAGTCTGGCCAGGAGTGC  
AGATTATGACAAAAAACAAAGCTAAAAGACCTGAGCCATTAAAGGTTACAG  
TCTCAATACCACCGAGTTAAACAACCTATTTAAATGCAAGACTATTGATT  
GGAATGATCCCGCGTACCTGCCCCGGGCGCAAAGGG

## &gt;Sequence 849

GGTCGGCCGAGGTACAAAAGTTCTGAAATAACACTATAGGCTTAAGGAAT  
AAGGGACCAGAAATAGCCTGGAGCCAGGTATTTCTGGCTTTATACATTCT  
TAGGAAAAAATACTTTATAGATGTATTTAAGTAGAATTAAGGTTTACAC  
AAATGATTTTTTGAGAGAGAGAGTCCCTAGGACCTAAACATTCGTTCTAC  
GGAGATAGGGTCAACACGCAGATATTTATTTAGCAGCATGGTCTGCAGAA  
GTAGGAGGAGGTGACCAGATGTGATGGATTATGCCTGTAATTCAGCATT  
TTGGGAGGCTGAGGTAGAAAGATTACTTGAGCCCAGGAGTGTGAGACCAG  
CCTGGACAAAATAACAAGACATCATCTCTCCAAAAAATAAAAAAATTAGC  
GAGGT

## &gt;Sequence 850

GGTACCACCTAACAAATTGGAGGAAATGAAAAGACGAATCAACAACATTT  
TGGAGAAAAAATTTATTCTACTTCTAGAATTTCACTACTACANAGTGCTT  
ACGTTCTTGGTTGGTAGATGAAGTGAAATCAAAATTGGATATTTGGAAC  
ATTAAATATGGGAGCAGAGAATCTGTGGAATTATTGCTGGAAGACTGGCA  
TAAATTTATTGAAGAAAAAGAATTCCTAGCTCGACTTGATACTTCTTTTC  
AAAAATGTGGAGAAATTTATAAGAATTTGGCTGGAGAATGTCAGAATATT  
AATAAACAGTATATGATGGTGAAATCTGATGTTTGTATGTATAGAAAAA  
TATATATAATGTGAAGTCCACTCTACAAAAAGTGCTGGCATGTTGGGCTA  
CTTATGTGGAACCTTCGCTTACTAAAGGCTTGCTTTGAGGAGACAATA  
GAGGAAGAAATTAAGAGGT

## &gt;Sequence 851

ACCTATATTCTATGCAAAATTTATAAAATAATCCTTGAACATGAAAACTC  
ATCTTAAATTTACACGAATTAAGTAAGCATGCAATACAGACACTTGCAGG

Table 2

ATGCCTGGCCTCTGGGAACTGCTCCTGTCTCTGTGTGAATGTAGAAGTGA  
GGCTCAAACCTCTCTCTTAGGAAAATTTTCCCTTCCCACTGCCCATCCATT  
TCTGCTGACTCAACAATTCCCACAGAGGAAATGGGAATAGTATCATCAAC  
TAGCAGTCCCTCCCATGCCAACAGATTTGGGGTCCTTATCTAAGTGTCTTCT  
GCAGCCGGTCTTCCCTTCCCTGACTTCCCGTATTGGCTCGTTAAAATGATT  
AGCTGGCAATACAGGTATGTTTGGACTGCTATTGGTGGTGAGTTTAATCT  
TCTAACTGTGTTTTGTGAAAGGAAATATTCCCTAAAAGCTTTGGTGTAC  
TTAAAAAAAACAACATATATGATTGAAAGAAATTTGAGATATTTTTGT  
TTCAACAAAAACCACTGAGTTTATGTCTAAGAAGAAAATTCAATAAGCAT  
TTATCAAGTGCTTAGGATATGCTGCAATGTATGTACCTCGGGCGCGACCA  
CGCTAAGGG

>Sequence 852

GGTACTAGCAGATGATGGCACAGTGACAGCTGGGAGGGATGGGATGTGCT  
TGCTTCATGTCCCCCTCCCCTGCTGCTCAACCTACACAGTCCCTGTCT  
GGTGACGTGCCAAAGTCCCTTCCCTGCTTGCAGAGAGGCCTCTCTTCGTCTG  
AACATGGGCCTCAGGAAAGACAGCCTGAATGCCACTACCCAGGCTTGTG  
GAAGGTTCTGCATCAGTGTGGCATTGTTGCGATAGCCCTCAGTTGATGCT  
TGTTTGTGGTGTGGGAGGCAGGAACACTTTAGGAGGGTGGAGGGGTGA  
GAATGAGAGAGGACTTGCCCTGAGCCACCCAGCTGTGGTCACTGATGGC  
CCGGATGGCTACATAAAATCCTGGGAGATCCGTTGTCCTCATAACCAGAGT  
GAGCTGGGCTCCAGACCAGCCCTATGGGAAGATCCTGTCTGTGGGAAGCC  
TTTGCCACGTGTTTGCTGAAAGGTGTGGGGAAGGCAAGGTCAACTACG  
TTTCTTTTTTGTCAAACCTCCGAGACCCTTGACCTTTGCCTGTTACCACTG  
GAAAGGGGCCATAGCCAGAACCCCTTTTAATATCACCCCTGGCTTCTGCTT  
TCCAAAAGACTGTAAATTAATAGTGCTGAGGAAGGCCAAATGACGGGGG  
TGGTTTGACCTTGCCCTGCTTTCTGGCTTGGGGAAGAATAATGGCAGGGA  
CCCTTTTAGGGGTTGCAATGGCTCGCTGGAGGGGCACCCACCCGTTGG

>Sequence 853

CCCTTAGCGTGGTCCGGGCCGAGGTACGCACATACATACACTAACGCTC  
AGCATAAACTTTCCATTACACTTAGACAATGACTTGTGGAGGAAAAACAA  
GGATAAACAAAGAGTCTCAAGAACTTAAGAAAAACATCAGAGTTGATTATT  
TAGCACTTTCTCAGGATTCTAAGGCAATAAGCCTAATTCAAAACGTGAAA  
TTGTTCTCTATTTCCATTAGTCAATTAATGAGATAAATGACAAGCTATT  
GCTGCTTCTCCATTCTGTTTTCAAAGAACATTACAAAAATAAACCAAGTGT  
GTTCTCTAACAGTTCTAAAAACAGTTTGAT

>Sequence 854

GGTACCAGAAGCAAGGCAGTTTAGGGACAAAGGGCATGAGCTTAGAGTCA  
GATTTCCCTAGGTTCCAGATCCAAGCATCACTACTTATTTTCTTTAAGAACT  
TGGGCATCTGTAAACCAGGGATAATATCTTCTTCAAAGGGCTTGTGTGAA  
GATTCAACAAGGTAATACATATAAACGTACAGATCAGTAGACCAGCCAA  
GAGTTAAAGGCCTCCGGTTGATCATTGAGAGGGCGGCAACGCATTACAAA  
GTGGTGGATAAAGGGACCCCGTTGGAGAGGTCTTTAAACCTGTTTAACAGG  
ACACTGGG

>Sequence 855

GGTACCTGGGACTACCCACCACCATGCCCGGCTCATTTTTGTATTTTAG  
TAGAGACAGGGTTTACCATGTTGGCCAGGCTAGTCTCAAACCTCCTGACC  
TCAAGTGATCCACCTGCCTTGGCCTTCCAAAGTGCTGGGATTATAGGTAT  
GAGCCACCGCACCCAGCCTTCAATTTTTTTTAAATCTGATAGAGCACCA  
TCTACTACATGCTTAATATTATCCATAAAACAGACATGTCTGAGCACAGAA  
GATCATGTTAATGAAAGATTATTGAAAGGT

>Sequence 856

ACAGAAAAAAGCATAATGAATACAACAACCTAGCATCAAACCTCAGTGTATA  
TAAGAATGGCTAAGTGACCATTAGTCATGTGAAAAGCTTAACAACCTATTA  
AGCTCTTATTTCTTACTAAAAACAATTTTAAGTTCTTTCAAGGCTATA  
GTTACGCTTTACATAAGAGGCCCTATTACCCACTAATTCTTAAATTTCT  
ACCTACTTAAATTTCTTTAGACATTTCCAAAGGTTAGTAAAGGAAGACA



Table 2

TAAGATATGCTTACTTAAATCCTTGCTGGTTCCATGCCTGGCCATACATG  
>Sequence 857  
CCCTTGAGCGGCCCGCCGGCAGGTACCATGAAATAGGACCTTCTACGGT  
TTAAAATAAATGTTTGTCTTTCTAGCCCTGTAGGTCAATGAATGCCTG  
ACTCCAGTGACAGACCATAATTATCCAAATCTCTCATTTATGAATATGGA  
ATATAAATATGCTAAATTGATTATGTCATGAATAGACTTCTTTTTGCA  
AACAAATGTTTGGAGTTTCTCACCTTTCTCCTAGCCTTCTTTTTCTTCTT  
AAATGTAGCCTGGAGGATTCTATCTATTCCATATAACTAAAAGTAAACG  
TTTATTTAGGAAAGGGACTCAGGAG  
>Sequence 858  
GGTACAAATGTGAGTTCTTCTCCAGACCATCAATATAGATTGGATTTATA  
CACTGATCGCTGTGTCTCTCCTTCGTAATAACCTTACCCCATGTTGCAAC  
AAACATGGACTTGTACAAACATCCCAGAGTGAAATCTGAATGTGGTCAAG  
AAAGTTTCAGAAACAATAAGAGTGATGCAATGCATACCACAACTCAGGCCC  
AGTGCAAAAGTCAGGCCCCAGCCCTTCCCATAAAGGGACTTGGTCATTT  
GAAAAATCAAAACCCAAAAGGAACAACATATAGGGACCTGTAATCAATTAG  
AATATTCT  
>Sequence 859  
ACTGGCTGGACTTGAGGTGGTTTAAAGTTGGCAGCTACATCGAAGGACTTC  
TGAAAAGCTCAAGTGACAGTTACACCTTTGCACTCTCCACATTCAGCTGG  
CCTTTTCCCTCAAAACATGGATAATCTTCAAACCTCCCTGAACAGGTGGA  
AATGCGTCTTTCCTCTAAGCCAAGTTCTCAGTCCACATTAGTCCATACTT  
GGCTACAGAATTGACGTTTGTGGCCACAATCCTACTAGAAATGACCTTTG  
GGTAATATCCTTATCTTGTGTAGTCTAGTTAGGGTCAAGTAAAACGAAATA  
>Sequence 860  
GGTACTTTATGCAGAAGGAAAGCAATTGCAGATGGAAAAAGCTGAGATGC  
TATAAGGAATTACGGATTTTATAAAGAGATCACCATGTGGGTGAATGTAA  
ATATAGATGAACAATGAAGCATAAACAAAATTTAATATCTTACAGGCTA  
AAATATTTAGAAATGAAAGACAACAATAGCATATAAGTTAAGAAAGGGGG  
TAAAAAGAATCAAGAGCATTCTAAGGTCCTTATATTACCTGGAAGGAGAG  
TAAAGATAATGACTATCTTCAGGCTGATAAATTAACAATGTATGCTGCCA  
TTTT  
>Sequence 861  
CCCTTTGCGGCCCGCCGGCAGGTACCAGCACAGCAATTGCTGTATGTTT  
GTTTTTAATTATCGGTTTTCACTTGGAGGGGCCAGTTCTCTATATTTCAA  
TCTATTTTCTATATCAGAAATGAGCAGGCATTTAAAAAATGGCTTTCAT  
TGATGGAGAGGTAAAAGTGAAATGGCTTTGTGTATTATATTATAAAAG  
GCCATTTCCCAATCTAGAATTTATTACTAAAAATCAAGTTTGCATTGAG  
GGGAGGAGTATGATTTGCTCAAGCTTACTTTTTTTATAGGTGGGGTTTTT  
ATATTTCAATGTGATTACTCACC  
>Sequence 862  
GGTACACATTCCATGCTGGGTCATACCTGAGTGCCAGTGGAATATAATTT  
GGAAGGAATAACGTTGTTGAAAAACATCCTCTACAGACAATATGAACAAT  
GCCTTAGTCATCTATTGATTATGACAATATACTCTTGAACAAATTGTTTT  
CGGTTCTGGTTTCTGTGGT  
>Sequence 863  
ACTACACCTCACCACTGGGTGTCTCTCAGACGTTACCAAGAGACAGAGT  
AAACCCATGCTTTCTCCTATCCAAACCAGTCTCTCCTGTCCCTGCTTTG  
TCCAAACCCAGTTGCAGGAATTTATGTCTTAAAGTAAACCATCGTATGAT  
AATTTCCCTGAAATGTGCCTATTAATAAAAAAATAGGATATGATGGGAG  
GCAGACATAAACATTCTGGTCAATTTATTGGTGTATTATTTATTTCAGT  
TAATAAACTGCCCTTTCGCTATGCTTCACTTTCCACGTGTTTAGGCAGT  
>Sequence 864  
ACATGCTCTAAAATGTAAGGATTCATTTATGAGAGAGTGAACATACTGCT  
TGTAGCTAAAACATTACAGGAGACCTTAAAAAGGGGTATAATTGGTCCCT  
ATGTGAAATGAACCTGACATATTTTATAAATTATTTGTGCATGACTATC

Table 2

TTTTGTTGATAGCACTAGGAAGACTTCTAACGTTTAAATACTTTATTTGC  
CCTCAATTACTATTTAAAAGTCCTATAATTTTAAGTAATTNTACAGCTGA  
CAAAGATAAATATTTTTTCTTTTAGTTTTCTAATGTCTTGGAGGTA  
GTGGAAATGGCCTGTTTTGACACATAATTTCTAGAACTTGGAGTTAATTT  
GATCAGTTACATTTGGGTTTTTTTAGATTACAGTTCTTGGGGTAGATAA  
CACTTCTTGCTGCTTTAAGTACCCTCGGACGCGACCACGCATAAGGGCGA  
ATATCCACACACATGGAGGACGGTACATA

>Sequence 865

GGTACATGTTACTGGGTATTAAATGCGTTCATAGTAGGGTATTAAATCAG  
CAAGGTCCCCATCCAGAAAAATGTGCAGTTTGTTCATGGGAAAGATGC  
AGAGACAGTTTCAGTTAATACTAAGTGCTAAGATTGGGATGTGCACAA  
GAAGCTGGAGGTAAAAATCTGGAAAAGTGAACGTGAAGTCACCACTAGG  
CAAGCTGCGCTGTAATTGAGCTTGCTTGATATGACCAATCAACCTTTGCT  
TGTTGAAGGATTAGTTATCTAGTTTCCTCCTTTTCTTTTTTGAATTTGG  
TCTTTTAAGGTCTTGATAATCTTTCTAGTTTAGAGCATGTGAACAGAACA  
GAAGGAAAAATCAGGACTCAGTTTACTTAATTTAAGCAAGCATTGGTTGCT  
GCAGATTAGGGGAGGTTAAAGTTGCTGGGCTCCACTCTTTTATTAGCATG  
GATGCTTAAAGAACTTCAGGGTTTGGAGGTTAGATTGAACAGCCTGTTTT  
TGGACCTGCCCGGGCGGGCCGTTCAAAGGGGCAAATACAGCACCCTGGG  
CGGCGATACTAATGGATCCAGGCTTGGTACCAGA

>Sequence 866

CATTTCCCCTTATATGTTTCGTTTTTTAGGTACTATGGTATGCCCTAACTA  
AAAAATAGATATAGGATAGTGATACTTTGATGAGGACTATGAAAAGGGAC  
AGTACGGCTTAGTGGAAAAAGTTTTAAGTTTTCTACTGTTATTGAATAAA  
ATTACATATAGTGTGATTCTTATTACTTGAAATTAGGAGGAGAAAGAATT  
TTTTGAGGTAAATTTGAAAAGACATAAAATAGACTACCCTGACAAAAATC  
TTCACAGATTAAAAATACTAATATTTGCATTGTCTATGATATTACAAACA  
GTATTTCTTGTCTTTTGTCTTTTGTATTGTGTTAAGTGTTCCTTGCTAT  
ATTAAATATAACTTCTTATGCAGCCTAGACTTATTTTGTATGTATTCCC  
TGACCTTGATGTCATAGATAAGAAAAGCCATACTCTAAGAAAACTAAGTAT  
CTGCTCGGGTGGATTGTTTGAAGGGCGAAATTCCAGCACATTGGCGGAC  
AGTTCATAGTTGGATCCGAACCTATGGAACCAAATCTTGGCGAAATCATGG  
ATAATATCATGAATTTTCGTGTAAAAATTGTAATATCGATTATCAATATT  
CACAAGAAATAATGAGTCAGGGAATCATATAAGTGATAATGTCTGGCTAT  
GCTTTAAGAAGTAGGCCAACTCATATATTAATATGGGACAGATGAATAT  
AAGACCTATTTTCTAATATCATGATATATATTACTTTAGTACAATTATTT  
ATATATGTAATTAGACAACCTTTCGTGTGTGAGAGAGTTTGTTCCTCGTA  
TATCTGGAGTACTATTCACAATTTACGATATTCATATGCA

>Sequence 867

CCGCGGGCATGCAGCCAGGCTAGACCGGCTCAGCCCCACTTCAAGACAAA  
ATCTCAGCACCCATTACTCACCATACATATTTATGCAGTGAGCTGCATCA  
TGACCAGCTATCATCTTACCTCATAGTTTTTTTCTCTGGTAGAGATAATT  
AACTTATTATGCTTGATCAGTTAACTCTTGCTTAGAAAATTTAAAAAATAT  
TTTTAAGTGACAAATCTTTGTAGAAATTTTGAATAAGAAATATTGA  
AGTAGAAAGTTAAAAATCACCCACAATTCTGCTTTTGTAAACATTTGAATA  
TGTTGTCTTCCATGATATATAACAAAATTTGTCTGGGTATTGCATATGTC  
GTCCTTTTCTTCTTAATATTGCATTTTGAGCATTTAACCAGAACACTAAA  
TATTCTCCCTAGAACATATGGATTTTGAATAATTTAACTAATTATAAAAA  
TAACCTCCCTAATGGTTCTTTGGGCTCTTTAAAGGTTTGGTGGTATATGT  
TCAGGGTATGAACACTTAAGGCTCTTGACCACATACTGCCATACTGCCAT  
ACTGGCATACTGCTTTTAAAAAATAATTAAGCTGAGTGGCATGGCTCACG  
CCTGTAATCCCAGCACTCTGGGAGGCCAAGTCAGGTGGGTCAATTGAGGC  
CCGAGATTTGAGAACAGCCTGGTGGACCTGGGTGAAACCTTTTCGTTACT  
AGAAATAACAAAAGGTTAGCCAGGTGTAGCAGCATGTACCTTGGGCGGGGA  
CCACTCTAAGGGG

>Sequence 868

Table 2

CCTTTCAGCGGTCTTTTGGCAGGTACTTCCTTCTTTTTTGGTAATTTTGC  
GGGATGTTGTATACTCTCTACCATGGGGATGAAGACACAAGAATTATGAT  
AGTTCATTGAAAAAGGTTGAGAAATTCAGAACTTGTCAGTTTCCACCAATA  
ATGGCAAAGATACAATATGACAAAGTTCAGTTGCTTAAATGAATCTAGGA  
ATGAAGAATCTAGAAATTATAATGGAGAGGTGATTAGGAGTTTAAAAATGG  
TTTATTGATTGGAGATCCTTTATCTGGATTATATAGGGAACACTTTGCTT  
TAGGAGAACCACCTATGATCTAGGAAAACGGCTTTTAAATGTACCTCGGA  
CGAGACCACGCTATAGG

>Sequence 869

TGTACATTAATAAGCATACTAAAGAAAAAAGGAATGTTTTCTTAGCAA  
TTTAAGAACTTGCTTAAAAAGAAAAAAGATCAACCACTCCCTCTAGTGA  
CAAAAATTAGCCACAAGATGAAATTCAGTTAAAATTCAAAACACTGTGGA  
GATGGAAAGCCTTGATTTTTAGATGAAAGGATTTATGGCTGGAATTA  
GAAATTAAGGAGCAGAAAAGTGGGTGAATGGAAAACATTTACTTTTTGTT  
TTTAAGTGTTAATAGCCACTTTTTGTCCAGTCTGTATCTCCTTTCATTAG  
TCTTTATATATATATATACACACACACACACGATGTTATATATACAT  
ATAATGGTTTATGTATTATATATGGTATATATACACTTATATGTTATATA  
TATGGGTTTTTTTTCAGGAGCATTATATCATGGGAATGAGTTCAAAAGTAC  
CCGGCCCGGCGGTCGTTTCGAAAAGGCCAATTTCCACACACTGGCGGGCGG  
TACTAGGTGATCCGACCTCGGACCCAACCTGGGGGAATCATGGGCATAAC  
TTGTTTCTGGGGGAAATGGTTTTCCGTTTACAATTTCCACACACTATAC  
AACCCGGAAGCCTTAAAGTGGTAAAGAGCCGGGGGGGGGGCCCCAAAATG  
AAGGGGGAGCCCTTAAACTCTCCCAATTTTAAATTTTGGCCGTTTTTC  
CCGGCCTCTTAAAAATTGTGGGCCCCCGGTTTTTTTTTTTTTCTCAAC  
AAAGAGTTG

>Sequence 870

CCCTTGGCCGCCCCGGGCAGGTACTAATATCTTCAACAGAATGCAATAAA  
ATACGAGCTACATAAATCCAACTTGTTTCAAAGGTAGCTATGTTTTTTT  
AAAAAAGTTATTATAACAGACAAAGCANATGCAAACTTATCCTTCCAAAC  
CCTGATAATTGGTAATACCAATAACTGGTATCTAATAAATATACAAATC  
AAGAGAATACCTTGCTAGCTAAATTAACAAAAAATAAATAAATAAATAA  
TACTTAACAACCAAGTGCAACTNTGTAACCAAAAGTGTTCTTAGCTCCCG  
CGTACC

>Sequence 871

CCCTTAGCGTGGTCGCGGCCTATGTACAAGGGCTTCTTTGGTGATAGTTT  
CTACTCTCTTTAAATACTGTTCTGTTATTTTGAATCTGATCAAGAATT  
GACACAATAAATCTCTTTGATATTTATACTTATGCCTACTTTTAACTTT  
TAGGAAAACCTTTATGAATTGGAATATTCTAAAATCCTGAAATAATTGGA  
ATATTCTAAAATTCTGAAGAGAATATGAACGGATTGTTGGAATGGAACCT  
TTACCCGATTCCCTCAGACTAGAGTGTTTCATACGACATTTTGCCAAGAAG  
TTCTATAGAGGCAATATCACTTTTAGGATGGATGGGTCTAAAAGGATCA  
TATTTAGTTTCTGGTTATTCATGGTTGCACTCACTTTAGAGGATGTGTTT  
CTATTAGGTTGCTGCTACTATNTGTCTCTCTAAATAACAGTATGGAATT  
ATAGAAAAGAAAGGTTGGGAGAATAGTCGTGTGATTCTTCTGGTCAACATA  
AAGCCTTGTTTCATCCAGCCACTGACTATTTTGNCTTTCTTTTGCCTTGA  
AGCCAAGATGACTTTTTTCACTTTCGATGTTTTTATGGTCTATACCTCT  
CTCTTGCTCCATATTATTTGTCAGTGGTGGCGCAGATTATTTGATTCCA  
TTAAAAATGAACCTGGGTTTTTAACCATTAACCTGGAAAATTCAAGAAGT  
TTGGGCCCTTTGTCCCCCGGGGGCCCGGGGCTCCCCGTTTTTTTTTT  
GAAAAAAGGGGGGGGGCCGCCAAAAAAT

>Sequence 872

ACAGTTCTGTGTTTTTCAATTGATACATACTACTTATGTAAGAAAAATGA  
GTAAAAATAGAGGGCCACACAGGCAACAGCCATTAGGTTATGCACAGAGA  
AGGAAAAAATTGAGAGGTTGTGCTGCCATCTTCTGGAACAAACAAGAATC  
TACAGGAACAGAAACATGATGGAAGAACAAGGGTAGTTACTGCAACGAA  
AAAACATGGCAGGAAAAAACCATTGTAAGCCAAGCTTTTGATTAAAC

Table 2

CATGAATGAAAACAAATGGGAAAACAACAACAAAAACAAAAACAAA  
CAAAAAACAAGAATGACCAAATACAGAAATTATTAATGTTTTACACATCT  
TGTAAC

>Sequence 873

CCCTTAGCGTGGTTCGCGTTCGAGGTAAGTTGTTAAAATTCAGATTCCTGGA  
CCCACCCTAGACCTACTGGATCCAAATCTCTGCAGACATGGCCTGGACAT  
CTTCATTATAACAAGCTTCCACATAGATTATTTTGTCAAGTGGCCATGTCT  
TGCTTTGCTTCTGTGGAACTACTCTCCATCTTCTGGAGTGGAATGTCCC  
CCATTGCTATCCACATGGTCCTCGCCTCCCTGATACTGTAGTCTCAGATG  
GCACCTCCTGAAGTGGGCCGAGCTCAATCACTTTCCAGACCCTGCCCAC  
CTCGCTGGAGCTCAGTGGGCCCATGGTGGGCAAAGGAACCCAGGTTGGGC  
CACAAAACCCATATGCATTATAAGTAGATGGGGGCTGAATTACAACACAC  
AAGCACTTAAGGGACTTTCTGAATATCTGGACTCATAGGATGGCGAGCAC  
AGCAAGAGTGCAGATTGAACTTACTCTTAGTAACAGATTGTGACTCGGAG  
AGACCCTGGGTCGGGATGGTTCTGAGTAATGGCAATACTCTTATTGATA  
TAAAGAGGCACCTGGAACTCCTTACAAAACATGTCTCTTTGTAAGACAG  
GTGATATGAGACTAATTCTATTACTGGGCCTCTCCAAACATTTCAAAAAG  
AAACAAGGGTCAAACCTTGCATACCTCCCTTTCATATGTGACCGGTAATA  
GGGCTTATAAGGAGGGCATGCCATTTACTGAGTATTCGACGTCTTAACGG  
TATACAAATTACATCTACGCCT

>Sequence 874

CCCTTTGCGTGGTTCGCTTTTCGAGGTAAGTACTGAGGATGACTAGATGACAAAT  
AATAAGAAAAAATGGCATTGACTTTGTATAGAACTTAATAATCAGATTTT  
TAAAGAGGTTAGTCTATTCTTATTGAGAGATATGGAACTATCTAGG  
CCTAAAGACTGTAAATCTGCCTGGAATCAGATAGTTGGCAGCAAAATCAG  
AAATAGAAAGCAGTTACTCAACAACCAACAGTTTAATTTAAGAAACATT  
GACAAGCATCTCCTGTGGATAAGACCCTATGCAAGATGTCATGAATATAA  
ATATGCACAGTAGT

>Sequence 875

CCCTTAGCGTGGTTCGCGTCCGAGGTAAGTTTAAAAATAACAGAGTGTGATT  
TAAGAATACTCAGACTAGAGCCTTCAGTGAGTTGTCTGAGGGAAAGGAGT  
GAAGTCAGGACTTAGATAGAAAGATTACAAAGAAAGTCAAAGTAAGCAGA  
GGAAAAAGATACCAAAATGACAGCTTCAGAATAAGCAGTAAGGGAATAAA  
GAAACAAAGTTGTGTGTGTGTGATGATTACATGATAAATCCATGGAA  
AAAGAACTCGCAATTTACTAAAGGAATAATTCATGGTCATACCAATTTCT  
GTGTCCAAACTAAGTTGATTAGTATCAGAAGGAAAGTCAATGTTTAAAC  
AGTCCTTCCACATCTGCTACTTCCATAATGCCTATGCAACTGTCATAAA  
TTAAGAGTAGAGAAGGGCACAGGGCCCACTGTCAAAACAAACAGGCAATT  
CTGGGTTCCAAGTTTCATATAATTTCTTGAGCCTGAAAGTCGTGAAAAC  
TGCTTGTCTAACATGGACCACTCTAGCACTGTAATGGGATAACCCATTA  
ACCTGGATTCTGGCCACAAGCCTTGCCCTTGTGGCAAGGTACCTGCCCGG  
GCGGGCGCTTAAAGGGGAATATCAT

>Sequence 876

CCCTTAGCGTGGTTCGCTGTCGACGTAAGTTGCTAAAATTCAGATTCCTGGA  
CCCACCCTAGACCTACTGGATCCAAATCTCTGCAGACATGGCCTGGACAT  
CTTCATTATAACAAGCTTCCACATAGATTATTTTGTCAAGTGGCCATGTCT  
TGCTTTGCTTCTGTGGAACTACTCTCCATCTTCTGGAGTGGAATGTCCC  
CCATTGCTATCCACATGGTCTCGCCTCCCTGATACTGTAGTCTCAGATG  
GCACCTCCTGAAGTGGGCCGAGCTCAATCACTTTCCAGACCCTGCCCAC  
CTCGCTGGAGCTCAGCGGTCCCATGGTGGGCAAAGGAGCCAAGTTTGGGC  
AACAAATCCCCTATGCATTTAGAAGTAGATGGGGCTGCATTACAACACACA  
AGCACTCAAGGACTCTCTGTAATATCTGGACTCATAGGAAGGTGATCACA  
GCAAGAGGGCAGATGAAGCAGACTTAGAGAAACAGATGAGACACAGAGAG  
ACCTGGTTCTGGTTTGTCTGAAACATGGCCAATCTCTATTTAGATT  
AGAGAGGTACCTGAAACATTTCTACAAAAAAATTTCTTTTGTATATGA  
CGCTTAATTTGAGGCCTAATTTCTAATACTGTGCAATCTCAAAGCTATT

256  
Table 2

AAGGAAAATAAAAAGGCGCAAAAATGTCTAATACTGCCATTGGATTGGTG  
AAGGATTAAGGGCTTTCAGGGGAGGAAGGGCTTTACCTGGAAAAGTTTG  
GCCTGGAAGGCTGTGACAATTACTTGTTCTCCCTTCT

>Sequence 877

GGTACTTTTTTTTTTTAATTTTTTTTTTTTTTTAATAGAGATGGGGTCT  
TACTATGTTTCCAGGCTGGTCTCGAACTCCTGAGCTCAAGTGATCCTCT  
CACCTTAACCTCCTGAGTAGCTGGGACTACAGGTGCAGACCACTGTGCC  
TTACTTCTATTCTTACTTGACAAAGGAGAGGAAAAAAAAAAGGAAGTTTAG  
AGAAATTAAGTAGTAACCTGTCCAAGTTTACCCACAACCACTAAGTGGTA  
AAGCTGGGGTTTGAACCTCAGCAATGTGCTTAAATCTCAGTAACTGAAAA  
TACACTATGGAGGACCTTTAGGTTTTCTTAAATTCAGAAGGTCTTTTTCC  
ATGT

>Sequence 878

CCCTTTGAGCGGCCCGCCCGGGCAGGTACATGTTTGTAATAATTCCTTAAAA  
TATTTATGCTCAAACCAACATTTCCATTTTATCTATCTTAAATATATCTT  
CCTCTTCTTTACGCCTAATTTCTTAAACTCCCAGAGTTTTTTTCTGTAAAG  
ATCTAGTCATCTGTAGCACTTCTCACAAATTAAGCTCTCTTATGCCCAA  
ACAGTAACGAAAGAGGTCTCTTAGTTGGACAATAAGCAGTGAAAGATATT  
TCTTATGGGACAAGAAATTAACATTATTAGTCAAAATGTTGATGCCGGTAG  
GCTGAGAAATGATTCTCACTTAAAAGCCCCTGGGTTTTAAACCTCTCTTA  
GAAAAACATTAGTTAGATGAAAAANANAAAAAAAAAAAAAAAAANGGTACC

>Sequence 879

GGTACAAGGAGCTAGATCATCAAGGAAGGTCAGGGCAGGGTTCACAGGAT  
GAGGGCACTTTGCCATTCTTTTGTGATATTGGTCAACAAATGACACAGGT  
TATTTACAATCTTGACCTTTTGGAAAAGATACAGCAGGTAATAGCCTACA  
GGAAAGAGGAGGTAGAAAACAAGTGCCACAGTAGAAACACTTTGATAGCT  
AAGATGCTGTCTATCCTTTGTGGNTATTCTGTGCAGTTGTCTGCCTGGGT  
TCTTGGAAAAGTCCAATCTAAAGGTGCTTGATTGCGCCCAAGGATGTCTG  
CATTCATTCACTGGGAACCTACAAGCCCTCTTGCTTCAATCAACTCTCA  
ATCAGTTTTCCAACTCTTATTCTTACTAGACTGCGAAAAAATATTCTTC  
TTTTTACCGCAATGGAAAAAGGGCCTTGGGGGATCAACCTGGGGATGTGT  
GAATTATTAACCTATATTTTATATAAGTGGACCTGCCCCGGCCCGCCT  
TTAAAGGGCCA

>Sequence 880

GGTACATACAATAGAGTATTATTCAGCCTTAAAAAGGATGAAAAATCCT  
GACATGCTAAAAATATAAATGAATGTTGAGAACATTATGCTAAGTGAAATG  
AGCCCATCTAAAAAGGCAAACTACTGTATGATTTCACTTAACTGTGATATC  
CAGAGTAAACAAATTCATAAAAAACAGAAAGTAGAATAGAGGTTTCCAGGG  
ACTGGGAGTTACTTGATATAGAGTTTCAATTTTGTAAAGATAAAAAAGTTC  
TGGATATTGGTTGCACAGCAATATGAATATACTTAACACTACTGAACTGC  
ACACTTAAAGATGGTTAAGATGGTAAATTTTGTAGGTGTTTCTTACCAC  
ATTTTACAAAAAATTTTAAATTAAGGAATTACAAAATGTACAAAATACT  
ATTCATCATTTGTGTTTCCAGTTTATATTCAACACAGCAGTATTTCAAGTA  
TAGTAATTAACCTACTATCATTTGAAAAGATGTCTATAGCTTAGTAAATA  
TCCAACCTTATTTCATACATTTTGTGATTATCTAAGAGAAACCAAGCCCC  
CAATGGAATGGAGTTCTCACTACTTCACCTGCCAGCCTTCAAAAAAAGCC  
TGTATTTACACTACCTATTAATGGGTACCTGCCCCGGCCCGCTTCAA  
AGGG

>Sequence 881

ACCACTGCACTCCCACCTGGGTGACAGATCAAGACCOCTGCCTAAAGAAAA  
AATTTAAAAAATAAAAAATTTAAGAATATTTCTATGCCCTTTACCAGGC  
CAGCTTAATCAGACTTCTCTAGGCCTAGGACAGGCTTAAGATCAGTTAAT  
TTAAACACTTCTGATGTTTCTTGAGCATTGAAAAGTTTATTCTTTCTG  
CTTGTGTTTTCAATCTTTTTGTGTTTGTCTTTTACTAAGGCTAGAAACAC  
GTATTTGGTTTGGTTATCTGAAGTTTAAATTGCATTCAATTGTGTTTATAGT  
ATTTATCCCTGTAGTGTGGAATTACCAGTCACTTACATTCATATTTTAG

Table 2

TTTTTGCCTTATCTCCTGAAAAGTGTGGGGGACTTTGAATGGGTGTGTAA  
TAAAAAAGCTTCGTTCTAGAAAAGTAATAGTTTCTCCATGTCTTAAATATT  
TTAAATGACACTGACATGTTTTTAAAAATCGGGATTGTTGGCTGGGCACC  
GTGGCCCACGCCTGTAATCCTAGCACTTTGGGAGGTGGAGGCGGGCCGAA  
CACAAGGTCAAGAGAACGAGAACCATCTTGCCACACGGGTGAAACCCTAT  
CTTTGCTTGTGAAGGAAGAAGATGATACATGATGAAGGGTCCCTTGGCCG  
GGACCACGCTAAGGGGGGATTCCGGACCATGGCCGGCGTTTCAAGGGGAA  
CCAGCCTCGG

>Sequence 882

ACTTTTTCTTGAATATTTCCAGGGCACAAGATATTCTTATACAGAAACCT  
CAGAAATGGAATAAGCTAAGACATAAGCAGTGTTTCACAGAACCATCCAT  
CAGTCTTTTTTAGGATGTAGCAGTCTTCCATGTATCACTTAACCAATCAT  
TATTCTTACCCCATCTTTTTGGGCAGGGGGTGGTAGAATTTAAATTTAC  
CATTACTAAGACAGGGTGATAGTAAGCATAGAATTTGGGATGTCTTTTT  
TTTCCTTGCCCTAAACCTTCAGAGTTCTGCCAGGTGATTCAAATGTTAAG  
ATCCCATAACTCTCGCCTGTGTGCTCAAGCGAACACTAACACTTTAAAAAG  
TGGGAATGAAAAATCTGAACTGTTGAATTAGACACAGTATTGGGCCCCA  
TCTTCAATTTAGAAAAGAACAGTGGAGATATCAAGGCCATTGCGGCCTT  
CTGTAGTCATCTGAAGAATGATGTACCTTCGGGCGGGAACA

>Sequence 883

CCCTTAGCGGCCGCCCGGGCAGGTACTCAAAAATTTAAATAGCCATCTAA  
AAACATCTCAGGTAAAAATCTGTCCCCTGCATTGAAACCAAAATATT  
TTTTCTCACTAAACACATTTTATTTAATAGTGAGGTGAAATTACATTAG  
CCCTCTTCACATTTATTTGATTCAAACCTTTTTTAAAAAACTTAGATTCT  
TTTTAAAAAATAAATTAAGAAAAATGACATCATTCATCAGATAGCCAGC  
TACATGTGTAGTTTGATCATTGATTTAACCGTTTTATCACTGTTGATAT  
GAACATTGAGTACC

>Sequence 884

GGTACTTTGATACATGTAAAGTGCAAGGCACCTTGCTAGAGAGCATAGGA  
GCTATACTAAGATATAGAGTCCTGCCACAAATACACACAAAATAACATGA  
ATACAAAGTGTCTTAAAGTCATGCCAAATAAACAGAGCATATAACTGG  
GCAGAGGGATGGAGAGTACATGCTGGAGGAGGTGAGCGTTGACATGGTC  
TTATGGGATATGAAGTTGAGATGTTGAAGTAGAACTGAGACATTTCTGGA  
AAACTAGATGTATGAACAGAAGCAGGAGGAATAGGAGAAGGTTTGAAAAA  
CAGCAAGCAGCTCAGTTTCTTGGGTGGTCCAGGAGAAGAAGCTCAAACAA  
CAGTCAGTGATAACACTAAAAAAATCAAAAATTTTAAAAGTCTGGAATCA  
CAGCATAAAGAACCCGTATGCAGGATTTTTATCTCGCAGCCCTGTCTCCC  
TCAGGAGACAGAGATCCAGAATCACTTTCCAGAATGGTTTAGGGTCACCT  
TCCAGATTCTTTGTTACCAACCCTTGACCAACCATTTTAAGATTTCAA  
TGGACCTGACCGGGCGGGCGATCGAAAGGCGA

>Sequence 885

GGTACAATAACAAGACAGTGCCTGCTTGTGACCAGGGGCTGGGCCTCTT  
CATAGCTCTTTCCCTGCCTTTTGTCTTCAGAGTTGATCTGCTTCTTACA  
CATTCACTTTTTCAGAGTTTGCTATCTTAGAAGCAAGGATCATTTTAAAT  
TGGTTTGTTTACTTCAAAGTCCCACTCATCAGAGGCAGGGTTTCGCTTAT  
ATTTGGCTCAACTACTTTCTCTTGCTTGGTTTAGTAACACTAATGTTTAC  
TAACATTTAAATGAAACCAGTTTTGCAGCTAGCATCTATTGACAAATATA  
ATTATTTATTTCAAACCTGTATATTCCAAATTTAAACATATTCAATGCTTA  
TTGAACATTCTAACATAATAGCTTATGATAAAGGAAAAATATAACATCTGG  
TTTTGGATCTGAAGCACAACCACTGCTAGATATTTTGGGAAGGCTTTTAA  
TTCCAATTCAAGGTGAATCTCCGAGGGTGTGGTGGCCTTCCCATTAACAG  
CAAAAACCTGTCCAATTTGGGATTGGTAGAAATAAACCGGATGACCATT  
CCTTCTTTTATCCCCAAATTTGGATTTTATGCCTACCTAATGGCTTTCTT  
GGATATGATGGTTGGCAATAGCCTGCTTCTAATCTATTTTGGATAGAAAA  
GGGAACTTTAATATTCAGATTAGGGGGCTTGATTTTGACTTCCTTTAACA  
CCGAATGCGAT

Table 2

## &gt;Sequence 886

GGTACATATGGGCTCGGCCAAAGGGGGACTGGATTAATAAAATTCTGGTAATA  
TAGTAAGGACAAAATAAATGTAAAAAAGATAGAAGTAAATGTGAGAACAT  
CAACATGAACGCGTGCTCCTTTGAGTAGAAAAGTAATTTTTCTGCTTTGTC  
ACTCAAAATAGCTGGCAGACCTGACATCACCTGCCTCTGCTTCCATGCTC  
TAAAACTTTCCTGGGCTCAGATTTGGATGCTAATATGATTTTCCACTTA  
GTGGATAAGAGCTCCCTGGAGAAGGGCTCATTCTTGGATGGACAACAGAA  
TTAGAGCCTGAGTCTAGAGCTAATAAAACAAAGACAAAGAAGGGATCACG  
CAGAAAGCTTGGTAAAGACTGTCTTGCCCAATCTGATTACAGTCAGTTGG  
TACCCGCCCTGGCGGCCGCTCGAAGGGG

## &gt;Sequence 887

ACCGATGAAAGTTTAAATCTAATCAACAGTATTATGCACTGGTTGAAGAA  
AACCAGGATTAAGACGGAGGATAGTCAGCATGGAATCTAAGAAAGGAAAA  
GTCCGGTAACATATAGTGTTCATTAGATTCTAAGCTGTTAAGGGAGAAAG  
ACCCTGAGTCTAATGAATATAAACTTTAAATTTAAAGAAAAACATNGTCT  
GTTATAGAAAAGTGGTCTTTCAGGTTTTGTAAAGATGAACTATTTTCATCT  
TTTGTAGTTGAATGCTCATGGGGATTAGCTACCTCCATTTGTTTTAATGG  
AAACCTTTTTTAACCACAACCCATTTAGTTGCTTGACTCATATGAAGAAA  
AGGTGCCCTTGGTTGGGAAAAGTGGAAAAATTCCTAATTATGGAAAAATGAT  
TATCCCTTTATGATAATTAATAATTTTATGTTTCATGCTTCATCTCTTAC  
AGTTATAAAGAGTAATTTTACCTGTATTTATAATTTATTCCTAATGCGTA  
TTCTTAGATTTTTATAATCATTTTTATTTCTAGAAGCTATTTATGTAATGA  
TCTAGATAGTACTATTTTCTGACCTGATATTCAAATTCGTATGAATTTCT  
TTATAGGTCATTAGTTAATTAGTTGAATCATTGCTTCTTCTTTTCTATT  
TATATAAATCGGTTCGTATTGTTCTACTTATANAGTTGTTGAACGCATCCC  
TTTTATTTGTTGGTATCTCTATGTAACATACTTTTATATTACGATT  
TAACGTATAATAATATTTTTACCCTGATTATCCATTGTCATGTTTCGTACT  
TTCAGTATTCTTTATCATATTATTGAATATTTG

## &gt;Sequence 888

CCCTTTAGCGTGTGCGCGCCGAGGTACCATTAACCGTCTTTTAAAAAATT  
ATTATTAGTTTCAGTGCTGTTTCTTGAGGGAGCACCGGTGGTGCAGGTCN  
ATGTTGTCTTCTTAATTACAAGTCTGCAGTTGCCAGCTCTAGTTTCTTAA  
AAGCGGACATAGTATCTATGACTTCTGACTACCACATTCATGCTGAGATT  
TCCTGCTCCACTTTATATACTTTTGACATAAAATATGTTTTACCGTAGCAA  
AATGTTTTTTAATCACTTTTTCTTTTATTAGATAACTTTTTAATTTTCTGC  
CTCGAGTTTATTTATGTTTCATCTTCTTTTATAAAAAATTGTCAATTCTC  
CTTTCTAACTTTTTTACTTTTAAATTAATATATATACGATTCTTCTGC  
TAATCGCTGCTTCTCTTATCATTTCTAATATTAACCTTTTTATCTAAATT  
CCTACGTACTTACTTTTCTTCATCTTTTTTATTTATTAATACTAATACAA  
TCGATATATTTTCGTCTTTATGGCTTTTATTTATCTCTTTTTATCAATT  
AATATAATTTTCATATTTCTTTATCTTCTCATCTTTTCTCGGCTTATTTT  
CTCTTTATCTATAAATGTATTAATTTTGTATAAATCTTTCTGTTATGT  
ATCACTTATTTCTTCTTCATCTTCTCATGTTAAAAATATTCATTTAGAT  
TATATTTAACTTTTCTTCAAATATGGCACTTACTCCTTCTCTTTACTCT  
TTTACTAATACCATTTAAAAAATAAATCATAGTTTCATGTTTATCTAAGT  
CCTGCCTATTTATCTTTTACTATATTAATGCTGTAAATTTATACGTATGT  
TGATT

## &gt;Sequence 889

GGTACTAAACAGGCCAGATATATTCTCTCATTAACCTTATTGCCTAGCAGA  
GAAGACCAACATTTTTAAAAGTTTATACATATAGTTAATTTCTATTATGA  
TTATATGATACAAATGGAAGTGCTATGAAAATGTGGAACAAAAGAGAAT  
AATCTGTCTGAACAGTCAAAGAAGACTTCTGGGAGATGACATCTGAGCTA  
AAGGTTGAACAAGGAATTGGAACACAGCTGGCATGTGCAAAAAGACTTGAA  
GACTGAAGGAGTTAGCCTTTAAAAAATAAAGAAAGTTCTATTTGGCCAG  
AGCAGAGTTTCAAATAGTGCCTCACAGGCCACGTTAAAGACCTGAGGCCT  
TTATTCTAGGAGAATAGGGAGCTGCTCAAGGAATTTAAGCTTGAGAGTGA

Table 2

CAAGATCAGATTTGCAATGCCTTTCAAGAGGTAGTTACAAGGAGTTGGGT  
CTCTGACCCTTTGCAATTATACCCATTCTAACTAAGAATGGGGAACTTT  
TATATCCTGTCTTTAATGAGTGAGAAAAGAAAGAGGAAAAATAAATAAGTT  
CCTTGCCTGGGGGTCGTTTCGAAAGGG

>Sequence 890

ACTTGCCTTGCAAAATTATATTACAAGAAGAAGCACACTTGTTATAGAAG  
TGCTGAATTGTATGGAACCTAAATCTGTCAAGTTACCCTGTCTTTCAGGG  
TCCGTCTCCCCACCTCCCAGACCTCATTATATTATCCCGAAAAGAACACG  
ATCTCTTTAAGGCTAGGCAAGTATTGCGCTGATGAGCCAGGGACTGCCCCA  
CCAATTGGCAGGCCCATTTGGGTGATAAATGTCCAAGGACCTCTAGGCTGA  
CGACACATTTTTCATCATTAATCCAGTCTATTGTAACCAGGGCCACTCAC  
ATTGATTCCGACTAGGGGGCATCATCTGCTGTTAAGAGGGTGATGACTCG  
CTAAAAATGAGGGCCTGAAACTAATCAAATATATTTAGAGCCTTCCCTGG  
CAACTTGCTGGGAGAGCAGCAGTAGACAGCTAATAGGGGAGCCCCAGACA  
GGTAGCGCGGAGCTCACCATGCTTTGGATGGGAATGTGAGAAATCCATTT  
TGGAAGCCTGGTGTGGAATTCCAGCTATTATACATTGTAGTACCTTCGCC  
GCGACCACGCTTAGGGGC

>Sequence 891

ACCACTTCATGGCTAAGCATGTGCGGGATGGAACCGGTCTTCCTGGGCTT  
ACATCTTTTGCTTTGCCCTCTTCTTTCCCTGTGATGAGTCTTGGGGTAGGCC  
TCAAAGGCTGAATCTTCAATATAAATACAACAGTGAATGAACAACAAATG  
GTTATTTTAAAGATCTATCTTGGATGGCTATTTAATTTCACTAAACCCCA  
GGTTGCTCACCTGTTGACTGGAACAAACAATAGTCCCTTCTTCATGCGGG  
CATGGTGAGGGTTTTAACCCTCGCATTGTCCACAAAGACCGCTTAAATTAT  
AGTAGATGCTCAGCAATCTGAGCTATTATTTTATCACGACTGTCAGAG  
GTCAGATCAGGCTTCGGGGTCAGACACACCTGGGTTCAAATCCCAGCAGG  
GCCACTTACTGTTGGAGCCGGGGCAAGTCAGTTATTCTTCCCTGAGGGTC  
AGTTTTCTCATCCCTAAAAATCCAATAATACTCATCTTTCAATGAT  
GCCGGGAGGTCTTAAAAATAATATAAGTTTCAGAATGATAAAACAGGCTGG  
CACAAATTGGATGGCAGCCAATGTCCTTGCACCCCTGTGTCTCCTGCCTT  
AATTTGTGTTGAGGAATAAGGCCAAATGTGTACCTCGGCCGCGACCCCGC  
T

>Sequence 892

ACTACAGAACAGGAACAATCTGCCATGTGTGTTTACAACTTCAGAAAGCC  
CTGGAATGACAGTTGCCAGGGCAGTTCTTCTGAATTTGCAGGTCAGAAAT  
AGTGGATGATGAATTTTTTTCACACATGGTCAACTCTGTGCCACCTGCTA  
CAAGATGTTGGAACAGGTATATTTATTTAATGATGATCAATGATTCT  
TTCCAACATCAGGGAACATCAGGGAATCAGCTAGTATATGCTCTTTTG  
AGGATTTTCAGCTCCAAATCCTGAAAGCATTGATGAACTACATAAAATTA  
CTTTTGTTAAGCAAATCATCATAAGTAAATCCAGTCATATGAATCTGGAA  
GGATTTGCTGGTGGGCACTAACACTGACCACATGTTTCAGTGTGGGCAAG  
TTTACCATCCATCACGGATTTTGTGCTTGGTGAATTGTAGGGAGTGAAAG  
AGAGAAGGATGTTTGGCCAGTTGTCTTTTTTACCTATATCTGAAATTCT  
CACTTAGTCAAGAACAAAACATTTAGACATTTAATTTCTTTTGGGGTTN  
TAAGTGATACATGTTTAAATTTGTATATTTAGAAAAAATTGTTTTTATTA  
TATATAATTTATAAATCAGTGGAGAGACAATTTATACTGAGAAAAATTTT  
AATTGGAAGTTTGTGTTCTTTCTCACACACACGGACAACCCCACTTTTT  
ATTGCTTCTTGAACTTTGCAAAAATGGTTAAACCCCTTCCACATTCATT  
TGAAGGGAGGAG

>Sequence 893

ACTAGCATTAATAAAGTCCTACAAATTATTAGAGAGAAAAATACAGGTTGC  
ACGCAAAGCATAAAGAATGAGAATGGCATAGACATCTTAACAGTGCCACA  
GAAACTAAAAAGTAGTTCTGAGTAAAAATGAACTATTTACCCAGCCAAAC  
CGTTAATTAGGTATAAAGGTAGAGTTAAGACATTTATAGACATACAAGAT  
ATTAAGATTACTGAGTCAATTGATATTTCAACAGGGGTGCAAAATGGAGAAA  
AAGTCTTTTCAACAAATAGTGGTGGGACAAATGGATAGCCACATGCAAAA



Table 2

GAACATATATATAAGAGCTAAAACCATAATGCTTTTAGAAGAAAATATAG  
GGTTTATCTTCATGACCTTGAATTTGACAAAGGATTCTTGGACATGACAC  
CAAAAGCACATGCAACAAAAGAAAAATTGGAGTGATATGATTAATATGGT  
GGAACAGGAAGTCTTCAGCTTGCATCCTCCGCCTTCTTGACACAAACAAC  
AATCTGGCAGCCATCCATGGACAAAAGTGCCTCTGTGGGAGCTCTAGGAT  
CCAGGTAAGAAGGTATGAAACCCTGGTAAAGCCCAAGACGGAGGAGAGGT  
ACCTCGGCCGCGACACGCTAGGGGC

>Sequence 894

GGTACAGGTCACACAGCACATCAGTGGCTACATGTGAGCTCAGACCTGGG  
TCTGCTGCTGTCTGTCTTCCCAATATCCATGACCTTGAAGTATGCAGGTG  
TCCAGGGATACGTCCATCCCCGTCTGTGGAGCCCAGAGCACGGAAGCC  
TGGCCCTCCGAGGAGACAGAAGGGAGTGTGGACACCATGACGAGAGCTT  
GGCAGAATAAATAACTTCTTTAAACAATTTTACGGCATGAAGAAATCTGG  
ACCACTTTATTAAATGGGATTTCTGCCACAAACCTTGAAGAATCACATC  
ATCT

>Sequence 895

GGTACAGGTCACACAGCACATCAGTGGCTACATGTGAGCTCAGACCTGGG  
TCTGCTGCTGTCTGTCTTCCCAATATCCATGACCTTGAAGTATGCAGGTG  
TCCAGGGATACGTCCATCCCCGTCTGTGGAGCCCAGAGCACGGAAGCC  
TGGCCCTCCGAGGAGACAGAAGGGAGTGTGGACACCATGACGAGAGCTT  
GGCAGAATAAATAACTTCTTTAAACAATTTTACGGCATGAAGAAATCTGG  
ACCACTTTATTAAATGGGATTTCTGCCACAAACCTTGAAGAATCACATC  
ATCT

>Sequence 896

CCCTTAGCGTGGTGC GCGGCGAGGTACCTTGAGCTGCCTCAGCACTCTTTT  
GCCATTCGTGCTAGAAACAGCCAAAGCCAGACAACCAAATTACAGATGCT  
TAAATGTTAATGCCAGACACCAAGGCTCCGTGAACCTTCCCTGTTGAACAT  
CTGACCCCGACTACTTGAGGACATGAAACCTAACTGTGCAGCTAATTACA  
CCTTCCAAGGGCAATGACATCGGGTCTATGATTTTATTTCAGGAAAGCAA  
TAAGGCAATCGGGGTCACTGTGAACATCATTGAAGGGAAGTAACTTCTT  
AGCTTTATTCCACAAATGGTCTATC

>Sequence 897

GGTACCGGTGTAGTGTATAGAATGGTTTGTATCAAACCTAGATCTACATTA  
CTTTACTAGAAATATAGGGCAATAATAAAATTTCCAAAGCCAAACTGAAC  
GATAATATATATTTCTTTAGAAAGTCTCAGAAAACCCATTCTCTGAATGAC  
AAAACGGAGAGATAACTTACAACCTAGGTGATATCTGAAGTTAAATTTCT  
TGGTTATCTATTTCAAAAATTCACAACCTATTCTGCACTAAAATGTTTCAC  
TGGGTACGGCACAGTGGCTCATGCCTGTAATCCCAACACGTTGGCAACCT  
GAGGCAAGAGGA

>Sequence 898

CCCTTTTCGAGCGGGCGCCCGGNGCAGGNNTACGCGGGTTGGACTCTTCT  
GGTTTTTAAAACTTTCTNGGACCATTGACTTTGAAACCCGGCCAAAGAAG  
GGCTGNNGGGCTTGGTGGATTGTAGCGCCAACCTTAAAAATTGGTTGTCAA  
AAAAAAATTACGGGTACGTCCCTTTCCAAGGTGGAAAAAGCCGGACTTT  
TTTTTTTTTTTTTCCACAAAAAGAACCTTTTTTTTTTTTAAAGGGGGG  
GAAAAAGAAGTATAAAGGAAAAATTTGGGGGGGATTCTTCCGGGCCCCG  
C

>Sequence 899

ACTGACAGATGCCTGGGTAACCATGTCCAATGTTCAATTTACTTTCTGCT  
GGACAGATAGAAGGCTCTCCTGCAGCCTTTTCGTCTTCGGGTGTCCGCTG  
GTAAGAAATCCGCCACACAAGAAAGCACTGACATTTGGAGCCTCATCAGG  
TTCAGAGTTGAAAGTGAATAAAGGATAATAATCTTTGTCTTATTTCTT  
TGTTTTAATGTTTTCCCAACTTACGTTAGGACAATGTCAACAAAGACAGAT  
GTCCCTAATAGTAATTGCAGGACATGTGTTTTCTCATTCCTATCA

>Sequence 900

CCCTTTTGAGCGGCCCGCCCGGGCAGGTACATTGGAGGGGGCCATATCCAGG

261  
Table 2

ACCTGTGATGTGTATAGGCAGACCAGACTGGTAGGGAAGAAAAGCAGAGA  
TATCAAGTGGGGGACATGTGTTTGGCCCTGGGGCTCTATTGGCCTGGAATT  
TTGTGGTAGGAGGAAGGCACAAAAAGTAGACTGGGATTACAGGCGTGTGC  
CACCGCGCCCGGCCTAAAGTGTGTTTATAATAAAACCTCAATCTGAAAC  
ATTTTAATAAAACCTTTAGATGACTAGATTTATGTTTATTTTGATTAT  
GTTTATATGAATAAAAAAAGAAAAAGACGAGG

&gt;Sequence 901

GGTACCTATGAGATGCATTTGAAAACCTACCTTGTTTATATGTTTCTTCT  
GTTGCAATTTCTCCATTACCTGGAATAGCTGCTTTGGACGGCAAACCAA  
GCAATGCCCTTTCACAGCTGTGGGATGAATGGGGAAAGAAGTCTTGGTAA  
GGAAGCAATTCAGAGAACATGGGAGCATCTCATGGCAGCAGTCACAATTT  
TGTGTTGCGTAATATTTTCAGGAACCTTGCAACCTGATAACTTGTGCCTGC  
CTGTCTGTAGGCCCTTAATGATGTTTTATTGAATTTTGGT

&gt;Sequence 902

GGTACTTCTATACAAGGCAAAATGAACTCTAAGTAAAAAAGAAAATCACA  
CTTCTAAACACAAATTAACCATTTTCAGTATTTAATTGCTCCTAAAAGGTG  
TATTCTACTTCATTAAATGTAAGAGAAAAAGTTACCTACATTACGCAGTT  
TAAGAAACAGGATAAACTNTAGCATATAAACAGTCTGATTACATTTTCAC  
ACTTTCACCATCTTATTTATACTCTACATTAGATAATCTTTAAATTCCA  
TCATAAGGTTTCCCATGTAACTCCATATAAAATTTTGTAATCCTGCCCA  
CCCCATGTCAACTCAGTGTATACN

&gt;Sequence 903

GGTACTGGGTGACAGGAGAGAGCTCATGTGACCCGAGTCTGGGTGGTCTC  
AGGCATGGTATAAAGAACTAGGCCAACCAACTGCACTAGACATAGAACT  
AGCTGAATAAACTCATCCACTCCGATTTTCATTTAGGTATCTCATGAGAA  
ACTAGAGGACAAAAACAATTCCAAAATTAACAAAACAAAGTTTACTCTAG  
CCATCAGTGCCAATGAACATAAATGACTGCCTGAGAGTTATATTAACAAA  
ATAATTAATTCAGACGAATTAAGGAATTAACCAGCTATGGGAAATATAC  
ACTCTATACTTAGATGCACATTT

&gt;Sequence 904

ACTTAAATAAAATAAAATTAATAACAAATCATTTTAGAGATAAAGAGTGAA  
GTTACTGAAAAAGGTGACTAGGACTCTGTTTATGAAGAAAGGTTAGTATT  
TAAATCATGAAAAAAGTAAGAATACTTAATTATTCAAGTAACTTAAAAAT  
TGTAATTCAGAATGGCTTTTATGTATCTAAAACAATCTGGGCTGCTATAA  
AAATTCAGTCAACTTCTAACTTCCAAACACAAAATAGTTATACTCAGTC  
TAAGAATATCCGACCTACCGTGCAGGACCAGAGGGCTCATCTCT

&gt;Sequence 905

ACTTAAATAAAATAAAATTAATAACAAATCATTTTAGAGATAAAGAGTGAA  
GTTACTGAAAAAGGTGACTAGGACTCTGTTTATGAAGAAAGGTTAGTATT  
TAAATCATGAAAAAAGTAAGAATACTTTATTATTCAAGTAACTTAAAA  
TTGTAATTCAAATTGGCTTTTATGGTATCTAAAACAATCTGGGCTGCTAT  
AAAAATTCAGTCAACTTCTAACTTCCAAACACAAAATAGTTATACTCAG  
TCTAAGAATATCCGACCTACCGTGCAGGACCAGAGGGCTCATCTCTTGCC  
GAGCTTATTACAGTTTTG

&gt;Sequence 906

GGTACCTTTTGCTTTAAATGCATACTAAGCTGTGAATGACTGATATCAGAG  
ACTTCTTGGAAGTAGGTTTCATAGGATGGAGGACAAATGAAACTTTATG  
GGCGAAGAAAGAAGGGTCAGTTGGGTGGTGCATTGAAATAAGTGGTTCCA  
AAAGCAAACTAGGTCAACTTTTAACTGGCTAGTGAATAAGGATTCTC  
AGGATACAAAAGCAAGGAGAAGACAGGAATAAATCAGGACTCCAACAGGC  
AGAACAGGATTTATTTAGGGCATGCAATGTGGAGGGCCCTAATGGGAACA  
TGACAGTGTT

&gt;Sequence 907

GGTACAAATTGCATTGTCAATTTATATTTGTTTCCCCACTAAAGCCTCCA  
AACCTTGCTTGTTTGTTTAAGTATCCCTGGGGCTCATCACAGGGCCTGT  
TGAAGTTCTTTTGAATGAATTGAAGAATGTGAATAATAGTTCTAGTTCT

Table 2

TCGGGATAATGGAAAGCTAATAAGGTTTATGCTAGAGGCTCTTACTGCTG  
GGACTCTCTTCTTGTGTTTTGTTTTAGGAAAAAAGCTAGAAAATCCAAC  
TTCAGCTAGAGTAACAGTAGTAACTGACTTGAAAGTATGTCAAAACANAA  
ACTGTTAAG

>Sequence 908

GGTACCTATGAGATGCATTTGAAAACTTACCTTGTTTATATGTTTCTTCT  
GTTGCAATTTCTTCCATTACCTGGAATAGCTGCTTTGGACGGCAAACCAA  
GCAATGCCCTTTCACAGCTGTGGGATGAATGGGGAAAGAAGTCTTGGTAA  
GGAAGCAATTGAGAGAACATGGAAGCATCTCATGGCAGCAGTCACAATTT  
TGTGTTGCGTAATATTTTCAGGAACCTTGCAACCTGATAACTTGTGCCTGC  
CTGTCTGTAGGCCCTTTAATGATGTTTTATTGAATTTTGTT

>Sequence 909

ACCCTCTTCTCAATTTTGCTATGAACTTAAAACTGCTCTTAAAAAATAT  
TTTTTTAAAAAGGAGGGAGTTATTATCAGAGATCCCATAGACCTTAAA  
GGATAATGAAAGAATGCTATGGATAACTTCATGCTAAAACTNCAACAAC  
TTAGAAGTATGAAATGAATGAACTTCTCAAAAAAATACAAGTTACCAAA  
ATTGACATGAATAATAACAGAAAATCTGAATAACGCTCTAACTATTAAAG  
AACGTGAATTTGTCAAAAGCTTCCCCAAAATAAAATTCCAGGACCAGATG  
GT

>Sequence 910

ACTCAATGGGGTAGGGTGTCTTGGGATCTGACTGTTTCTTAGACCTTCAA  
TGCTTCTTGGCTTTCCTCACTGCTAGTTATAATTCAGTTTTCTCAGGTCT  
AAGTCATTCATCACTCTTTTGTCTGCTTTTCAGCTTCCAAAAATTCATTG  
CTATTATCTCCTCTCCTGTTTTCCCTATGGTGTGTTTGTGTCTTTTTCTT  
TAAAAAAATTCCTTTGTGGTGGTTTTAGGGGAGTTTTTGGGAATATATAT  
TTAATGTACCTCTGGCGAGACCGCGCTTAGGCGATATCCTGCACACTG

>Sequence 911

GGTACAACCTAGCCAGCTGCACAGCAGCTCTCCAAGAAAAAGGTGTATAT  
TAGACAGATTCAATTATTCATCTTGTGATTATGAGTAGTAACCAAATTGT  
CTATGTAATTTTCTTATGGTGAACCTACCCAAAGCAAGGCCTCACCTTAGG  
CTACCAGCTTGACTCTTAAAGTGGACAGAAAGAGCCAAAGGCTAAAAGGTT  
TGTGAGAAACCTCATGAGCACTGAGTGTCTAGTTCCAGATGAAAACCGG  
TTTCAGGTATGAAGCAAGAGGGAGTGCTAATTGGTAGAAGTAATTACATC  
TTT

>Sequence 912

CCCTTAGCGGCCCGCCCGGGCAGGTACAACAGAGCACAATGCTTAGATTG  
GGTGGATTGTAATAAGATGAAAGATAAATTATGATTTTGTTCAGTGTTA  
AAATAAAACTAAGACACTTAAGGACCACAAAAATTTAGACCAAAGTATCT  
TGTAATTTCTACCTGGTGAAAGTTTGATATAGCACACATATGACTTTTCT  
ATATTATTTTCTGTTTTGAGTTTAGTAGTAAGCAGATGGTTTGATTTTC  
TTAGTTGCAACTAAGTGATCAGTTTCATGATTTCTCTTACTATGAAACA  
TTTTTTTTTTTTCTTAACAGTTATCTTA

>Sequence 913

ACCACAAAGTTATTGCCTACATCCAGGTCAAGAAGATCTTCTACTGTATT  
TTCTTCTAAGAGCTTTTACATATAGGTCAATGATCAATCTAAAATTAAGA  
GTTGTGCAATCATTAACCTTAGCTTTAGACTGGTATACTAATTGGTTTGT  
ATACGAACTGGGTAAAGGCATAGGACACATGCAGGCTGTGTTCAATTCA  
CAGCAGGGCTCTGTAATTAGGCAATAATTACTTACCATCATACCTAGTGA  
GGCAATATGGGAGAAACAAAACAGGCCATACAGCTTCACTATTATTCTA  
CT

>Sequence 914

AAAACCTTAGCGNGGNCGCGGCCGAGGGACTNGAGGACCAAGCCACAGAG  
CAAGCGCTAAAAAAAAGNNACTAGAACCTNACCACTGNNNCACGCACC  
CCAATTTCTATAAAATGTATCAGTAAAAAAAACAATTATCTAAAGTTTTT  
TAAAGTAAAGAAAAATTATTTATCATAGGTAACCTGGTGTCAACTAGG  
TAACTGATCTATTTAATTTAGGAAGTTAGTGTCTTCCTTCCTCAATTT

Table 2

CAGATTTTCTGAGGGGAGGCTCAAAAGGCCCGAGAGGCTCTCTACAAGGA  
GAAAGCAAGCCAGAGAATCTGA

>Sequence 915

GGTACCAGAAATGGTAAATATATGAGTAAATATAACACACTTTTTCTTT  
TAAATTTTATTTAAAAGGTAAACACTTTGCAGCAAAATAATTAACAATGT  
ATTGTGGGTATATAGTAGTAAGATGTTTGACATAAAATTACATAAAATAAT  
TGGAGCAGGGAAATAGAAGTGTGTTGTTGAAATGGTTTGATATTATATAT  
GAAGTGGTATATTATTATTTCAAGGTAGCCTTGATAAGTTAAAGGTTACA  
TATTGTAAACCTACAATAATCATTACAAAATAAAGAGATATAACAGTAA  
GG

>Sequence 916

GGTACTTCATAGAGGTCCAGACCCCTTGCGTCTGGCATTCCTTTGGTCTA  
TAATTCAGTAAACTCTGCTAAAAAGGAAACGAGACTAGCTTGCTGTGGCC  
CCTTAAGCGACCCAGGGTAGCTTGTGATGGTTCAGATTATGATTTGTTCT  
AGAGCTTTTCCAGAGGCAGATGTTGAGGAGTTTATCCTATTTGTCCTT  
CCCTTTAAACAAACAAAAGTGCCGGCTGGACGCAGTGGCTCATGCTGGTA  
ATCCAGCATTTCTGAGAGGCTGAGGCAGGCGGATCACCTGAGGTCAGGG

>Sequence 917

ACTGCCTGGCATGCATCTTCTCGATGGTCTGTTATCTTGTGGGAATGACA  
TTCGTTAAGTTGTTTTCTGTGTGCATCCACCCAAATAAAGAATGTTTCA  
TCAGCAAAGTGAATTGCCGTATAGTCATCAGACTCTAGAAATAAATTATC  
AACGATGACTGCAGTGGGTGAGGCTGTTTGTATTACATCAGCTTGAGAA  
CAGAGTAAAGTGAGTTTCATATTTTCTGAGTCTTGAATTCTCATTTTAG  
ACATCTGTTTCAGAAGCTTTCTAAGCCATGGAGTATTCTAAATGAGCA

>Sequence 918

GGTACTACAATTATAAAGTTACCAATAACTTTACATTAAGAAAATCATT  
TCTTCCCCTTGAAAACAAAGTATGTCCTCACTTTCCCTGCTCTTTTATTC  
ATGGCAGTATGAAATGTGTCCCTGATTCCCTCCGACCTGCCACAGAATAC  
TGAAACAGTGGCCGTGGGAAGAAATACCAGATGGTATGCATATGGCTTGG  
GGAACAGCTTTCAGCAGTGGTCACTTGTCTTTTTTTAATGCATTTCAAAA  
TGTGTTTGGTTAGCAAAAAATAATGAGATAATTCCTCAAATAAATGG

>Sequence 919

GGTACAACAATTTATCCATTTCCTTTAGCAATAGTTGGACACTTAGAATGT  
AAAACGTGTTCAAACAAATTGGTATATTGGAGTTTGGGTAGAAAGAGGGC  
GTTGGAAGAGGAGGAAAAAGAGGGTGAGATGATACATTAATATAAATTACT  
GAAAGGTGGTGTTCACATTTAGAATTTTTTTTTTAAGTTGCATGTTTAGG  
ATTTTAGTGCTCAGGAGGAAAGAGGCCAGTGTGCCCCTTCAGACCATC  
GCTGCCATTTCCCTGTAATATATCGTGTGTAGAGGAACCTAATGCCTGCA  
G

>Sequence 920

GGTACTGCTATTTCTAGTTCAAAATCACAGATTTTCAGATTGAAAAAATT  
TCAATCCACTTATTTTCAAATGAGATAACTGGGACAAAGAGAAATCCA  
TGACTTGCCCAAGATTACCTACAGTTTAACTGTACGCGGGGCTTAAACC  
ACAATCCACATCTCCTGACTCCCAATCCTTTCACTTAAAAACAAACAAGCA  
CACAAACAAAAAGATTCTAATAAAGTGGAATAATTTTAAGAAAGGCAA  
GTATCACTATTTTACAAGGAAAAAATTAAATCATTTTAAACAGATTGGC

>Sequence 921

GGTACTCACATGTAAACTTCTACTTTCCCCTTCAGATTACAGCAACCATC  
ATGCCAAAGCTATACACTCTCAGGGAATCCCTGTGGATTTCACTGATGAC  
CACTTGACCAACTATCATAAAGATCAAGGCCAGGGGTCTCAAACCTCTCA  
ACATTTGTGTGCTCATCTCCCCTTCACCCAGAGACTCCCCAGGGCTGCTG  
GGCCACACTTTGGTTTGTGTTGACTGGAACATAGTTTGAAAGGGATGAAAA  
TTTCCAAAAGGTGTTAATAGACACATAAAGATTTTTAAATATTAAAAAAA  
AGAAAAAGAAAGAA

>Sequence 922

GGTACATACAGTATGCACTCCCTTCTCTGTGTTTTTGTCTGAGTTGATG

264  
Table 2

ATTTGGAGCTCAAAGAGCTAGCGGAGGGAAAAGCTGAAGCCATTCAAACA  
CATAATGAGAATTGGAGATGTAAAAGAAGGCTGAGTTCTAGGAGTTGCAA  
CAACTTAGGAGATAACAGAACCAATTCGGAATGAGCAGGAATTGTAGGAA  
TGCAGGCGAGGACTAGAAGAATCAGCTACATGCTGTTTACTGGCAAAGCA  
GGAGAAATGTGACTGAGGACAGTATGCCACTGAAAAGCTGATGAAAGAGGA  
GGGAGACAGGAGGA

>Sequence 923

GGTACTGTTGTCTCATGCTCTCTTTCTGTTAATAGCACCTCAATTCTACT  
CTGGGGGACATTCTCTCTCTTTTGGTCTGGAATGTCCCCTGGCTTCA  
GGGACAGCTCAACATGGGCCTGGACAGTCAAATTCATCCCCAAGCTTGG  
GACTCAGGGAGACCATCCAGTGAAGTCTTCTGAAAGTGTGGGAAGGCAGA  
GCTCCCTTTCTGCGGGGTGCTGAGTGATGGGACGACAGTGTGGAGCTACT  
GNGCTCTCCAAGCCGGTGCCAGGACCAGCCTGCCTGAGAACGAAGCCAG  
CA

>Sequence 924

ACTTGCCTTGCAAAATTATATTACAAGAAGAAGCACACTTGTTATAGAAG  
TGCTGAATTGTATGGAACCTAAATCTGTCAAGTTACCTGTCTTTCAGGTC  
CGTCTCCCCACCTCCCGAGCCTCATTATATTATCCCGAAAAGAACAGAT  
CTCTTTAAGGCTAGGCAAGTATTGCGCTGATGAGCCAGGGACTGCCCACC  
AATTGGCAGGCCCATTTGGGTGATAAATGTCCAAGGACCTCTAGGCTGACG  
ACACATTTTTCATCATTAATCCAGCCTATTGTAACCAGGGCCACTCACAT  
TGATT

>Sequence 925

GGTACCTACTGTGTTGAGCCCTCTTCCATCTCCTGTAGTTTCGTCAGATC  
CTGGAAGTGTCCCTGACGGAGAAAGTTTACAAAATGAACTTCGAACTGAA  
GTATCCCGATTGAAACGGAGATCTAAAGATCTGAATTGCCTTTATCCCAG  
AAAAAGACTTGTGAAATCTGAAAGTTCAGAGTCTCTTCTTCTCAGACAA  
CTGGTAATAGTAATCACTATCATCATCATGTGACATCCAGAAAGCCACAA  
ACAGAGCGGTCTTACCAGTGAAGTGTCCATTGGTTCCAATTCCTAGCT

>Sequence 926

GGTACCCAAACACAAGATTGCTAATAGACTGCTAATAATAGAACTTAATA  
AATGAAATAATTTATTTCAATTAATTGTTGCTTGAATACAGAAAGTGCTT  
AGTAAATATTGAATGAATCAACAAAGTACCTCCCAATATAGAGAAATCAC  
TTCTGAAAAGGATAAAACCAAGTTGATCCTATTCAATCGAAGGCATCTTT  
TGGGGCTGTTACAGTTATTTCTTTATTTGAAGAAGGAATATGATATACC  
TACTTTGTTCCAAGTCACTGCTTATAATGTGCTAATGGTACCT

>Sequence 927

GGTACCTGTGAAGACAGCTACACCTGGTTTCCTCCCTCATGCCTTGATCC  
CCAGAACTGCTACCTTACACGGCTGGAGCACTCCCAAGCTGTGAATGTC  
ATCTCAACAACCTCAGCCAGAGTGTCAATTTCTGTGAGAGAACAAAGATT  
TGGGGCACTTTCAAAATTAATGAAAGGTTTACAAATGACCTTTTGAATTC  
ATCTTCTGCTATATACTCCAAATATGCAAAATGGAATTGAAATTCACTTA  
AAAAAGCATATGAAAGAATTCAAGGTTTGAAGTCGGTTCAGGTCACCCAA  
TTTCGAAT

>Sequence 928

GGTACAAGAAAAGAAAACAAATACCAAGTATTTACAGATCCAGAGAAAGTT  
CACAAGAATGGGAGGATGCCAGTTCCAATGCTTTGTAAAGTCAAAAATAG  
CCACATTGCAAAACAAACAAAAAAAACGAGAACGTTCCCGAGTGTGCCT  
CCAAAACATAAAGGAGAAAATCATACAGAAAAACCTCATGTAAGGGTTGG  
AACTTGAGCAACCAGCTATCCAAATACAGAGGGGAATCCTCGCTTAGCTA  
GGGCATGGCCTGAGAGAAGCCCCTTCTGCTTTCAGAGCCTACAAGTAGT  
CCCCAG

>Sequence 929

GGTACTTAAGCAATAAAATCTGAGCAATTATCAGGTTATTTTATTGCATTT  
CTAATGAGTTCTTCTAAAAAAGTCAATCAATTATCACTGCTATATATGT  
TCTGTGTGAAGGAGTGCTTGAGAGTCTTTAATTGTAACATTTATTAAAT

Table 2

AAGAATAAGAGGACATTTTTAAAGGAATTAAAGGAACATTAATTCCTTCA  
TAAATGTATAGTGCTTAAGCTCTGCTTTAAAAGGTCTTCCATGTGCTCT  
TGGGTAACCACTTAGGGCTGAATTCATAGTATAAATATCAATAAATGTTG  
CAATCACAAAT

>Sequence 930

GGTACGCGGGTGGGAAAGGGAGGATGACTCATTACTCTGAAATCTGGGC  
CCAGGAAGGACCTCTOCCATCCTTGGAGCCTCCTCATTCTCCTGTCTCTC  
ACTGTCCCCCACCTCTACCATGATGTCCTCATTCTGGGAACCCCGAGCA  
GGGATAGTGGCTTGGGCCCTTCGTCTGGCTTTTCTCCCCACACTTGCTTC  
CTTCTAACATTTTCTCCCTCATCTGACATGGAAGGGGCAATGGTTAAGCC  
AGAAGGGAGGGCAGAAAACAATGGCCCCACATCCTGGCTCTGCCTCTGAC  
AAGCTGAGT

>Sequence 931

ACGCGGGATTTAGAGACAGGGTCTGGCTCTTTTGGCCAGGCTGGAGTGCA  
GTGGAAACAATCATGGCTCACTGCAGCCTCACCTCCTGGGCTCAAGAGAT  
CCTCCACCTCAGTCTCCCTAATAGGTAGAACTACAGGTGCACACCACCA  
CGCCTGGCTAATTTAAAAATTTTTTTATAGAGACAAGGTCTCACTATGT  
TGCCACACTGGTAAAGTATTTTAAATTCGAGACATGAATAATGATGCA  
AATCATCCTTTCTATGGGTCTGATTCTGTTCTGCTACCTATTCAAGGAC  
TAAA

>Sequence 932

GGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGATTTTATAGTAGACA  
CGGGTTTTCGCCGTGTTAGTCAGGATGGTCTCCATCTCCTGACCTCCTGA  
TCATCCGCCTTGGCCTCCCAAGTGCTGGAATTACAGGCATGAGCCACCGT  
ATCTGGCCAGAGAAAATTTTTTAATATAAAATTTTTCAGTTACCACTTAAA  
GGGAAATATGATTAAAAAAACTAAATAAAGAAGAGCTTTAGTAAAACCAT  
GCCCTCTTGCTAATCTATTAAGAGTCAAACTCTGAAC

>Sequence 933

ACAGTATGTTTCCACTTATGGACAGATAATTACGTAGTAAACATAGAAAC  
ACACGAACTGAAAGGACACACACCAGTATCAGAACTAAGTCACCCATGGG  
GAGGGACAGAAGGAAATAGGATGGAAAGGGGTTGAGGGACTTCAACTGTA  
TTTGTGATGTTTTAGTTCTTTAAACAAAAATCTAAATGACATTTGAAAT  
ATGAAACAAACGCAGAAAACATCAAAATGTCAACAATACTTAAACCTGAG  
TGTTGGGTGCCTGAATGTTATATTGGTCTCTGCAN

>Sequence 934

ACCCAGTATATGAGCAATTGCTCAGCAGTGTGTTGGATATAGGGAGTGGAT  
AGCTATTATTAATTGCAGATTATTTTGAAGGAAAAACACACAGAGAATT  
ATGTATCTTTTCAGTGTAATGTTAGTTCTAAAAACAATCATATTATTTAC  
AAAGCTGCAGTTATAGAACACAATTCTGATTTCTGCCTCACCCCCACGGT  
TAATACTGTAAACATTTCTACGTTTCATCTGATAGTGTTATTAATAAT  
AGCTGTTATTTTTAATAGCTATACTAAACATAAAAAATGTTTAGGCCAGG  
CGTG

>Sequence 935

GGTACCTAATTCATAAGATAAGGATTAATGAATTAATAATATATAAATCC  
CTTAGATAACAATGCTAGGCATATGTTAAGCACTATGTTAGTATCATCAA  
ATGTTGTTGTTACTGTTATGGAATTTATCAAAAATATGTAATTATATGTT  
TCGTAGTGATTATTCATCACCCCTACTGGACTCTAAGGTCTGTGAGGATA  
TGTCTATTTGGTTTACCACTGTATCCTCAACAACTGCTGGTTGTCCCTAT  
TGTAGGTGTTAGGTATTAAGTGCATGATAGTGAATACATAAAGGTTA

>Sequence 936

GGTACTACAGATTAAGTATTAATATGCTGTGAGTGCAGATAGAGAACAGA  
AACAGGCTGTTTGATTTACCATGGTCAATGCTCTGATGTGCCAAACACA  
GGAGGTTGTGGGAACATATAGACAGTGACCAAACCTTTAATGAATACAGG  
AAGATTTTCTGGAAAAGATGACATGTAGCAGACAGCTGACAGACGAGTTT  
ACCAGGTCAGAACTTAAGTGATAATAATCTTTTTATCATAAAATTTTAA  
GTGTGGTAGAGAATAAAAGTTTTGAATTAATGTTGAATGAAATGTGTTA

266  
Table 2

TG

&gt;Sequence 937

ACACTAAAAATAGAATATAAGGCAGTGAAATCAAATCCTGGCTCACTTGA  
AGAAATAACAGTCTGTGGGCAACTGGTTGTTTCTCAGGTCACCTCAGGGG  
ACAGATGGTCCCTAAGGTGCAAAAGAATGAACTGGTGCTGATATATGACT  
GATAAGTTTCTGTAACGGGCCACTGACCATTTCAATCCCAAGGAACATA  
AATTACCTTTTAGCCTGTGTATTTACACACAAATATGCAACCTGCAAACT  
TCTTCTGAGGACAGATGTCAACTACTTTTTTCATTTTTTTTTTACAGTCA  
AAG

&gt;Sequence 938

GGTACCAAGTATACTTCACCAGATATCTATAGAACATTCCACTCAGCAAC  
AGCAGAATCCAGCAGAATATATATTCTTCTGAAGTGTATGTGGAACATTC  
TCCGGGATAGACCATATGTTAAGTCATAAAACGAGTTTCAATAAATTTAA  
AAGGACTGATATCATACCAAGTATGCTCTCTGACCAGAATGGAATGAAAT  
TAGAAATCAATAACAGAAGAAAATTTGGGAAATTCACAAATATGTAGAAA  
TTAAAAAACACACTCCTTAAACAACCAAGTGGGTCAGAAAAGAAATCACAA  
GGGN

&gt;Sequence 939

CCCTTAGCAGCGGCCGGGCCGACGGGCTCTTCTCCATACTCTTTTAATT  
GGATATGCCAGTGTGTCTCAGTAATTTCCAGTGGCTGTAAAACCTTTGAGA  
AATTTTGTAGCTTTTAGAAACCATACCTGTATTGCCTGATTGCTTATT  
AAGTGATCTCTTAGAGGTTTCCAAAGTTATGAGTTTGAGTTTACAAGTGC  
AGTTTTTTTCCATGAAAATTTCAAGTGGTGACAAATTATAGAATTTATCAT  
TCAATTCAGTCTTAACTAGAAATAATTGCATATAATAAACAGGTTCTTG  
ACTGTTCTTTTT

&gt;Sequence 940

ACTGCCACTTCCATTTTGTAAAGTGAAGCCCAGAGAAGCAAAGAAATGTGC  
CCTAGGTCACATAGCTAGTCGGTGGCAGAGCTGTGATTGGCAGGTTGGTC  
GAATGCCCTCCAAAGCCCTCGACCTTCCCACTATACTTCACGCATCTCTAG  
AGAAGAGACAGAAGTAGCCAGGATGAAGGTCTTCAGGTTTAAGAAGAACT  
ATGAAAAAGCAAAAGATTTTGTTTTCGTGGTTTTTTTACTATAAAGGAA  
AACTTTAAATAATAGCAAGAGTGCTATAGGTAAGATATCAGAA

&gt;Sequence 941

GGTACCTCGTGGTTGAACTTATTTGGGGACAGAATTGAGACGGAAAAATT  
TGATATCAAAGGAAGTATCAAAACCCTTGATGTGGTTAAGAGCATGGATA  
GTGAAACTAACCTCTGATGTATGGTGAGAGAGCAAAAGAGAAAGGATTGC  
AAAGAACTGGAATGTAGAGGATGAACATATTGGTAATAATAATACTGGT  
GGAATTGTTATTACAGGAAAAAATAGCAATTATTCCTGTTTCATATCTCAA  
TCATTGTATGTTGTTTATTTAAAGGGAGACATGGTAGAAGATATCAAATA  
TAAAAAT

&gt;Sequence 942

GGTACATGAAAATGGCTGTTTTTCCCCACATTAGTCAGCTCTGGATTTTG  
CATGTGTGGGGCTTTTTTTTGATAGTTATTTGTTTTTTATTTTAAAAAT  
TTATTTTGCCAAACCAGTAGAGAACAGCTGAGCATCTTCTCATGTATTTA  
TTGGCCATCTGCATTTCTGCTGCTTATTGGCCATGTATTTATTGGCCATT  
TGCCGCTGCTGTGAAATGTCTTAAATTTTTTGCCCATTTTTCTAGTGAT  
AAAACACTGAAGCACATTTTAAAGACTTCTGATGATTTTTATTGTC

&gt;Sequence 943

ACTTCAGGAGATACATTCTGCTAGTTTGGGGTGGTGTGTTCTATAAATGT  
CAATTTAATCCAGTCGGCTTATGATTTTCAGTTCTATATTCTTACTGATT  
AATGTGTATATACTAGTTCTGTTACTAAGGAGGGATGTTAAATTAATCCC  
TAGCTGTAATTTGTGCTATTGTTCTCTTTTCAGCTGTTCTAGCTTCAT  
AAATTTTTGGAGCTGTTAGGTGCATATACGTTTAGGATTATTTTGTCTTC  
TTGGTGAAC TAGACCTTTTATCATTAGGAACT

&gt;Sequence 944

GGTACAAAAATCAACTTTCCTTTTTACTATCTGGAAATAGGAAAATGTTT

267  
Table 2

CATTCACTATGGTGACAAAACCTGTAAATAGGAATATATTTCTGAGGAAA  
GTATAGGTATTTACAAATAGATAAACTATATTTCTTAGATGAGAATACTTA  
ATACCCACTTTACAAAATTAATAATGAATTACAGCTTTTTAAAAATAGAT  
TAAGCTGGGTGTGATGACATGGCACCTATAGTCACAGCTACTCAGAAGGC  
TGAGGCAGGAGAAGCACCTGAGCCAGGAGTTTGAGGCTCTAGTGAGCTA  
TG

&gt;Sequence 945

ACCTGCAAGTCCAAAGAGGACCAGGAGGATCCCCGCCAAAAGAAGGGTAA  
TCGATGGGACACCAAAGTTATCAGTCAAGTAAGGCAGAAATGCTTGAATG  
AATAAATGTATATAGATAGAAAGTAGAGACCTTGATAAAGTCAAACCTCT  
TGCCTTTACAAGTGTGTGTTTCAGCAGCCATGCAAGGGAGATGCCCCATCTG  
GCAGTGGCCAGGGCAAGGTGTCAGAGCCCTAGTGGCAGGGAGATGGCAT  
CCACATATGAGGGAGGGTGACATGGTGCTAACTGGGCATCTACATAGGGC  
AGGG

&gt;Sequence 946

ACTGCATATTTAATGAATTATTTTATAAATTGCTGTTGTGAAGCATTGT  
GAATGACCTGCCTCCTAGCTTTCAATGCTATTGCCAGGCTGACTTTTAT  
TGCAACTGTTTTATGATACAGTTTTGCATTGTATGTGTTTACTTTTTAAA  
GAAGCATTTCTCTGGGAGGTTTTCTTTTTCTGGTTATGAAAATAATATATGC  
TTATGGGGAAAAATTGAAAAATAGAAACCAAGTATCTAGAAGAAAAATCAC  
TCATAATTCCAGCACCTGTTAATACTTTGTCTTTTCTTACAGTTTCTAA  
TA

&gt;Sequence 947

GGTACCAGTAGATGAGAACTACTTATTTAGAGTGGCAGAGCATGCTATAG  
AAACAAAATATGAGTAATTCTAACTGTAGTTATGTTATATTAGCATAGTG  
AGATAGTAACATTAATAGAATTCCTTAGGTGGAATTTCTTTAATGCCTTC  
AGTTTCAATTTTAAAAAAAAAAAAAGTGTATGTAGAAGAGGGAGTGAAG  
GTTTGTAGAGGTAAAGAGGGTGAGATTTGATGGTATTTTTTAGTTAGG  
ATGAGATAGTAGAGGTAGAGGTTATAGGGAATGTAGGTTGTAGTTTTTTA  
TTTN

&gt;Sequence 948

GCGCCTTTCAGCGGCCCGCGGCCAGGTACTGATATTTAATGAATATTTTA  
TAAATTGCTGTTGTGAAGCATTTGTGAATGACCTGCCTCCTAGCTTTCAA  
TGCTATTGCCAGGCTGACTTTTATTGCAACTGTTTTATGATACAGTTT  
GCATTGTATGTGTTTACTTTTTAAAGAAGCATTTCTGGGAGGTTTCTTT  
TTCTGGTTATGAAAATAATATATGCTTATGGGGAAAAATTGAAAAATAGA  
AACAAGTATCTAGAAGAAAAATCACTCATAATTCCAGCACCTGTTAATA  
CTTTGTCTTTTCTTACAGTT

&gt;Sequence 949

ACCAAGAATAAAATTGTGATACGATAGGTGACTTATGAGTAGCACAGAAT  
GTAATAGGCCCATCTCTACCTAGTTCTGGTCACCACACTTCTGTCAAGGT  
AGCTCGGAGAGACGGTGTCTACTTATTCACCACATCATGAGATCACCTCA  
AACTGAGCAGGCAGCCAATGAAAACCGTGAGCTTTCTTTACATTAACTTT  
CTGAAAGTCATTTTTTCTTATTCCACTTTGTGCCTTTTTTTAAAAGCTGC  
AGCTTCATGGAATTTAATCCTGGTATTTAAAACACTT

&gt;Sequence 950

ACTTGGTAGGTTGATCTCTTTTCACTCTCATGGTTTAATTACCATCTATTC  
ACTGATTACTCCCAAACTGTATCTATAGTCCAAGACTGTTTCTAAAAGG  
TCTGCACCCACATATGCAAATAAATACCAGATATCTCTCTTGGTTATATT  
GCACATATNTCAAACCTCAATANGTTCAAACCTGAATTCATCTTCCCCCT  
AAATGTATTTTTTCTTCCCCCTCTTTTGATAAAAGGGATTACCAAAAACC  
CCACCCGCCAGGTTAAAAAACCTGGTTTGAAAAAATTATTGTTTTTTTAC  
CCTTTTTTAAAAGG

&gt;Sequence 951

GGTACTCTTAGGAAAAGAGTAATGGGGTTGAGGATGGTTAATTTAGCCCAT  
CCTAACTTCTGTGAGATTTTTTTCAGAATAATTTGGATGGTTCTCTCACT



268  
Table 2

TTTGTTATTAAGCATTGGGAAGAAGATTCTGCAGCCTACTCAGGTGAGC  
CAATCTCATGGCATTGAACAGAGAAGATATGTTTTACGTCTCTAACCAG  
TGTTTTTCATAGTGTAAAGTCAGGCCTTTCTCCTTTGATCTAAGTGGAACC  
AAGAGGTTAGATACTCCCTTTTCTTTAGTTATATAATGGGCTTCATGTAA  
CTA

&gt;Sequence 952

GGTACACTCTGTAGGTCTACAGGTAAAAAGCTATTACGTTGCAAAACATTA  
TAACGTAATGTAAGGTCTGGATTACATGCCTAAAAATCCAATGATTCTTG  
GAACCATCAAATCTGTTAAGACTGAAAAGAATACCAATGTTTAAATATAT  
CTATAAAATGCAGGTCAAGGGGCTAAGAAAAATTGCAACACTAGAAAACCA  
ACAAACTTAGGTTGTTCTAACATACATACACAAATACAGGAGGGACGTTT  
ATGGGTCACATCTGCGAAACATTTTTTCCAAAAAGCTGAATTTTT

&gt;Sequence 953

GGTACCACCAATAATTATGCCACAATTTTATCCTAAATAAGAGTGATTCT  
CCTGTTCTTTTCTACAGAACATGTTTCTGTCCGCAAAGAGAATAAGAA  
AACATGACCCCTCCATCCAGAACCACAACTAAACTCAGGAGTGATTAGAAT  
CACCTGTGGGCATTTTCCCCCAAACCCCATACTCTGTAGATTCTGATA  
AGCGCTCTTAAAGAAGCTACAGCTCTTCCCATTTCCCTATCTGAAAGCAA  
GGAACCATGCTTTGGTCAGGAAACAGGCATACAACATCAGATGTGATTAA  
TAAA

&gt;Sequence 954

GGTACCAGATGTTGTAAATTTACTATAATTAATAGGAATTAATTAATGA  
ATGCCAAGGGGCAGAGCCACACTTCCTATGATAGTTCCTTGCTATAAGGT  
GCTATTTANNGTTCTCTACATTTACTCCATAGTAAGCTGTTGTTTGAGAA  
AAAAAATGCCAGTTTGGTGCCTAGTAGATACGCAGAGGCTGAGAAAGGAA  
CAGATTACCCATTACCCAATGGTTACAGAATGTATAATGCTTCCCTTTAA  
ACTGGTTGATTGTTTTTTTACA

&gt;Sequence 955

GGTACCTTTAAGCCAGATTTCATGGTATGAAGGCAGCAGCATAGCACCTCC  
ATTGACCCACATGGGGGCTGCCTTGGGCTTCATCAGCCCTTTGGAGTCT  
CAGATCCCTCACCTGTTAAAGGAGAGTAATACTACCCACTTACCTTTTTG  
GGTTGTTGTAAACACACATAAGACAGTATTAGGAGAAGTAAGGTCTGAG  
GGCTGGGCTTTGGACCCAGCGCCCTAGGTAGAGGCCTGTTGAATTGGA  
TGACAGTGAACCTTGCAGCATTTCTAACCTCAGAAGTTCAAGAG

&gt;Sequence 956

GGTACTTCTGCTTTATTTCAGTCTAGGTAAGAAATGTAATGGATGTGTGCA  
GGTGACATAATTTACGGGGATAAGGTAAAAATTAGATGAAGCCCAAGCAA  
ATATTCTTAAAAAGAAAACTTAGGATTTTTTTTTTACAAAAGTTAACTTA  
AAATGCATTATCTAGAATAATGTTATAAATCAACGTATAGAGACGTTAGT  
GAATAGTTCCCTTCATTAGGATGTTGAAGGAATATGGTTTCAATATTCAA  
CAAATGTCGTGATGCCTATAAATTTTTCTACAAACAAGAGTATGTT

&gt;Sequence 957

CCCTTAGCGGCCGCCCCGGGCAGGTACTTCAGGAGATACATTCTGCTAGTT  
TGGGGTGGTGTGTTCTATAAATGTCAATTTAATCCAGTCGGCTTATGATT  
TTCAGTTCTATATTTCTTACTGATTAATGTGTATATACTAGTTCTGTTACT  
AAGGAGGGATGTTAAATTAATCCCTAGCTGTAATTGTGCATTAGTTTGT  
TCTTTTCAGCTGTTCTAGCTCCATAAATTTTTGGAGCTGTTAGGTGCATA  
TACGTTTAGGATTATTTGTCTTCTTGGTGAACCTAGACCTTTTATCATT  
GGAAACTGTCCATATAACCACT

&gt;Sequence 958

CCCTTTGAGCGGCCGCCCCGGGCAGGTACTCCATAATATAATCTTTTAAAT  
GGGCAACTTCTAAATATTGATACAACCATTAAATAAATGCTTATAGGGT  
AAAAGAAAAATTTTGAAGCACTGAATTCAGTAACCTGGGTCATGGTCCAA  
TTTTGCTCACTACTTCATATCTTTTATGTAGATTATTCCTATAAACATGT  
TCCCTAAATTCACATCAGTTTGTAAGTCAATGGATTAAATTATTCAA  
TGTAGCTATTTAACGGTCAGTAACAATGCCTAGAAACCTATT

269  
Table 2

## &gt;Sequence 959

GGTACTTTTTTTTTTTTTTTTTTTTTTTAAGACAGTCTTGCTAT  
TTTAAGTCCAGGCTGGACTCAAACCTCTGAAGATTGCTCAAGCAATCTTC  
CCACCTCAGCCTCCCAAGTAGCTGGGATTACAGGTGTGATGTCCAGCTTA  
GGTTCCAGCTCTTAAAAGAGTTGTCAGTGTGGTGGGCGAGGTGGGTACA  
TACACATATAATTATAAGGTAAAAAATCACAACCTACTACAAGAAAGGTGC  
AAACATTTATGAGAAAACCAAAGAAGGGAN

## &gt;Sequence 960

GGTACTCCAGCCTGGGTGACAGAGTGAGAATATGTCTCAAAAAAATTAT  
CAGCAGAAGATAATATAGACCCCAAGGCTAAAGGGAACCATTCATCTC  
TAGGCCTGAAAGCCTAGGAGAGGGTGCTGTATGGAGAGGACTGCTTCTGA  
CAGAGGGATATAGCCAACCTTGGTGGCCTAATAGAGAGGAAAGTAGGGAA  
TAGCTTCACCTTCCTTCTCTAATCTTCTGCTAGTATCCCTATTAATTTAG  
CCTAATTAGAAGCTGGAAGGTAGGAGAGCCTCCATGGGCAAAAAGCTGTG  
TAGAGAACATGGATCCTGAGGGGGTAAATGGCAGATAATCTAGCACAGAT  
TGG

## &gt;Sequence 961

GGTACTCCAGCCTGGGTGACAGAGTGAGAATATGTCTCAAAAAAATTAT  
CAGCAGAAGATAATATAGACCCCAAGGCTAAAGGGAACCATTCATCTC  
TAGGCCTGAAAGCCTAGGAGAGGGTGCTGTATGGAGAGGACTGCTTCTGA  
CAGAGGGATATAGCCAACCTTGGTGGCCTAATAGAGAGGAAAGTAGGGAA  
TAGCTTCACCTTCCTTCTCTAATCTTCTGCTAGTATCCCTATTAATTTAG  
CCTAATTAGAAGCTGGAAGGTAGGAGAGCCTCCATGGGCAAAAAGCTGTG  
TAGAGAACATGGATCCTGAGGGGGTAAATGGCAGATAATCTAGCACACA

## &gt;Sequence 962

GGTACTTGAGAATATGATTGTAAATTTGATCAGCAGCTACAACATTTCAA  
TGATGCATATTTTTTTTTCAGATGCATTCCTTTGATTGAATTTAAAGTCA  
AGCTTGTGCTTCTGGATGGTTGCTTTGTCAGTGAACACTTGGATTGGAA  
AATACAGCACCTGGGTTGGTTTTGAGAGAAAATGGTTTCAACTTTATAAT  
TACAGTTTTAACCACCACAACAACAAAATTAGGATGGTAGTGAAATGGAA  
CTAAATCAAATGCAAGGTTTTAGTTTAATAGAACAATGTATCCTTTAAT  
AATCTTTAAAGAAGAACAACCTTAATAACCAATAACAAAATTGAAATAGGT  
CAACTT

## &gt;Sequence 963

GGTACTTGAGAATATGATTGTAAATTTGATCAGCAGCTACAACATTTCAA  
TGATGCATATTTTTTTTTCAGATGCATTCCTTTGATTGAATTTAAAGTCA  
AGCTTGTGCTTCTGGATGGTTGCTTTGTCAGTGAACACTTGGATTGGAA  
AATACAGCACCTGGGTTGGTTTTGAGAGAAAATGGTTTCAACTTTATAAT  
TACAGTTTTAACCACCACAACAACAAAATTAGGATGGTAGTGAAATGGAA  
CTAAATCAAATGCAAGGTTTTAGTTTAATAGAACAATGTATCCTTTAAT  
AATCTTTAAAGAAGAACAACCTAAATAACCAATAACAAAATTGAAATAG

## &gt;Sequence 964

ACACTGCATAAAGCCAGAGTTAAAACCTTCACTGCCAGCCTCTGAACAGAA  
GGCTGTTCTATCCACACTATCACAAGACCTGGTGGAGTTGAGGCAACTGC  
TGAATTACCATACAGGGAAGAATGAATTCAAGAAAATTCCTATGCAAGAT  
AGGCTCTTAAAAAATAAATTTACACAAGAAAATCAGCACTGTAAAGGTAA  
TTGATAAGCCCAATAGAAGGGAAACCTATACAAAGAAATAGAAATAACTA  
AGCAATCTGAAATGGACTTTAAATAATGATGT

## &gt;Sequence 965

ACACTGCATAAAGCCAGAGTTAAAACCTTCACTGCCAGCCTCTGAACAGAA  
GGCTGTTCTATCCACACTATCACAACCTGGTGGAGTTGAGGCAACTGCT  
GAATTACCATACAGGGAAGAATGAATTCAAGAAAATTCCTATGCAAGATA  
GGCTCTTAAAAAATAAATTTACACAAGAAAATCAGCACTGTAAAGGTAA  
TGATAAGCCCAATAGAAGGGAAACCTATACAAAGAAATAGAAATAACTAA  
GCAATCTGAAATGGACTTTAAATAATGATGTTTACAATTCTCTAAGAGGA  
AAAGGAGCATTAGCATCAGTGAAACAAAAGTAGGGCTATAGAAAAACAA

270  
Table 2

TACTTATGAAAAACCAATTGGAAATTTTATAGATGGAAAAGCGTGAAATA  
AAAAATTCAACACATGGTCTAAAGAATAAACTGCACACAGCTGAAAGGAA  
AATTAGTTAATTTTACGAAGAAACAATAAATCTCACAGAATGTNAAAAGAG  
ATAAGATATTTAAAAATAAATCAGAGTAAAGAGATATTAACATATACAT  
TTGAGTATATAAAATCCATATGGTGATATGGATACATATATATACCAGAA  
GGAAGGACAGAAGAGATACAATATTTGGACAGAACATGGCTAATTTTCA  
GAATTATTAAGAACTTGAGCCCTTGAAACAGGTCCAGGAGTACCTTGGC  
CCGGAACACGCTTAGGGGCGATTCCAGCACACGGCGGGCCGTA

&gt;Sequence 966

ACGCGGGTCAAAAGGATGAAAATGTTTTCTGTCAGAATGAAATTCAGAA  
AACTTAAAGGAAATAAAAACTATTTAGCACCCAGTGAGGTAAAAATCGCA  
ATGTCTGGTGTCCAGTCAGTTACCAGGCATGGAAAGAGACAGAAAAACAT  
GAGCCATCATGAGGAGAACAATTAGCAGAAACCAAAACCAGAACTGACATA  
CATACCAGAAATTGGCACACAAAAGGATATTAACAATAAACAACCTGCGTT  
CCATATGTTCAAAAAGTTAGAAACATGAAAGAT

&gt;Sequence 967

ACGCGGGTCAAAAGGATGAAAATGTTTTCTGTCAGAATGAAATTCAGAA  
AACTTAAAGGAAATAAAAACTATTTAGCACCCAGTGAGGTAAAAATCGCA  
ATGTCTGGTGTCCAGTCAGTTACCAGGCATGGAAAGAGACAGAAAAACAT  
GAGCCATCATGAGGAGAACAATTAGCAGAAACCAAAACCAGAACTGACATA  
CATACCAGAAATTGGCACACAAAAGGATATTAACAATAAACAACCTGCGTT  
CCATATGTTCAAAAAGTTAGAAACATGAAAGATACAAAAATAAAATCAAA  
CTTCTAAAGATGAGAACTGTAGTGTGTTGAGGTGAAAAATATGCTAAATG  
GCATTA

&gt;Sequence 968

ACGCGGGCGGTCTGTGCCCCATCACCATTCTAAAGCACCCCTACCCTCAT  
GGCAGTGTCCCAAAGGAAGGGGTTTCCATGGTAACCTCAATGGATACAGT  
CAGCTGACGTCTGGCACCGCCTGTGCTGGTGTGCGCTAGCCTACTCACTC  
CCTCGGCCCTCCCTCAATCCTTTCAACTATATTTATTAGTTCTCTTAAT  
GGAAAGTATATAATCCCTTAATGTACAGCCTTGAGTGGCACTCAGCTTTA  
TTAATTTATTTAGGTAATAAATTTACCTTCCTAATTAATTCTCAGTAGTC  
CTGGGAGCTGTATTATTTTAAACATCTTGCACAATGTCT

&gt;Sequence 969

ACGCGGGCGGTCTGTGCCCCATCACCATTCTAAAGCACCCCTACCCTCAT  
GGCAGTGTCCCAAAGGAAGGGGTTTCCATGGTAACCTCAATGGATACAGT  
CAGCTGACGTCTGGCACCGCCTGTGCTGGTGTGCGCTAGCCTACTCACTC  
CCTCGGCCCTCCCTCAATCCTTTCAACTATATTTATTAGTTCTCTTAAT  
GGAAAGTATATAATCCCTTAATGTACAGCCTTGAGTGGCACTCAACTTTA  
TTAATTTATTTAGGTAATAAATTTACCTTCCTAATTAATTCTCAGTAGTC  
CTGGGAGCTGTATTATTTTAAACATCTTGCACAATGTTTATAGTTCTGCG  
TGTT

&gt;Sequence 970

GGTACCAAGATTATGATAGCCTCTTAAACAAAATTGGAGGTTATAACCTT  
TTTCTATTCTCTGCAACAGTGGATATAGGATTGGAGTTATTTTTTTCTTA  
AGTTTTTGGGTGAAAAGTAGCCAGTGAAGTCATTGTGGGTTTGGATTTT  
TCTTTGTAGGAATGGTTCCCTTAATTTACTAATATAGCTTTTTTCCAAAATA  
TGTTAATGAGTAATTAATCCAGGGGTTTTTCTATTATCCTTCCCTTGTTG  
ACAAATTTTTTGTCTGGTCTTTTGTACTTATAAAAGATATTGATTCCAT  
GCCTAATAAAGTGTCTAAATTAATTTTATTTGGGATATCTAATTCCTTA  
TTTTTCCAAATATACGAATTCCTATGTATATATTTATTTTTTACCAAAGC  
ACCAAGTGAATACTTTTAAATGGTTCTTTAAAG

&gt;Sequence 971

GGTACCAAGATTATGATAGCCTCTTAAACAAAATTGGAGGTTATAACCTT  
TTTCTATTCTCTGCAACAGTGGATATAGGATTGGAGTTATTTTTTTCTTA  
AGTTTTTGGTAGAAAGTAGCCAGTGAAGTCATGTGGGTTTGGATTTTCTT  
TGTAGGAAGGTTCCCTAATTACTAATTAGCTTTTCAAAATAGTTATGAGAA

271  
Table 2

TATTCAGGTTTTCTATTTCTTCCTGTGTCAATTTTGTGTCTTTTTCTAT  
AAATTTGTTTCATCTATAATTTTAATATTTTGGTATAATTTTTTCAAAA  
TAATCTTGATTTATTTACAAGACAGGATCTTAATGTTAATGACAGGAT  
CTAT

>Sequence 972

GGTACTCCAGCCTGGGGGACAGATTGAGACCCTGGCTCAAAAAATTTTT  
TGATTATGAGNNGANGAAGGAAAAGAAAAGAAAAGAAAAACAAGAAAT  
TAGCTCATGAATAGCCAGCCTTATATTATAATTATGTGACACTTTGGATA  
TTTCAAAGCACATTCACAAAGGGTATGTCACTTAAATACCTCAAAATTTT  
CCTGTTATACATGCAGATCATTCCCCATTAGCCCTGGTATGGACTGAAC  
TGTGT

>Sequence 973

GGTACTCCAGCCTGGGTGACAGAGTGAGACCCTGTCTCAAAAAAAAAAAAA  
AAGAAAAAGAAAAAGAAAAAGAAAAAGAAAAAGAAAAACAAGAAA  
TTAGCTCATGATAGCAGCTTATATTATAATTATGTGACACTTTGGATATT  
TCAAAGCACATTCACAAAGTGTATGTCACTTAAATACCTCAAAATTTCCC  
TGTTATACATGCAGATCATTCCCCATTAGCCCTGGTATGGACTGAACGT  
TGT

>Sequence 974

ACAAAGCTAGAAGCAGCCTGGTCCAGATGGCTATACAAACCCTAAACTGT  
CTACACCCAGACTTTATTTCTTCTACAACCAAATTCCTCAACACACAATT  
CTGGAACAGTAGCCAGTGAAAAGGGGAGTTTAAAGGGTGGGGGTGGAGGG  
AAGAAGGGATTTAATATTTAATGGTTTATATTAGCTGTGTGATGGATTTA  
TGAATTTTGTTCGTATGTAATCAATGTGTGTGAATATTGTATCTATATTT  
AATCTTATTGTATGTATATAATGTAATGTTCCGTATTCGCTATTTTGATA  
TTAATAAATGATATAAATTAATGGATAAATTCAAACATTGATCCATAGCT  
TCTGTCTATACAGTAACAGTATTTTCTATATAGTTATATCTCTAGTCATG  
CTTTTTTCTTCTTATGAATCTTTAATCGC

>Sequence 975

GGTACGCGGGCTACCAAACCTGCATTAATAAATTTTCGGTGGGGGCGACACA  
ATGATCTTATCTCTAACCTCCGAGCAGTACCATGCTATATTGGTCACTGT  
AGCTCTGTACATAGTTTGAAGTTGGGTAATGTGATTCCTCTAGCTTTGT  
TAGCTCTGTTGTTTTCACTTAGTATTACTTTAACTATTAGGGCTTCTTTT  
TTGGTTCCATATAAATTGTAAATAAAATTTTCCAGTTCTGTGATAAAA  
TCTCAATCGGTAGTTTGATATGGAATAACCATTGAAATCTGTTACCTTGC  
CCCGTGGCGGTCCGCTTCAAAGGGCCGAATTTCCAGCTATCACCTGGTC  
GGTCCGTTTACTATATTGGATTTCCTA

>Sequence 976

ACCTCTCATTTGTCACTTTTCAACACTTCCTGGCAAGCAGGCATCATAAC  
TGGTCCTGCTGGGTGATCCAGACCACACTCTGCAACTCTTTCTCTGAGC  
CAAGCTCCCCTACTGTCTTTTCATTTATGTCAAGGCAGGGGAAGAACCTC  
AAGGGCTCTTGCATCCAGTCTCACTTCCCAAAGAGGCACGAGGCCCTC  
CAGGATGTGGGGACAGGAACTTTGGGGCAAGCCGGGGCTGTCCAGAAGAT  
CACCAGGAGGGCCTAAATTGTAGAAAGGAGAGTCCTTTATTGGGTGAAAT  
GTTTGGCAACTGGGAAAAGATTGCTCCCATTTGTGGAAGCAC

>Sequence 977

GGTACTTTAAAAAGTAAACAAATTTAACTGAAGCATGGCTATTAGTTAGT  
GATTCTTTGTAGATTTTCTGGAAAGTCTTGTTGTTTGTATTAAACATTA  
ACTCTGCTGTATGCTGTAAATACACTGCTAAGATCAATATTGAAAAACGA  
ACAATAATACCAATTCATATGGATCTTCAAATTAGTCTTATAAAATTTTA  
TGATATGGTATTATCCAGCCAACCTGACTTTGAGACTGACAAAAATTTCTA  
ACTTTAACCAGGTGATTCTTGCAATCTTTGGTTTAAACCTCAAGTTTAA  
AAATATCTTTATATTTACATTTAATTGTCATTAATCA

>Sequence 978

ACGACTTCACAACACCAACCACAGGTCTCAAGGTCAAAAAATGAGCTAGG  
AGTAAAGTATCTGCTCCAGAATCTACCCCATCCCAGAAAGAGCAACCCA

272  
Table 2

ACTGTGTCCTGAGTGGCTCTTAGAGTTTAAGACTCTGAATGAATGCCTAA  
ATTTAGAAAAGGGTGTGGACCAAGGGATTTTGGTTAATGTTCTCTAAAGC  
AGGCTGACTGCCAGGATTTCAAGTCAGTGATAAAATTTTAATTTTATTA  
TTTTTTTCCCCCGGTACCTCGGTCCGCAACCACCGCTAAGGGGCGAAA  
TTCCAGCAACACTGGCGGGCCCGTTACTAGG

&gt;Sequence 979

ACCTGGCAGCAGAGTAGGCACTAATATGTGTTGAATGAGTAGGTGAAATA  
AACAAAAACCTAATGGCGATGGAATTTTATGGAATAAGTAACTTCATT  
ATTGCTGAAAAATACCGCAGATAAAATAGAGGGAGGCAGTGTAATAGAGTGG  
AAAGAGCAGTAGACCAGGAGTCAGACAGTCGAGGATCTCATTCTAAATTT  
GAAGGTGAATAGCCATGTGGCTTTAGACAGGACTCTGAACCACCTTGTTT  
TCTTATCTGTAAAAGGGGGAAGTCATAATAGCTACTCCTGCCTAACTCAT  
AGGTTGTTGAGAAAATGAAGTGATTCA

&gt;Sequence 980

ACATTACCTTTTATGTATGCTGGAATAAGAACTTGTGTCTACATGCATGT  
AGAAACAATGGAAGGATAGGCAAGAAAAATGAAAAAAAATGATAACCTAT  
GGGGAGTGATGGCCACTAGATGACTGGGGACAGGGGCTGGTGAGTGAGCG  
CAATTATCTATTTAAACAATCAGAAATGCTCCCTAAATTACAAGTTTCTA  
GTTAAATGCAGTAAGAAATTTCCCAAGCTCTGCAAAAATAAGTTCTGTC  
AATCAAATCTTACATGATGCATTAAGTACTGAGCTATTTTAAAAATACTACCAT  
GAATTCATCTTTAAAGTGTGACTTTGTAAAGCAGATAATCCTCCTGTT

&gt;Sequence 981

GGTACAGTATTGTTGACTGGCTAACAGAGGACCAATTAATAAGCCAAAGA  
AATGGCTCTTTAACAATGAACATTTCTGCCATCAACTGACAGATCCCAGG  
AATAAATGTTTTCCAGTGAGGAGACTTCTCTGGTTTTTCAGAACACCTCTG  
GCTGCCCCCTGCCACCCCATAGAAGGGCTATCCCTCCAGGTCAGGTTAGC  
ATCATCACCTAGAGCCAACAAGTCAAGGAGGTGATGGTTTGCCTTTGACA  
TCTTACCCAGACCCAGACTCCACTGAGAAGACTCTCCCTTTTTTATCACT  
GCCCTACCTAGTTAGTTGGTCCTGCCCTGGGGCCAGAGTTTCACTAGTAG  
TATAC

&gt;Sequence 982

GGTACTTAGATCAGATGGATTGAAACATGACAGCCCCATTTTCATCTGGCC  
GGTTAAGGTCTCTCATGGAATGAAAAACACTTTCGGGCACTCTCCTATGAG  
AGAGAGAATGGGTTTCTTTAATTGCCAGATTGTCTGAACACAGCCTCAGC  
TACTTCTAGGAATAAGACGAAGCAGTGAGGAAGTTGCCAGTTGAGTGATT  
CTTGGGGAAAAAAATTAGCATTCAAGTGCCAGCTCTCTAAAGTGTGGATT  
TGGATTCTGGTAGAAGCCAGTAAAGAAACGTTTTCTCTGGAGTGGAAGCT  
AGTAAGATTTATTC

&gt;Sequence 983

GGTACAGTGACATTTCAAGACATGGCCCAATGCACAAGCAACTTCCCAAA  
GCTGTAATTCACGAGATTCCTCAGGGTCCTCTAAGCTCCTTGAGGGCAGA  
AACTTATCTTTGTATTACAGCTAGCCTTCAATCAGTAGGTGTTGAGCTGA  
TTTTCTTTTTCTTTTTTAACTCAGAAGTTAAGTTCCAGCTTCAGTGGCT  
ATGCCCAGATGGTCTGATTCTGAAGGACAAGAGAATTCAGTGGCATAAGC  
CCTGTGCTTGGCATGTAGTAAGTTCTCAGTAAACTTTAGCTGGCGGGATC  
ACTGAC

&gt;Sequence 984

ACTTTTAGTAAAGATGGGGTTTTGCCATGTTGGCTAGGCTGGTCTCGAAC  
TCCTGACCTCAGGTGATCCACCCACTTCGGCCTCCCAAAGTGCTGAAATT  
ACAGGTGTGAGCCACCGCGCTCGGCCGAGGACACTATTTTTTTGCTTTGG  
AAGAAATGAATCCTAGTTTTGGTTCAGAAACTGTCAACAGCATTGTGCCT  
CTTCTATGACTACTAAATTTCAAGCAAAGAGAGCTGAGTTGGGGGTAAAA  
GCAGGGCTATTTCCCGCCTTCAGACAATGCTGTCCCTTATCAGGGCAGAC  
TGCTGTCTGGTTTCTGTCTCCAGCTCGGGCATG

&gt;Sequence 985

GGTACTTACTTAATTTTTTTTTTTTTTTTTTTAGTAGAGATGAGGTTTCACC

273  
Table 2

ATGTTGGCCAGGCTGGTCTCGAACTCCTGACCTCAGGTGATCCACCTGCC  
TCAGCCTCCCAAAGTGTTGGGATTACAGGAGTGAGCCACCGCACCCAGCC  
TGTGTGTGTTTTTACTTAAAAATTTTAAATTTAAATTTAAATGTTTA  
ATTGACAAATAATTTTATATATGGGGTATAATGTGATGTTTTGATGTATA  
CATTGTTGTATACGTTGTAATTGTATACATTGTGTTGTATACATGGATGT  
ATACATTGAAATTATTGTATCCAGAAAATTAACATATCCATCACCTCAC

&gt;Sequence 986

GGTACATGGAATACATAATTTTGAAATGGAGTCAGGGCTTTCCTAATGAT  
CCATTTTGTAATTACCTAACAGCTGAGGAAAGGTCCAGAGAAGGAAGAA  
CTCAAGGTTAGTAGACAAACTTGATATTGAGTTGCACTGGCTGCCTTCTC  
TTTTTGGTCCCCTAAAGAGTATTTATCATCTTAGATTACAGCTTAAGTTGT  
GGACAAATATCAAGGGGAAAAGTATTTACAGTTAACGTTGGAATCACACG  
GTTTTCGNGGGTGTGCTCTTACCCTTCAACTTTGGTGGTTCTAAAGA  
GGGACGATTATTAGTTGCTTTCCTAAGGAGGGGAAGTTCATGATGGAGC  
AACT

&gt;Sequence 987

GGTACCTGGCCTAGAAAAATTTTTTTTTTTTGAATGGAGTCTCACTGTG  
TCGCCCAGGCTGGAGTGCAATTGGCGCAAATCTTCGTCTCAAAAAAAAAA  
AAAAACAAACAAAAATAAACTTTACTCAAATATCACTTTCTGTAAATGT  
TCTTAATTCCTTCAATCATCCCCCTCTTCTAACTCTCACAGCACTTTCTT  
CCACTACGGGCACGCATCACACGCCAACTACTCACCAGTTCACGTTTTCCG  
CCCTCTCTCCCACTTGCCCAATCACAGAGTTCCTAAAGAACCAGGACTAT  
GTTCTACTAGTCTTTGTAGCCACTGCACTCGGAATGGTGTCTAGTACCTG  
CCCGGGCGGGCG

&gt;Sequence 988

ACTCCTGTTTCTACAAATTTATCTTATAATAATTTGTCAAATGTTGAGTG  
CACAGATTTATTCATTGCAGCATTTGTTTTTCATATCAAAAGATGGGAAA  
CATTGTGCAAACAATGCCCATCAGTAGTGGATTGATTAAATAAATTAGGT  
ATATCCAATAATTGAATATTATGCAAGTATATAAAAAATAAGAATCATGA  
ATATGGAAAGATTTGCAAAATATATTGCTAAGATTAAAAAAAAGGAAGGG  
GCAGAAAGAAAATAAGTTGGGTAAAAAAAACCCAGAAATGTTTACTAATA  
ATTATATTTAAAACTCATAGGATAAACAAGAAGGTAATGAAATAATTAA  
T

&gt;Sequence 989

CCCTTATCTTGGTCGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTT  
TTTGGTAGAGACAGGGTCTCACACTTTGTTGCCAGGGCTGGTCTCGAATT  
CCCGGACTCAAGCAATCCTCCGTGTTAGCCTCCCAAATTGCTAGGGTT  
ATAGGTGTGAGCCACCCTGCCAGCCTATGTTTATTTAGATGTTCAAAA  
CAACAAACAAAAATAACACACTAGAAAAAATGATCAGAGAATACGTGTTA  
AATGAGAAATAGTTACAGGGCTTTTATAAATTTGTGACCTTCACCCCTCCC  
CTTAGTCCTTTTTCTCCATAAACTCTAATTACAAATTTTCTTCCACAGC  
AAAAAAGAGGAATACATTCTTCGAA

&gt;Sequence 990

GGTACCTGTGATTGTCTGTGTTGAGACTATTACAGAGCTCCAAAAATTAA  
AATAAAAAATAAATTTTACAGAAATACATATTGCAATTGGAATATTTAA  
GAAAGTTGAGTTTGATGCCACAAGATTATTGGAGTAATAGGAAGCTGTG  
CACAGTGGCTCACACCTGTAATCCTAGCACTTTGGGAGGTTGAGGCAGTG  
AGGCATTAGGATTGTTGGAGCCTTGGAGTTTGTGAGACCTGCCTGGGCAA  
CACAGGGAGAATCCTGTCTTCTTCAATTAAGTAAATTTATAAATGGAATT  
TAGCTGGTTGGTGGCTTGTGACAATTTTTTGGTAATGCTTTGGTGTA  
CCTTGTA

&gt;Sequence 991

CCCTTAGCGTGGTCGCGGCCGCGGTACCCTAAAACTTAAAGTATAATAAT  
AATAAAATTAACAAAAACCAAAAAACAAAGATTAAACAGAAAAACAAACA  
AAAAAATCCAGCATATACATTGAGTCATTTGCAGGTTTGGGAGGGGGG  
GAAATGCTTTTTTGTATTAGGAGAAAGGGAAGTTTTCATTTTAAATGTCT

Table 2

ATATTACTTAAAGTTTGCAATAAATATTTATTACTTTCAACAGTGAAAAA  
AATTACAAGAGAGAATATGAAATAGCACAGTAATACAGACTATAGTAATG  
CTAGAGAACATAATGAAAAACAAAGAAAAATATGGGGGGGAAAAATAGCTTA  
AATCCTAATCCAAA

>Sequence 992

TTTATACGTATATATGTGATTGATGAATTATGGTATTAGCTGTGTTAGTA  
GTTTATGTGTAGTTATTAATGAAATTGAGGTTGAGATTGTTGAGGAATAT  
AGAGTTTATTTGAGGTTAGAAGTTATCATTTAGGATCTACGCGTAAGACG  
TGTTTTGCGACCCG

>Sequence 993

CCCTTTGAGCGGCCCGCCCGGGCAGGTACCCCATCAGAGTGTCTCTTGG  
CTTTCCTGTATGTAAACCTTACTAATACTTTTCAGTCACCAACCTTCTGT  
GTCATTTCTTTTAAAGCAAAAAGGAGAAGTAAAGTGGAAATTTGGGTTTCA  
AGAGCCATGCTTTTGGCTTTTTCACAAAGAGAGTTGCTCTTAATAAGGCG  
CCTGGGTGTAGTTTTCACAAACACCTTTATTTTCTACTTGACTGTCCTGGA  
TATGTTGGCCTTTGAAAGTTGGTTTAATTTTAGTAGAGGAAGAGGTGTTG  
GACTTTGGAGTAGTGTAATGTTTACCCTTTTGGCCCGTTGGAACACCT  
GCCTTATGGGGCCGAATATTTCCAGACCACAACCTGGGTGCGGACTCGT  
TTAACTTAGTTGTGATTCCCTGTGGCATTGGGGTTACCCCAAAGCTTTT  
GGTCCGT

>Sequence 994

GGTACCAAGTTGTTCTCAAACCTTTCATGTTTGTGTATACAAATCAGCTGA  
GGCCTTCACTAAACTACAGATTCCATGGCCTGGCCCTCAGAGATTTTGAC  
TCAACAGGTCTGAGTTGGGACTAGAAATATGCATTGCTAATAGGCACCT  
GACAATCCGATGTAGGTGGTCTTAGAACATATTTGAGAAATATATTC  
TGTAAGTCTGGCAGATAAAGAATTCTTAACAAGGAGGTCTGCCCCGGCG  
CCGCTCGAAAG

>Sequence 995

GGTACCATCATCTGTTTCCCTCTGGTTATAAATCTTTAATGAAAACGGAT  
TTAAAAAGTCACATTATGATGCTCGAAGCTCTGACCTCTCATCACAATGA  
GAAGCAAAAGACATGCCATAAAGATGATATTTCCACAGGAACGATATTA  
GAATTATGTGATGCAATCTCATCCAAGGTCATGGTATCAAACCAGACACA  
GCTAANAATGTATCATAATAGCAAGGATACAGTAGCAAGGATGGGCCTCA  
ATAAACATTTAAAGTGGAATAATTTCTTCTCTAACTCATATCAAGTACCTG  
CCCGGGCGGCC

>Sequence 996

ACCAAAATAGATAAGGATCCTGTTTGTGAAATGAACCCAGTTGCGCCT  
TAGGCATTGTGAGTTGGCTCATTTCAGCCAGTTGTAATATGGTTTTTTA  
TTCTCTAAATTCGGGACCTGATGCTAAGGAATGTGAATATACAGTTAGG  
TTCCTGCGAACCTGTGTTGGTTCAAAAAGGCTGGTGGAGGGAAATTTAT  
GACACTAAATGCTTATATTAGAAAAGAGGAAAATTGGCCGAGCACGGTGG  
CTCATGCCTGTAATCCAGCATTTTGGGAGGCCGAGCCAGGTGGATC

>Sequence 997

GGTACTTGGCAACAATAGCTACAAAGGATAGGATACTCAATTGCAAGTAG  
ACTTTTAAAAATAAATTCACCTTACTTCTATTCCCAACTCAATCTAGAATAT  
TATTGGTGATAGTGAAAAGACCAGACAGATGACATTACTTCCAAATTTTA  
CCAATCTAATTGTTTTTACTCACACCTGTAGATGTCACTTTAAAAATGTG  
AATATTAAATTTCTTCAAAACTACTCCAATTTAAGTAATGAGTTAGAGCTT  
TGGCAACCATTAAAGCTCTCTGTTCCCAACTCTAACAATATGTGGTAATG  
TCTTCCCTGACTTCATTTTATGTTTACACAAAATCAAAGGTATATTTAA  
GGTTTTCTACATTTTTTGGATATTTACCTCCTTGTAATTTAGTTTTATA  
TGCTGTATTACAAAACATATTATATTCAAGAATTTTAACTTAGAGT  
AGAAGTGAAATTACAGGTTGAAGATTATTAATTAGCCATTCAGAAACCT  
TCCAAAGTGTCATAAAAGGATATTTTTATCTGAATGGTCTATATACTA  
TAGAGACAAATATTTAGGAAACAGGCCCATGGAGTTTGGGCACATTTTAA  
AATTCAAAAAGGGGAAGTCAAAAAGAACTGCTGAGTAACCCACAGAATG

## Tabl 2

TCTAGGGTGATTTCCCTGAATGCTGCAAATATTCAACATCTATTACATGG  
GTTTAACAAATTTTTCGAGCTTCTTTTAACTCGAAAAT

>Sequence 998

GGTACGTGTTTTACTTGGTGCTGTAGGTAATGCTAATTCATGATAAAATT  
TGAGAACCACTCTAGGGTAGTATGTTTCCAACAGTTTAGGTCATGAGCAA  
CCTTGAGAAATACACTTTTAATCATGACTCAGCACACACACTCACATGCA  
CGTGTGACTTAGACGTTCCATGAAACAATGCTTATCTTACAGTGTGTTTT  
CTGCTCTGGTATTTTTACTTATATTCTATTAAATAGATATGTGTGTATAA  
ACTTATTGATATAAAAAATGTGGTCATGATCCACTAAAGTGATTTTACAAG  
CCACTAATGGG

>Sequence 999

GGTACTTTTTTTTTTTTTTTTTTTTTTCTTTTTTTTTTTTTTTTTTTTT  
TTTTTTTTTTTTTTTTTCCACTTGGGTTCTCCTTTTTTATTATTCGGCAA  
AATGATAAAAACCTAAAGCCTGTTTATATAGGTTTTTCATGGCTAGAGTT  
GTATAAACTGCATTTTGTGAGTTTGAATAAGCCCATTTGAATGAGTCAA  
ATTTTTTAAAAGCCTCGAGATCCAACAAAGCTGGAAAAAAGTAGGGGTGG  
GGGTAAATGGTTCAATTGAGATGTTGGCCTTCAGTACCATGAGAGGGAA  
AGCAGAACAAATGGGN

>Sequence 1000

ACTAACTGAATATTTATTTAAAAAAGCATTAAATTTATCTATCTATATAAC  
TAAATCTATCAAATATTCTTTAAACACGAACCAAAGTTAATCTGAAACT  
CTTCCTGTGAAAAAAGTCATGTATTATATGCCTTCAACACAGAATTTGTC  
ATTATTTCTGTGGCATTATACTATGCCCTTTGTCATATGCTTTTTTCC  
CATAGAGCATTTTTTCCCATAGAAGCTTTGTATTCCTCCACTTCTACCACC  
TTTCTTTGAAGAACTCTTATTTACCATTTCTTGGACTAAATTAGGAAA

>Sequence 1001

GGTACCCAGAATATGGTATATCTCTTCATTTATTTAGCTCTTTTTAAATT  
TGTTTTGGTAATATCTGTGATTTTTTTTTTTTTTTTTTGGTATGGAGGTC  
TTACATCTTTGTAAAATTTATTCCTAATACTTTGGATTTTGACATTATC  
ATAAAAGAAAATTATTTCACTGACTTTTCCAGTTTGCTGCTGGCCTAAAC  
ATATCAGTAATTTTTATATTTAATCTTGTATCCTATGACTTTGCTAAA  
TTCATATATTAATAGTTGCTCCATAGATTCTTAAGATGGCAGACACAG  
CTGTTTG

>Sequence 1002

ACTACTGGCATTAAATTAGATTGTGATCATAAGTCAAAATGTCATTGGTT  
ATAAAGTGGTCATCAGACCATGCAGACTATTACTAATATTGGTTATGTTT  
TAGTTTATTGCAGTGAATAACAAAATTTAAAAGTTATTGTAGAGAATTA  
TCATACCCCCCAAAAAGTGTCAATTGGTCCCTCCAGGACTCTGTAGTCCCA  
TCCAAGAAAGACTGTGATAATTGTCAAGGGGTTAGTATGGTCTGAGCATG  
GTTGATGGTGCTCTGTCAATTCTGGTATTAAACAACCTGCCAAATGTCTTG  
ATTACATGTCCTAAAAAAGTGAGGGGAAGAGTGTAGGACAAATGCAAAAT  
AAAAATAACACATTTAGCTATACTTTTAGTATTTTTTATTATTGAGATTCA  
ATATTTAAGTGACCGATTCAAGAATCTTTTATATAAAAAATGAATATATG  
CATAAGTAACTGTGATAAGAACTGTGGATGGATAAGAACACTTTTTTGAT  
GTA

>Sequence 1003

CCCTTAGCGTGGTCTCGGCCGAGGTACATCTGTTTCTGAAAGCATTTTTT  
ACTGAACCAATTTTCTATACCTTTTTCTTGTTCTTTTCTTAGCTTTT  
GTTTATATGGTTGCTATATTTTTCAAGCCTCATACCATGATATAAAACC  
ATGATAAAACTTCATCAAAAGCATACTTGGGCAAAATTTCAATTATCAAGTA  
AAATTGTAAAGAAAAATTTTTACTAGTTTGGAAATAGATCTACATGTTT  
GATTTTCTTTCTTCTCCCTCCTTTGTTTCTTGTCTTTCTCTCCCTTT  
CCTAAAAAGTTAATGGCTATCATTATCTTACCAAATTAGTGTGTTGTATA  
CCCATAAAAATGTCAC

>Sequence 1004

GGTACTCCTGAACCTTAAAAGTTGAACAACAAAAAAGAAGGAAAATGCGT



Table 2

TAATACCTTATTGTAATTATTATTTTTTGGGAAGACTATTTTTTATATTCA  
GAAGAAGTGTGAGAGTCAGCAGAAAAGGGATTATTTCTCCATTTACCTACA  
ACAATGGTTTTAAATGACTGGATAGATAGAAATCTCTTTCAACTTAACTG  
CTTAGCACATTGCATTTTTCTCTGTTTCAAGTTAGTTTTCCAAAGGATTA  
CTGACTTTTTACCTAATTTGCTAAGGGATGTCAGGCCTTAATGACATATT  
TCTCCTCAAATAAAGATACAACATGCTTTTACTGTGTAGGAG

>Sequence 1005

GGTACTTCGGTATTACAGCGCCACCCACTGGCTAGAAGTCCTCATAGCAC  
ATATGAGATGTAGCCATAAAATAGATGAATTCCTTGAAATAAGGAATATAA  
CACTGACTATTCTGATTCAGTAGAACATAAAAAATGTCTAACAAAACAGG  
AACCTAGACACATTTATATTATTTTCTACAAGTAAACAGAAATATCTATTA  
GATATGTTTCAAGGGTTTTATCAATTTTGAAATCCAAGTGGATAATCCC  
CAAAATGCTGTAAGGACTTAGATTTTATAGCCAAAACAATTAACACATAAA  
ATGCTATTACATATTTGG

>Sequence 1006

ACATAGTTCGCTTGCAATTGGTCCCATTACAATCCTGTCTAAATCCTGAA  
GTAAAAATGAATACCATAGTGAAGAAATTACTTGTGCATGTGAAAGAGGC  
TGGTCCAACCTCCTTAATTGCAACAGGGATTGATTCTTCTACTAGTAGTT  
AGGAAAGGTTGCATTAATATTTCAGTAGTTAAATGTGCGATTCTAAATTT  
TTTGTAAATTTCCCATGAGAGAATAAATTTTTTCAAAAATATTCCCAGTAG  
GTGAATGGCTTAATACATGGTATCTGTGAAGATGGCAAATAAAATGACT

>Sequence 1007

GCGCACTTAGCGTGGTTCGAGGGCGAGGTACATCTAAAAGGTGATGCTAAT  
ACTTTAAAATGTTTAAAGATATAGATTTAAAAAGCATTGTAAATTTGTATAC  
TGCAGTGTCTGTCTACATGGCATTGGACAGGACATAATGTAAAACATAAAA  
GTGCAAGTTGTTACACTTACATATGATAGTTGAATGGCAAACGTGACCAA  
ATTTTTTGTACTCAAGTGTAATAACCCAAAAGACTATTACAGGTGGTCT  
AAGTGGGATTTTATGTTCTAATATGGACAAATTCCTTTGATTACTTGCAAT  
TCCACCAACAATTAAGTGGCGGTGCTTTTTTTGCTTTATGCCTTTTTGG  
TTGTGCCTTTTTGGGGTTGGTCTGCCCTAATTAAATACCGTTCCCGCTGG  
CTTTTTGGGCTTGGGGTCTG

>Sequence 1008

GGTACACTGGCTCACCTCTCAGGGCTTTGCTCCTTGGGAGGCTATTCAAG  
CTCAGCATCACCTGTCTCACATCTGTCTGGGATCCTCAAACCTGACCTTT  
GTAAATTTCCACTAACTGAAGATTGTAGAGGAAAAAAAAAACATCTTAT  
CGAATTCCTGCTCTATAGCTGATTTTAGCTATTAGGAAAAACATCCCAAG  
TTGAGCTTTTCTATTCTAGAAATTCAGATTCTTTCTTTTAAAAAATT  
TTATCTCCTTTTATAGTAGTAAAAATATTTTCCTTTTTTTTGAATGGA  
GGTCTTAAGCTCAGTGTCAAAAATAAAATCATTTTA

>Sequence 1009

ACCTTCTTGCCTACAGCGTTTAGCTCCGTTTGTGTTTGCATAAAGATCTGT  
TTTCTGACTTCGCATGAGGGGTAGTATGTTTCAAGCTTATTCTCACTATGTA  
AATTACTTAGTAAATAATAGGAAGAGATGTTGAAATACAACTTTCTGCC  
ACCAGACCTTCACTCTATTGCAGTCATTTTCTCCCACTCTCCCCCTCTC  
TCCCACTTCTCTGAGGATTACCTTCCCTCTCTCAGCATTCCTCTGTCA  
GTGGCTTTTTTTTCTTTTGGCATGCAAAACATGCTCAAGTCTGTCTTATA  
AAAAATAAAAAAAAAATTTATTTGTACCTCGGCCGGGACCACGCTAAGGG

>Sequence 1010

CCCTTAGCGTGGTTCGCTTTTCGAGGTACTCTTTTCAGATGAAAGTGTTCCG  
TCACCTGGAACCTGTGAGTATGTGGTTTTTGATCTGTGACTAACTGTCA  
CCCATTCCCAGTTTCTCTGCTCCGTCAAATATCAACATTTTACCAGGTT  
TCTCTGTTGTTGCCAAACCTGTCATTTTTATTTGGTGTGGCTTCTTGGGA  
AACTTCCATGGCCCATTTGATGGGAATCAAACAGTGAAAACAAGGACAGA  
TGCAACAGAGGTGGCATCAGGAACAAATGGGTCTATAAGAACTTACCTTGG  
CAGCAGCCCCAGAATGGTCAGGAGGAAAGGCACTCTAAGGTATCAGAAGG  
TAGAAAGGAGAGGTTGGATGATAGAATGGGGAATGGATTCTCCTCCCGT

Table 2

TCACAGAAATGAATTAATGGGAGACACAAGGGTACCACTTAATATTCCTG  
CTCTCCCTAGCATGGGTCAAGGTCACTGCCC GGCGCCGCTTTAAAGGC  
C  
>Sequence 1011  
CCCTTTTCGTGGTTCGCTGCCGAGGTACTGAGACACTGGATCCTAAGAAAA  
TCAGAGTTATAGCTAGTGGCAGTTATCAAGGGAATGCAGAGGTTTCTGTA  
TTCTGAGCATGTTTCCTGTAATAGGATAGATAGGCGATGTGGCAGCAACAA  
CTCCCAATTCGTAATGTCTTAAACAAAAACAAGTTTTATTTCCCATTTA  
TGCCATGTTTCCAGCACAGTTTCTCAGAGGGCTGTGCTCCATGCATTTAC  
TCAAGGTCTGGGAATGATCATGGCTACACTATCTTGCAGCCACCATATTT  
GGAACCTGTTGCCACTCTGATGGCAGCAGAAAAACAAAAGAAACCCAAAGA  
TCATGTATGAGCTATTCAGTCTCCAGCCCAATAGTGTTCACTTTTTAC  
TGACCAGAACTAGTCTTCCAGCTCCACCAAACTTNCACGGAAGTTCAGGA  
GCCCCAGAGGAGAGGAAAAACAACCTTGGGCCCGCGTACCTTGCCCGGGG  
GCGCTCGAAAGGC  
>Sequence 1012  
CCCTTTCGAGCGGCCGTCCTGGCAGGTACGGGCTTTTTTGTCTTGTGCA  
GTAACAGTGAGGGCATGATTAGCCATCTTTGCCAGCTGATGTCTTGTGGA  
CACCTGCCTTGTACCACTCTAACAGGCCCGTGTACGAGCTCCGCTTCC  
TCCTGACAAGCTGCGAGCACAGGGGACAGCACAATCTGAACTCTTACAG  
ATACCAACAGCAACAAAAATGAAAGCAGTTATGGTGGGCAAGCATTAACT  
TAAAATTTTTTAAAGGA  
>Sequence 1013  
ACGCGGGGGTCTCACCATGTTGGCCAGGCCGGTCTCAAATTCCTGACCT  
CAAGTGATCCTCCCCGTCAGCCTCCCCAAAGTGCCAGGATTATAAGCAG  
GAGCCACCGCGCCAGCCTATTTTGTCTTAAATTTTTTGTCTTTCAG  
TCACCACAATTTACCATGCTAAATCACAACGGTTAACAATTTAGCATC  
TTTGCTTCTTTCTGTGCACTTACGTTTTATGTAGCCAAGATCACAC  
GTTGCATTTTGTGCTTTCCTTAACAGCGTCTAAGTCATCAGCACTCTAT  
TGTGATGATTTATCTTAAAAATATTCCAAGCGATCATTTTATGTAAGTGT  
GTAATATTATATCATAAAGTTAAACATAATTTGTCAATTCAATTGTTGAA  
ATTTTTAGGTTACGTATATTTCTCTTATAAATATGTAAATATGTTTATA  
AAAAGTTATATACAGTTTTTTATAAATCTTTGTGCATACTTTATACTGTT  
TCCTTAGCATAGAGACTGTGGAATAGGATTTCTTGAAAAAAGGTAAAGT  
GTGATGTCATATATACTGGTACATATATGTTATTATTATAAAGGTAAT  
AATCTTTTTTTTTGGAGATAGAATCTAACTGCACCTCAACCTGTGTAAA  
AGTGAGACCCTGTCTCAACCAACCAGAAAAAAGAACTTCAATTAAAAAT  
TAACCTTGGGGTTAATAAATATTTGTGAAATGTTTGGTGATCAGTATATA  
CCTATAGCC  
>Sequence 1014  
ACTTATTCAGACAAGAGTTCTGACTCTCATGCTTGAGGATAAGATTATAC  
ATTTAGTATTACATTGAAGATATTTCAATTTTAAACCAGACTAACTTAGT  
ATATTGTTATTTTTAATGTGACCAAAGAAATATTTTCATAGAAGCTAATG  
CTGAGTCTTTTGATAATTTGCCGTATCTTAGTCAATCCCCAAAAATTTAT  
TTTCTACTATTTACATATTATCCTAGTGGATATTACATTACTTACTGAAG  
CCTTTGGTCTATGTTTCATCTACTCAGACTTAATTCAGGAAGAGCTTCA  
TCCAGATGTTTTGTTTATTTGTTTCTCGATTACATGTATGAGATTTCAGA  
ATTTATGAGATCATAGGTCAAGTGAAAGGTCACAGTTGAGAGGTCAAGTA  
AGAAGCTAAAAATTTGTGAAACCAAAGAAATGACAGGACAGTGCCAAATGA  
AAGGTCAAAAAGTCAAGTGACAGACTCAGTACC  
>Sequence 1015  
ACGCGGGAGAACCAGTGACAACCTGTCAAATTTATTGTAGTTAGCCAGTGAA  
TTTCATTTTTGAATTTTTCTTTCTTTGAGACAGGGTCTTGCTGTTGCT  
CAGGATGGTCTCGAACTCCTGAGCTCAAGCAATTTGCCGGAGCTCAAGTC  
TCAGCTCCCAAAGTGCTGGGATTACATGAGCCATCGCACTCTGCTGTTT  
CTGAATTTTTTAAACAAATAAATATCAAGCAATCAGATGCCAAANATTAC

Table 2

AAAGAAAATCAGTATCAAAAATTTGGAGTTTGAGGCCAGGCACGGTGGCT  
CAGGCCTATAATCCCAGCACTTTGAGAAGCTGAGGCGGGCAGATCACGAG  
GTCAGGAAATCGAGACCATCCTGGCTAGCACGGTGAAACCCCGTCTCTAC  
TAAAGTACCTCGGCCGCGACACGCTA

>Sequence 1016

GGTACTATTATAATAAGTTAACATATTTCCCCTATATGCGGAAAAATGCTG  
ACTATATCTTTTGGTTGCTTTGGAACACTATCTCCTCACACAGTCCTTG  
TCTACAGAAATGGGAAAGGGAAGGACACATTTTGGTTTCTGCAACATGGC  
AACATTTCGTAAACCAGAAATGATGTGTGACAAGAACTAAAGAAGTGA  
CGAAATTCACCTTCCATTACCCCTGGTTAAAGCTTCCTTGAATCAGAGATA  
AGAAACAACATGAAAAATCTATTCCTTTTAGAAAACAAGTCTTTAACCCA  
GAGGTTGGTTTATTTTGAAGGAATTAGACTCTGGGCCACATACCGCT  
CGTTCAAAATATAATGCTGTGGTTTCAACTCCTGCTAAATGTTGCTGTGA  
CTTTTAAGCAGAGAACTTCTAAAAGGAAGTAACCTAGGGAGGGGCTGATA  
TAACTCAGACATCAATAATTCATTTTATTGGAAATAGGAGTAGTAGTATG  
AAATGCTAGCAGACTGTTTCATTTGCAGGGAGGCATTTTCTAATTTAAGC  
CTAGAACAATGCAGTCAGCTTTATTTGGCAAGCTAATATGAATGGAGGCA  
AAGCTGAATCGAAGGAATGGTTTTATGATCTCCTCTAATCACGCTATTCT  
TTAGCATCAGTTATTTAAGTCTGACTTACCCACCTTTTGGGACCTTGGC  
AAAGTGACGAGAAAAAGGATTTTTATAACTTTGTACCTGCCCCGGCGGGCG  
GTCGAAAGT

>Sequence 1017

GGTACAATTCAACTATCATTCTGGTTGCGGTGGAAGATGGAGACTGGCTA  
TAAGGTAGAAATATGGTTTGGGGTCTTGGATATAGTCATGGGTGCTTTG  
AAGGACTGGTGACAAAGTTTGGACTTTACCTTGCAGACAGTGGGGAGCCA  
TTGAAGATTTTTTTGAGCAGGAGTGCAAGGAATCAAAGCAAATTAATTTA  
AAAAAATTTAAATTAAGGCTAGCAGGATTCACTTTTCAAACCTGGCCAGCT  
GTGGACTAAATCCAGCCTACAGATACATCTTGTGTTGACCAGCAGAGAGGC  
TTCAAAGTCTTCAATACATTGCCAACACTTAAAAATGAGAAGATTAAATA  
TAAAAATTTCAAGTTTCCATCATCTTTTTAAATATTAGGAGTTCCAGCAAT  
GCCGGGCTTTTCCCCCGCATGATCACTGAGCTGGATCTCATGTTTAAAG  
CAAGCTGTGCTCCCCGCTGCAGCTCTCTCGGTTCTCTTTTCTTTTACCTA  
CTGACCCCATATGCATTNNTAAAGATTTTTTAATTTTATGGATACATA  
ATACTTGGACCTGCCCGGCGGGCGCTCGAAAGGCGAATTCAGCCACTGG  
CCGGCGTACTAGTGGT

>Sequence 1018

CCCTTGAGCGGCCCGGGCAGGTACGCGGGTCCCTTATTTTCTGGTGT  
TTACTTGGGATGCATCAGTGAACAAAACAAAGGTATCTGCTTATGAAA  
TTTATATCATAGCAGAGGAAGACTGGAATGAATAAAATAAAGAATG  
GAGTTTGTGGAAAGGTAATAAGTTCTGTGGAACAAGGAAAACCAAGGCA  
TGGAGGTTTGGAGTGCTAAAGTGAAGGTGTGAGAACAGATTGCTCTTGCT  
CAG

>Sequence 1019

ACTTAGTTACTCCTTGCCCATAGACGTGTTTGACCTAGAAAAATTTCTTA  
TACGCAACAGATATTCATGAAATATATATTAATAAAGCTTGAAGGGTG  
AATTAATAAATATTTACTTGAAGCTACAGTGGGTGAATTAACAAATA  
TTTACTTGGAAAGCTACTTTATAGCCACTGGGCTGGATTTCATATACAGAG  
TTCTTGCCCTTGGGAGTTTTACAACCTGCTTAACACTTTGTCTATGCTAGA  
ATACATAAAAAAAAAAAAAAAAAAAGTACCTGGGCCGCGACACGCT  
TAGGG

>Sequence 1020

GGTACCTAATGCTTTTCAAGCCAGGAGCAGAAAGAGAAGTGGGCTCTTTGC  
TTTGAGAGTCTCTGAAAATTATTCAATACCCTGGGACAAATTAATGAGG  
TAGATCCTTCTTTGAATTTGTTAATAAAGCATGCTTGTGTTGTCTCCATA  
AAACAGGCTTTGACCATTAAGGTTTATTTTTAAATGGGTAAATTTATT  
GTAATACACTAATTTTAAGAAAAGAAATTAACCTCATGGCTTAAAGCAAAA

Table 2

ACCAGACCTTGGATTTACCCATAACTTTAAGGCTGGTCATTTTAACCTT  
GATTTGACACACTCTTATTATGGTGTCTTTTCTCCTTATTGGCTAAATA  
TTTCTGACCATCATAGCAATCTTTTCTATAAAGGAAGCAGGCAAGAGAGC  
TAGAGTGAAAAATGTTAAAAACAAAACAAAAAAGACAGCATACTGGCTACC  
AGTTTTTCTTAATTAAGATGATCTGTTTTCGCAATTGCGTAAATTAGAAT  
AAAAATGTTATTTAACTCAAGGATATTTCTTCACTGAAAGAAAACTTACTT  
CTACATGTAAACCTGCCATATACTTTTTCAATTAAGCAATGGATCAAAAAG  
TTCTGAAAATGA  
>Sequence 1021  
ACTTACAGTCTTAAGATATCCATACACCCCCACATCCGTCCTTTGTGCGA  
GAAGATTACTGAAAAATTTAATTCCATTTATGTCATTGGATTGTAAAAAA  
CCCCCTTCTGGATTCAAAGATGAAGGCCTCACTTACTTTATTTTGTCAAT  
TTCACAGACCCCTTATGTAAATGCCTCAAGAGTAAGAATCTTGCTCAAGT  
GATTTTTGTATCTCCAATGGCTAACAAGGAGCCTGACATAGAGTAGCTGC  
TTGGTAAATATGTGTTCAATTCATCAACAAATACCCCCAAGGTAACCTTG  
GCCGGGACCAAGCTAAGGG  
>Sequence 1022  
GGTACCGTGTGGGCCACTAATACATAAGCATCTGTGTTGGCTGGGGGTAG  
GTGTAGGGGGTGTGGGGAGAGATTAAACAAACCCCTTCTCTACTTG  
CAACATCTCTTAAAGCTTGTCAATCATGTTACTTCTTCTTTAGAGT  
TCATTTGTTTAAAGACGGAACGTGCTTCATCTTGTTCGCTTTTTCTGCAT  
TCTTTGTAACTTAATATTCTAATTAGCCCCAACACGGAAAAAGAAATGTAA  
CACAAGTGTCTTAGTTGTGCCATAGAGTTAGAATCTATCTATTAACATGT  
TTTAGTAATAACAAGAGAAATAATAAAAAACACACCTATTATGAGACGCTG  
CCCATGCCAATAAATTTGAAACATTACCAGGAATATAAAGGAAGGAAGGA  
AACAGGTGGAGACACTCAACAACAACAAAAAGGTAGGAAAAATAAATA  
GGAGAAAGGAATGGAGGTTAGAAGGAAGAAAGAGAANAAGGAGGAGGGGG  
GCTCAAGGAACTGTGGAACAAAGTGTCAATAGCTTACCTCATATTTAATC  
TTGTCACTTCATAATCCTGCCTTACTAATGCAGAGAGAGAAAAATTTCC  
TTCTGCTTAAAAAGTTGTGAATGACTTGGAATGGGGTTACCAAATATTTT  
CGCCTAATAAAATTAATTGGAAAGCATTGAATTTTACATAGTAAGGATA  
TTGCCACGCCCAGGGTTAAGCCTGTGTCCCGCCTTTGGAGGCCAAACCGG  
AGATTGTTAACCAGAGTTCAAACAACCTTGAACATGAAAACCCCTT  
>Sequence 1023  
ACATATATTTCAAACAACATTTTCTAAATTAATTAATGTTTTCACTCATA  
ATTATGTGTTCTTCCCCTTCTATATTCTCTATTTGGGGAAATAATCCCA  
TCAACCACCCAACGGCCCAAAACCAGGAACCTGAAACTAACCATATTTCCC  
TCCCATTGCACATAAATTAACCTTCTAATCCTACCTACTTATCTTTGAATC  
CACTCTTCTATTTGCAGTGGCAATACTTAGGGCTTCTTACTTTTTACCA  
GGACTATTACTAGAGCTTCTAAATGCTTTCTATCTGTAGGCTTACTCTT  
CTGCATTCTATTTTCTTCAAAAAACCCAGAGGTAATTGTTCCCAAACTGC  
ATATTCTGATCAATTGTCAACTTCCATACTTAAAAATCTCTATAATAGCTCC  
CCATAGTACCTCGGGTCGGGACCAAGCTAAAGGCGAAT  
>Sequence 1024  
GGTACCCACAATGGAAAGATGATCTTCTCTGCAATTGTGAAGGTTGTTCTCA  
TCAACCAAGCCTGCAATGACTAGACATTCTAAAGAGAAGAGTGATGGCAA  
TGGAAAGAGGACACATCCGCTTGCCAGGTCCTTCTATCAGTTGATGACA  
TGCCATATGTTATGGCTAGGTCAGCTTTCACAAGTATGCACATGCAAAA  
TAGAACTTGGGAAAAAAATCTTTGATTTGGCCCTTTACCAAGTGGATCAG  
TGTGTGAGAGTTGAGTTGAGCAAAAGGTCAGAGTTAAGTTGAATCTCCAG  
TCACTCTTTTGAACATATTTGGTGATGCCAAATTAATATAGGATATTAT  
GTAGGTAAGTATTCTGTACAGGCATTTATAGGGTGAATATACAAGATGTA  
GCCTGAGTCCGAAAAAGAACTGGCCCTTGCCCAAGACTATGCACCAAGCGG  
GTCTGAACATATACAAGTGATGTGAAAGAAAGAACAGATGGCGACGTACA  
TAGCTCCTGAATAACATTTATTGACATGTGAGCTGGTTGGTTGAATAAAA  
TGAATTTGGCTTAATAAGGCGTTTATTN

Table 2

## &gt;Sequence 1025

GGTACTTGTCTTCTCCCTTCGGACCACTCTCCCCACTAGACAGCTGTATG  
GCCGGCTCCCTCACTCTCCTCAGGTCTATCAGAGGGTGGCCACTGACCTC  
ATTGTCTCAAACATTATATAGAACACACACGCACCCATGCACGCACACCG  
TCGTTCTTCATCCGCCTGGTTCCGTGCACTATTCCAGGACCTACAGCAGT  
GCCTAGAACACAGAACATCCATTAGCAACATTGTGTTAATGAATTTATAG  
TGCCTAAACCTGCACAACCTGACTTTGCCTTGCTATTAGAAAATGCAAG  
GCCAGGCGCGGTGGCTCACACCTGTAATCCAGCACTTTGAGAGGCGGAG  
GTGGGCGGATCACTTGAGGTGAGGAGTTCAAGACAAGCCTGGCCAACATG  
GCGAAACCTATTCTTTACTAAAAATACAAAAATAACCTAGGGCTGATGGC  
ATGTGCCTATAATCCCAGCTACTAATAGAGGGTGAGGCAGGAGAATCCCT  
TGAATCCCGCGTGGCAGAGGTTGGCAGGAGCCACAACACACTACTGCACT  
CCAGCCTGGGCACACAGCAAGACTTCTGG

## &gt;Sequence 1026

GGTACTGAGGCTAATGGTCTTAGTTGGGATAAGGAGAGTGGGGAAGGGGC  
AGGGGGAGATGATGAAATTCATTTATCCTCTGTGATGCTATGGAAGAACA  
ATTAAGATCATGTTTCCTACTTGATTTTAGTTGCTAGTCAATTTCTTAATC  
TAAGCACCCCTATAATTTACCTATGTCATCATGCAAAATCACCATCGGT  
AATAATGTGGGGCGGGGGAAGTCTATACAAGAAATTTAAGGCCCTGTGC  
GTGAGCATGTCTATAGTTAAAGACTTAATGAGAAAGCATCAAATTGTGGT  
GCAACAGCTGAAAGTAGAAGTAAATCACAACGTAATAAGATGCAACTTT  
GGAGGAGCTCAAAGCAACAGATACGTTTTATCCAAAAAGGAGTAAAAGA  
AAAAAATCGTCAACGGCAGTTCTTCAGATAATCAACTGATGATTTTCATT  
TGAAACCATAATTAAGTAGCGTTGTTGTAAAATAACTTTTTTCCATTTA  
TACTTTTTAATGTTTATTACATTACTTTTCTCTATATATTTGCACATAAG  
ATGTCTTAATGTGTAAGTGGTATAT

## &gt;Sequence 1027

GGTACTAATTCCTTTTCTCTTTCTTAGACCGATTCTAGTTTGTGCTTC  
CCTTTCTCGGAAACCCCAAGTTTGTGGATGCTGCAGACACTCTGTGCC  
CCCTGCATGCTGGGTGCCTGGCCAGCTGCCAGGGCATAAAGACAGAGACG  
ATGTGGCCTTTGTCTTAAGAAATGAGGTTTGAAAGCCCCAGTTCTTCCAT  
GTTAGGTGATTTCTTGCAGCTCTGGTATCTGCAGAAATTAGTGTGAATGC  
TTAAAAAATATTAACAGCTTTATATCATGAAAGTTTNAACATGTACCTGC  
CCGGGCGGACGCTAGAAAGGG

## &gt;Sequence 1028

GGTACTATGGGTGTAGTGTTACTATTACAGTTAATCCGTCCTTTGTGTGA  
GCTGTTAAATGCAGTGAGGATTGGAGCACTGTCCACTGAATCTCTGTGCA  
ACAACCTAATGGTGTGGCAGGGGTATCCGGTGTCTGGCTCTGATCTTGGT  
CGCTGGATAGTCGACTGTGTGCTTTGTTGCCAAAGGCGACAGCTTTGGT  
ATGGGTGCGGCGGATTGATTGGCCAAGATGCTGCTAGTAATTTAGGAG  
AGAATACTTCGGTTGCTGCTAGAAGATCAGCCATGGTAGTTTATGGTTTC  
TGAGAACAGAGGGTGACACAATGTCTAGTGTGCCATGAACGGTTTTGT  
ATAGTACCTGCCGAGGTGGCCGCTCGAAGGGCAAATTCATAACCGTGGC  
GGCCTGTATTATTAGTATTAGGTTATGTACCAATCGTGGCGTTGATGAT  
GGTCATGCTCTGTTGGCTAGGAGAACATTGGATATAGTTAGGAGTGGTCG  
CAAGATTTAGGCGTGGAGCATAGAGAGTAAAGAGTGGAGGGCTGACTGAG  
AGGGAAAATTTTAGTGATTGGGTTAGGCTGT

## &gt;Sequence 1029

ACTTAAACATTTNAGACTCACTGTGTAGCCTTCTTGGAATCGGGAATTCG  
CTTAATGCTGTCCGTGAAAAAATAGCCTTTAACATCTGTTTGATTGAGAT  
TTGTGATACATAGAAGTTGGGAGGAAGATGTGGAAAGCCCTAAGAGAGCT  
ACTTGCCAAACCCACCATCAGGTCTGCCTCAGTGTTCCTAGTCAGGACAG  
ACGAGGCCGAGTCTGATATTAGATAGTCTTTGAATGCAACATAAACAGAC  
CACAGGGACTGGTATGTAGCAAATGGTCAATATATAATGTACATAGGAAT  
GAAATGGAAATGATAGTGAGTTGGATTTCAGAGTGTAGAAGACTTTATTT  
AGAACATAGTGGGGGCCCTTAAGTTGGTTACTTCCAAGGGAGAAGTTGAGA

Table 2

TCTGAGGGTAAATGAATTATTGAACTGCCTATAGGTTGCACAGCATACCT  
ATAGAAATGGTGGCACCAGATTTATTTTGCCTTGAGAGCGCATGTGGCTA  
TTTAGGGTGTACCTGCTTTTCCCAAAGGGTGGCTAGCGTGAGCTTACCT  
TCTGGTATTCATGGAGGAAT  
>Sequence 1030  
CCCTTTGAGCGGCCGCCCGGGCAGGTACTTTGACCTGTATGTAACTCTA  
GTTACTTTGGTCTTCTCAGGCTCTTGACTCTTTCACAATTAAAGTAGTCT  
TTGAGGCTCAGCCTGCTTTCCTCATAGCTATGCTATGGCCTGGACACTCA  
GGGGAGTATAAGCTGAGGCAAACATGGACTCATTTGTTTTCTAACTTTCA  
GGGATTATTGTCCATCATTGCCTGATGTCCAGTGTCTTGAAAAGCAATT  
TTCTGAGTAGTTACTTGATTGTTTCGGTGTAGGTTCAAGGAGGCAAATCTG  
GGGTCAATGTTATTCTGTCTTGACTGGGAGGAGAAAAGCCACTGTTTTTTT  
TAGTGGCATAGTATGGTCTTAGGAGGTGTAGAAGTACGTCGATGCTGTGT  
AATGACAATTGGAGATACTCGGAGGGGCTGCACCAGCAGGGTAGGAGTTG  
GACGTACCCCAAGTGGAAATTTCTACGAGGGATGGAAATCGAAGGGGAGAGG  
CAGAGTGGGAGGGTAGCATGGGGCCTTTGTGGGATTGGAGGGAGATTGCT  
GTGGCCAGGGGAGATTAGTGCTAAAGGAATTTTGGGAAACATGAATGGCTT  
>Sequence 1031  
GGTACCATTGTTTTGTTCAAAATCACAATTTAAATACTTCGTGATTTTAG  
AAATAATGGAGCCACGTTTTCCACCTAAGGTGAGTGATTGTTTCAGATAC  
ATTTGGCACTGTCCATAGGTTTATGGCTTCCAACCTGTTTAAAGACCATTC  
CCAGAGTGAGAGCTGATTTGCCATGGTTATGAAGCTTTCAGGATATAAAC  
TATAAGAATGACAACTACAGCAGTTGAAAATGTGTCTTCAGATACTCAC  
TTGCAACTCCCATTTATGTCTCTAGGGATTGAGAAATGAGGATCGAGGGA  
CCAAATCTGGCTTGGTCAGTAAGAGTGTAGGTAACATATAAATATTAATG  
TTCGTTGCAGTTAGTGTGGTACCTGCCCGGGCGGCCGCTCAAGGG  
>Sequence 1032  
GGTACAGTGGTGTGATCGCAGCTCACTGCAGCCTCAACCTCCCGGGCCCA  
AGCAATCCTCCACCTCAGCCTCCCAAGTAGCTGTGTTCCAAAGAAATTT  
ATTTATAAAACAGGTGTTGGGCTGGACTTGACCCGTGGGCCACAGTTTGT  
CAACTGCCATTCTGTAAGCTTAACATGTGTTAATTACTGCAATCTGAATA  
ACAATGCTATGATATAGACACTGTGTTCTTTTAAATAGACAAAGGAACCC  
AGGCACAGAAGGATTGACTAATATGACCAAAGTCACACTGCCAGTGAGTA  
GCAAGCCTGAGCTCTGAACCATGACAGTTCACATCTTCCACGACAGCAGC  
TTCTCAATGCTCTTTGGAGGGACCAGAGCCAGGCAGTAGCAACGGCTAT  
GAGGTGGTGAGACATGACCAGCAGATAAGCCCTGGGCAATTGGCCAGAGC  
TGGAGGGAGTGGAGAACTAGCCATNTGTGACTTTGTGAACATCCCTGGGG  
AGTCTGGAATTACCCAAGAG  
>Sequence 1033  
GGTACTAGATTGGGTGTGTGTTAAGAGAAAAGACAGGAGTCAAAGATAG  
TTCCAAAACCTTTTGAACAGAACTGGATGAATACTGTTTACTGAGATGG  
GGAACACTTAGAGAAAAATGCATTTGGAAAGCAGAAATACGATCAAGACT  
TCCATTTTTGATACATTAAGCTTGGTATGTTAATTCATAGCTATATAGA  
GGTATTAATTTGGCAGGACAAAATCATAGCTAGAGATAAAAATTTAGAGT  
TCACCAGTGTAAAGATGATATTTGATGGCACAGGATGGACTTTCTTCTGG  
GATTGAGTATACATAGA  
>Sequence 1034  
CGCTATAGTGAGTCCGACACGCGTCCGATCACGCGTGGGCAGGCATTAGT  
TATCGCCCACTTTATCGAGTGTGAGCATACCACAGTACTGATTACTGTGA  
AGCTGAGTCCCATTTTATATGTTTATTGATGTTAAGATTTTCTGTTCAA  
CAAATTTGTTTCAATTTCTTTGCCCGTTTTTTCTTTATGAGTAATTTCTTGT  
ATATTCTGGATGTTGATCATTATGGATTATAAAAGCTGCAAGTATCTTCA  
CAAAAAACGAATTTCTGGCGGACCGAACAAATTTATGACTGACAAAAAGA  
ACGGGGGGGGCGCCTTTCCACTCTTTAAAAAAAACACCCCCCACCTCC  
CCCTAACCTAAAAAAAAGAAAACGCGGGTGGTGGTTACCACCTTGTG  
TCTGGCACTTATTGGTGGCCACTAAAAAACCATTTGCCATAACTTATTCA

Table 2

AAAAAAGCGTCTTTTTGTCTGCTGTATACCAAGCGGTGGCAGGCCCCCAC  
TCAAGAGTTTTTTTTTATTGGGTGGCGGGCCCCCGGGTTCCCCGAACAA  
AAAATTAATTCAATTATTGCTTCTTTCAACAACCACATTAATTACTTTTCG  
TTGAGTATGTCTGGCCAGCGGGCCAGTCGTTTTCTTCTTACACCAGAGG  
GCGTTTTTTGCTGTTTTCCACACAAGAATCTGGTTGAATCTCCGTCGAAG  
AAAATAATGTTGTTAAGTAAAAGCGGCCGGATCGGTGGTCTGCCCCCTTA  
TAAGGGGCGCCCTGGATGGATGGCCTTTATAAAACGGGGCCGCGCCCTTA  
GGTTGGCAGGCAATTAATAATTATCGGTCTCTATAGGTTGGGTGGTTGAC  
CAAACCCCCATTACT

>Sequence 1035  
ACCATTTAACTGAGTGAAAGCTTTACAATTGAGGGGTTACTCATTAGCAG  
GACCTGGGTTTTGTTTTAATCTCATTAAACCCCTTGTTACCCATTTGATA  
ACAAAGACTTCAAGGAAGAATTTGCTCAAAAATCTCTGGGAGACAGTAAT  
AGCTTCTTGGGCCTGACTGATAAACTTTTTGCTCCAGCAATGGAAATGT  
GGGAAAATTCAGATGCTAAATGATCTGGCTTGGACCCAGCAGGTTGAGG  
TAGTGGAGCCTTTTCGATTGAGGCACAGCCCAGGACTGCTGCAAGGGAGAG  
GCACAACAGATA

>Sequence 1036  
TGTATATGGGAGTCGACCCACGCGTCCGGTTCGAGCGGTACCACGAGGAC  
GCACATATGCTGGACACTCAGTACCGCATGCATGAGGGCATCTGTGCCTT  
CCCCCTCTGTGGCGTTCTACAAGAGCAAGCTGAAGACGTGGCAGGGCCTGA  
GGAGGGCCGCCAGTGTCTTGGGCCACGCTGGCAAGGAAGCTGTCTGTCA  
TCTTTGGCCACGCTGCAGGGCCACGAGCGGAGCCTGCTGGTGTCCACGGAC  
GAAGGGAATGAGAACTCCAAGGCCAACCTGGAGGAGGTGGCTGATGTGGT  
CCGTATCACCAAGCAGCTGACCTTGGGGAGGACCGTAGAGCCCCAGGACA  
TCGCCGTGCTACGCCCTACAACGCGCAGGCCTCTGAGATCAGCAAGGCC  
CTTCGGCGAGAGGGCATCGCCGGGTGGCCGTGTCTCCATCACCAAGAG  
CCAAGGGAGCGAGTGGCGCTATGTGCTGGTGAGCACCGTCCGCACCTGTG  
CCAAGAGCGACCTGGACCAACGGCCCCACCAAGAGCTGGCTCAAGAAGTTT  
CTGGGCTTCGTTGTGGACCCCAACCAAGTGAACGTGGCTGTACGCGGGC  
CCAAGAGGGGCTCTGCCTGATCCGAGACCAACCTCTTCTGCGCTGGTTGG  
CCCTTTGGCGTAACCTCCTGACTTCTGGGAGGCTCAACAAAACCTTGT  
GCCTGCCCCGCCAGGTGCGCGTCTTGAGGAAGCCAACATATGCCTTTCTGAA  
GAGCCCTTTTCACCTGCAGGTCCCAGACTGGAGGGAAGATCAGGGCCCCC  
C

>Sequence 1037  
ACCATTTAACTGAGTGAAAGCTTTACAATTGAGGGGTTACTCATTAGCAG  
GACCTGGGTTTTGTTTTAATCTCATTAAACCCCTTGTTACCCATTTGATA  
ACAAAGACTTCAAGGAAGAATTTGCTCAAAAATCTCTGGGAGACAGTAAT  
AGCTTCTTGGGCCTGACTGATAAACTTTTTGCTCCAGCAATGGAAATGT  
GGGAAAATTCAGATGCTAAATGATCTGGCTTGGACCCAGCAGGTTGAGG  
TAGTGGAGCCTTTTCGATTGAGGCACAGCCCAGGACTGCTTGCAAGGGAAA  
AGCACAACAGATACCATAAGGAGGTCTGATTTCTGAAAGGAATACCTTGG  
CCCGCAACACCCTAAGGG

>Sequence 1038  
CCCTTTTCGAGCGGCCGTTTCGGGCAGGTACTTTGACTATTTTTTAGCAACA  
AATTACTTTTGACACACAGCACAAATTGATTTAACACTTCCAATTTTGAA  
CTATTGGATAAAATAATGATGGGATTTAAATAAAGCAATCCGATTCTACTA  
TTACAGCATAGGGTCTCTTGTAGTCCTCTTAGTAAAAACTATTGTGACAC  
TTCCTTCTTCTCCAAATATTTCGGCCTGAAAAGACCTAAATACAATGCAG  
GGATTGAATCAAATTCACACATTTTTTTTCTACGGAAACAACAACCTTT  
CTTGCTTATATTTAACAAAAACTAGTA

>Sequence 1039  
GGTACTTAGATCAGATGGATTGAAACATGACAGCCCCATTTATCTGGCC  
GGTTAAGGTCCTCATGGAATGAAAAACACTTTCGGGCACTCTCCTATGAG  
AGAGAGAATGGGTTTCTTTAATTGCCAGATTGTCTGAACACAGCCTCAGC

Table 2

TACTTCTAGGAATAAGACGAAGCAGTGAGGAAGTTGCCAGTTGAGTGATT  
CTTGGGGAAAAAATTAGCATTTCAGTGCCAGCTCTCTAAAGTGTTGGATTTC  
TGGATTCTGGTAGAAGCCAGTAAAGAAACGTTTCTCTGGAGTGGAAGCT  
AGTAAGATTTATTCTGTGGTGATGAAGCCATCTGAAACCTTACAAGCAGT  
GTGGTTGTATCAGCATATGGGAGCTGACTGCCTCAGGACTTTGG

>Sequence 1040

ACTCTTATCAACTGTTTTATAGATGAGAAAACATTAGCCACAGCTTAGCT  
TATTTGAAGTCACAATAATATTAAGTAAGAGCAAAAGCCAAGATTTC  
AAATGTAGATTATTTTACTACAGACTGAGAAACGAATTAAGTAGGAGCC  
TAAGATACTTTCTGGAATTGAAATGATACATTATATACCTATAAAGAT  
AATTGGCTATAGCTTCTAACTACAAATTGTCATAAAAAATGACTTCTGT  
CCTATATCAATTAGAACTGGTATTAATTTAGATTATAAGACAATAG  
AATGTC

>Sequence 1041

ACTGCAGGGCCCAAGAGCATACAAAGCTAGTTATTTGGATCCAAAGTTGG  
TCAAGTGTGCAGTGTAGACATCATGATCTAGGCAACAGAATTCCTGG  
CCTGAAATATGTCACTAGTTAGAAACATTAGAAGCTTTCAGGTAAATAAA  
TATAAAAAACCAGTCAACCGTATTCTTATTTCTTCGTCAGAGAATCATGT  
GTCGTTTGGTTTAACTTCTGCTGGATTCTGGATGGGAGTTGTTGAACAT  
ATTAATCTCATTATTTCTGTAGAGGACAGGTTGTCCCCCTTCTCATT  
AGCGCN

>Sequence 1042

GGTACCCTGCTTTGATTATTTCCGAATCCAGTGGGTAGAGAAGGTAAAGG  
CAAGGGCTCACTGGATATTTTTAAATTGTAGGGATGTCCTTTGCTCTGGG  
TCAATTTTAGGATCAAATATAAAAGCACCTATAGCTCAGAGTATCTTCTA  
ACATAAACTTCTGAGATACCAGAAATTTTCCAAAACATGGTATAAACAG  
TATGAAACACTGGGTAGATAAAAGCTTCTCTAAATCTTAAAGTGCTCAA  
ATATCATGACCTGATTTTTAGTTTTAGAAATCAGATATTTTCTATTCC  
ATATCTTAAACTTTN

>Sequence 1043

GGTACCCGTTTGTCCATGGCTATTCCAAATACCCCCATGTTTATTTAAAA  
TGTATATATAATCAGTTACATAAAAAAGAGGTATGCTTAAATTGTCATGAC  
TCTATGGTTGGACCTCTGTGGTTGGAGCAGGCAATAGAAATGTCTGTAAT  
TCATTTAAAAAAGAGTGACTTTCTACCTTTAGATAGTGAGGACAATC  
TGTTAACTCTTTGTGTTGATAAAAGCAAACATTTACGGGCACGGTGAAAG  
AAATCTCTACCATGTATAAGGTTATATATATACCAGAAGCAGTGGAGTTA  
GGACCAAATTAAGATTGAC

>Sequence 1044

GGTACATAATGTAATTGTTACATATAATTGTTGTATACCATAACTTACTA  
TTTTTCTTTTTATTTTTATATATAATTTTTTTTGGTTTGTGTTG  
TTTTTAATAAACTGTTATCACTTAAAAAAAAAAAAAAAAAAAAAAAAAAAA  
AAAGTC

>Sequence 1045

ACTTTTCTGGGTTGTGAATCTTGGAGGTTGCCCTGTCAGACTGGTGAGA  
TCCCAGTTTAGCTGTGCTAGCTAAAGCAAGGAGAACAGAGAGGCCATAG  
ATACTTTTGCTTAGTAAAACTTTCTTTGAGGGTAGGGACTGGAGTATGG  
AACCTTTTCAGAGGAATGAGAGGGGCTTGTGACGAAAGGGTAGAGGAGGG  
AATACCTCCCTGCAAAATCTTACACAATACTAATGTCATAAGGCCGAG  
GATGAGAAAGTAGCACTTAAGTGTTCATCCTCATCACACATAAAGCATT  
CCN

>Sequence 1046

ACAGCACTTTCAAAGTAGTGGAATATAAATCTTTCCATTTAACAGCAACA  
TTCAAATATTTCCCATCTGCTTATTATCCTCTCTGAAGGTGATACATA  
GAAATATAGGAGCAAACACAGCAATGCAGGCGCTCTATGATCTGGTTTGC  
TCACATAGATCTTAAAGGAGAGAATGAGGGATTTGCCTACAACCCACA  
GCCAATCTATGTGGACACAAAGGGTGACTTCTTCCTTCTATTACGTTCT



Table 2

TGAGGTAGAAATGGTAAACTAGCATGACCTCGAATCATAATTTAATATCA  
TTCTAA

>Sequence 1047

ACATTATTGGTAGTATCTCAGAATCCTGCTTAGCTTTTGAGATAAACCAA  
GTCATGATATTTTGGGTAATATGGCCATAGGTATCATGCAAGATTGAACT  
GCCCAGTATTTGCCTTTTCAATTTTACTTTGTAAGAACCTGACACTGT  
AGGTCCTCACCACACCAAAACCTGCAACATAAACTTCAATTTTGGGCAAC  
TCATAGACCAAAAAAGCTAAACAAAACAAAAAGGAAAAAACCTCTATAT  
ACAATCACCTGCTTGTCTACATTTAATTTGCTTCATTCANAATAAGCAG  
TCACTGC

>Sequence 1048

ACAACACTTTAAAAAGTGAATTATAAGCTATGTGAATATCTCAATAAAAA  
CATTTTTTAAATAAAAAACAATCCCAAAGGCCTGGAAATTCAGGAACATA  
ATTCAAAATAATTTATGGATCAGAAAATAAATCATATAAAGATCTGAGAA  
CTACAATGTAAAAATATAGAAAAAGTCATAACACTATTAGATAAAAAATC  
TGAGCTGGATAACAAAGATAGTACC

>Sequence 1049

ACCTATAAACAAAGGCATCATAAATAGATATAAAGCCAGAAGAAAAGGGA  
TCTAAAGTAGACAGAGAAGATAGGCTGACTCTCCAGTTGCAGATTTTCAT  
TATCAGCTCATCACACCACCGAAACTCTCTGGTGATTGCTATCCACATC  
CATGGCGTTTGGTGGCCCTAAAGATTGTAACGGCCCCCATCCTCTGGTT  
AAAAATGGCAGGTGTGTTGACAAGAACTGTCTTAGGTACC

>Sequence 1050

ACCTCTCATCTCCAAATCAACTAGACTCTTATGTTAAGAATACTAACAAG  
AAAAAATCCAAACCCCAATAGAAAAATCCCAACAACAACATATACCCT  
TAAACACAAGAAATTGTATTATTCAATGAAAGCAATACAAGTAAACACAAC  
AGTTACCTTGGCTATTTTTTCAATGTACC

>Sequence 1051

ACCCATCTCTCCATTCTGGGAATCTGGGAACTAAGCCTGTAACCTGTA  
GCTTGTAGAATGAATGATGGAGTAGAATAAATAAGAAAGGAATATATCAT  
TAAATGCACAGGTAAATAAATAAAAAATCTATTAATAAAGAGCCTAAAGA  
AAGAAAGATGACATTTCAGCACATATTGGGTGAAATAAGTTGTTTAGTCC  
AGCACTTCTCAATTTTTAGTGGATATGTGAATTGCCTATTAATAATGCAA  
TTTTAAATTAGTTAATCTGGGTTGGACCTGAGTCTGCGTTTCCAACAAGC  
TCCCAGGTGATGTCN

>Sequence 1052

ACGCGGGTATAGCTATATACTCATATTTTTATTTTTATGTAAAATTTCCA  
AAATGCTTAATATGGCAGTATAATAATTATAACTAGATTTACTTCAAAAC  
ATAGACATAAAGAAGATTACATGCCTGTAGAAGTTCAATTGAATTAGGAAT  
CACATGCTATTTATTTTAGCAGATATCTTCTTAATTAAATGTTTGACCCA  
TGTGAAGTCATTTAACAGATCTGTTACGCATTATTCACATATGCAAAATA  
ATCTATATGATCTGAATACCATTTCCATCTTTAAATTTACATATTCTT

>Sequence 1053

ACAATCAAAAAAAGACAAAAAAGAAATGGTGTTAAAGGCCACAGTAAACA  
TAAACCTCATATCAAGTATAAAACACACACACTTTGCTCTTCATCCGGA  
CAATGCCCAAAATTATACTGAGGTATTGGGGTGGGCTGATACCTTCAAAC  
AGGGAGAGAGGGACCATGTTTCAAGAGGTGATTCTCGATTAGGTGGTG  
ACTGAAATTTTTTTTTAAGACAGGGTCTCACTCTGTCAACCAGGCTGGA  
ATGCAGTGACGTGATCTCGGCTCACTGCAGCATCAACCTCCTGGGCTCAA  
GCGATCCTCCCACTCAGC

>Sequence 1054

ACAATGAAAATTACAAAATACTGTTGAGAGAAATTAAGAAGACAAATAA  
ATGAAAAGAGACGGAACATGTTTTCGCTTGTA AAACTCAGTAGGATTAAG  
ATCTCTTCTCTCCACGACTCTATAGCTTTAAAGCAATCAAAATCAGACT  
GGTTTTGTCTGAACGTTTTTGAATAAGTCAATGGCTTATTTCAAAATCA  
TATGAAAATTTCAAAATGCCAAAGAAATAGGCAAAATATTTCAGAAAAGAAGA

Table 2

AAGATTGAGGATTTGCAATAACTGACTTCAAACTCACTAGAAGAACGAG  
GCCAGACTGCCAGGGT

>Sequence 1055

GGTACCCACCACGTTTCATGTCTCCTCTAGCCAACTATAAAGTTATTAACA  
CAAGAACCCTGTCTTATTCATCACAGTATCACCCACAGGGGCTGAGACAG  
TGCTTACACAGAAATGGCCCTTGATAAAATATGGGCTGAATGAATGAACA  
TATGAATTTGACACTTTGAGAACTAAATTTAAAGTTATTTCTACTAGCAT  
TTTTAACACAAGAACTATTGAGATTACTTATATATTAGTAGTAAATGTT  
TGCTTTATTCATTTGATTGGCAAACCTATAATGAACTCAGTGAAACTTGT  
CCACCTTTTCTACATGTN

>Sequence 1056

ACATTAACCTACTGACTTACTCTGGGTTGCTATTGTATTAATAATTCTGTA  
TAGACATTACGTAGCCTCAGAGTTGAATTTGGACTGCCCTTAAAAATAAAA  
AATTCCTAAATCTTAGTGTTGCTATTAATTTTATGATGATTIACA  
AGTTGGAAATGATTACTTTGCAAGTCATAGTTTACTTTGAAGTTAATAAG  
AGTGATTACAGTAAAGGAAAAATGCCATATATGGCATTGTTCTTAACAGC  
TTATGAAATTTGGAAAACGATATTTTAGAAAGCTTCTCTTGTGGCTGG  
AATGAAGTGGAGACCCTGCTG

>Sequence 1057

ACAGCTTGTTGAGGATATTTCTTCTATTTTCTTTGAGTTCTTGTTTCAT  
ATTCTAGTTAATTTCTAGTAGTTCTTAATGTATTTTAACCAATAGACTTT  
TGTCTTCTCTGCTTATGTATTCCTCGTAAATGCTTTTTGTGACTTGTC  
TAAGTATAAACAACTTTACTATTAGCTGTAAATTTTCATTTTATGATG  
TCATCAATCTTTTTTGTGTTTAGTATGATTAAATGTTTTTCACTTGGA  
AGATATGAATAGTCTACTTCATTGATTTTTTTTAAAGTCATTTCTTTT  
TATTTTTGTAGCTACAAAATCATAAACN

>Sequence 1058

ACTATACCAGAGTTAAATTGCCTGTGTTCTTTTCTGCCATTAACTGGCTT  
TGGGTTGGGAAATTCAGATAATCCACTTTTCCAACCTTAAAAATGAGATCT  
CATTCAAAACAAAATTGCCACAACCAATTTGGAATATGTGTTTAAATTAG  
ACAGTAATGCTTTGGAAAGTGGAATTAACATTTCAGAATAATAGCTGTT  
AGCCCGGGCTCAATGGCTCACGCCTGTAGGGAGGCTGAGGCAGGTGGATC  
ACCTGAGGTCAGGAGTTCGAGACCAGCCTGGCCAACATGTTAAACCCCTA  
TCTCTATTAATAAATACAAAAATGAGGCATGGTTGGCAGGTGCCCGTTGTC  
CCAGCTACTTAGGAGGCTGAGGCAGGAGAATTGCTTGAACCAGGGAGGTG  
GAGGTTGCAGTAAGCTGAGATTGCGCCAGTGCACTTAACCTGGGCAACA  
AGAGTGAGATTCTGTCTCAAAAAATAATAATAATTAATAATAATAGTTG  
TTAGATTGAACATAGAAAACACGTTTTTGTAGATAAAAAATTTGCCAAGTG  
TCAGCCAACCTTTGACAATTTTAAATCACCACCTTGTCCTTTACCTCA  
TTTAAATGAAGCATTTAATGGACACAAAAACCCTTTAAAGCAGTTTTTTCG  
GAAGAAAACCCAGTGTTCGCTGGACCGGATGCCACCTATTAGTACGGCC  
CGAGAGAAAT

>Sequence 1059

CCCTTAGCGTGGTCGCGGGCCGAGGTACTTTAACAAATTAATAACAAAT  
TTAATTTAAATATTTTAGAAATTTTACTTAATACATTTATTTAATGAAG  
GCTGCTTTTAAAGAACTTTAAATCCTCACGTAAACACCACCCTGCAAAG  
TATTAATATCAACTTTTCAACAAAATGCCTGCTATGTATAAGCTACTGA  
AAGAAGACAAAAATTAATAAAATGTGTCCCTCCTCTTAGATATCTATAAT  
CTAGGAAAAATGAACACATTCTTTTCAGACACTAACTCCATAAGAACAGG  
CATCAGATCTATCTTATTTACCACCACATCCTGAGAAATGGAGCACAGTGC  
CTGACACATAATAGATGCTCATAATAGATGCTCAGGGTTTATAGTCAGTG  
AATAAGTAAAGAAATGAGTGAGCAAATATCTCTTAAAAAGAACAGACTTT  
TAAAGTTAAACAGCAGTGATGTGTTATTCAGTAGCAAATAAGATTGTTTC  
CTAATGTCATAATTCAATTNTCCCTGCTTCCTACTATGACTAGATGTTGG  
TTGGTGATAGTTTATATGATTACGTTATTTGGTTGGTTGATTTAAACAG  
TGAAATAATCTACAAAACCTGCAGTTGTNCTGCTATTCTCTAGATGGAAA

Table 2

AGGCTTATAAAATTTGGTCAAAAAGGTGGGGGGGGATATAGGGCCCCTTAC  
CATTATATATGTGATTTTTAAAAATTGGCAATCATGTTTT

>Sequence 1060

ACAGTTACCAAAAACCCATCCAATAAAAAATTTAAGCTTTTTGCATTTTAG  
TGGATGCAAATTGTGTCTTAGTAAGAAGAACATACAAAACTAAGAAAGA  
TAATGTTGAAGAAAATAACAAAGCTTAAGGACTTAACTATTACCATCAA  
GACATGTATACTACAGTAATTTAAAAAAGTGTCTTGCCATAAGTATA  
GAGAAATGTACC

>Sequence 1061

GGTACTTACGCTTTATGATCTTGAATATTTTCAGTGTTTAAGGAATCTCT  
TCCTTCTTTGATCTCCACTGCATGNAAGAACTCTGTTGCAGGTGTTAACA  
AGGAAGTTTGAAATAGAAAGCCAGAACCTGCCCCCAAAGATCTGACAGT  
AGTAGAAGGAGATCCATTATTAAGAAGGTATAATGGCAACANAAGAATAA  
TCACAAATTATCTGTGTGTGTAATATGTGTTGTGTGGTGTGGGTCAAGGA  
GATGAGGAAAGTGGTTAGGGAAGACTTTATGGAGGAAGTGGGCTGTCAAC  
AGGGATTGAATGTGTGACAAGAAAAGTTGGGGGGAATTCATGGTAATGACTG  
ACTTAGGCATTTTAAAAACAAGGTATGCTTGTGAAAGGCAAACCCCATGG  
TTGCAACAACAGAAAGCTAATTGCTTCCTTTGCCCTGGAGTTTACTGGGGGC  
CTTTTTAGTTTTGGTTCCTTCCTGGTCTTCGGTCCAAAACACAGGAAGG  
GTGGAGGAGGGAAGGAAGGAAACCCCTGGAACCCCTTTATAGGGTCTAACTAT  
GCTTGGAAAAACAGGGGTACTTGTGCCCCCATTTATTTGGCAATGGAAAT  
AACTGGCCACACTGGATTTCTTAAAGGGGGCTCCTTTTTTGGAAAAAT  
TGTGCAAAACGGCCGGGTGAAACAGGGGGGATTTTAAAAACAGGGGGTTA  
TTTCTTCCCT

>Sequence 1062

GGTACTTTAACAATTA AAAACAAATTTTAATTTAAAAATATTTTAGAAAT  
TTTACTTAATACATTTATTTAATGAAGGGCTGCTTTTAAGAAAACCTTAA  
ATCCTCACGTANACCACCACCACCTGCAAAGTATTAATATTCAACTTTTT  
CAACAAAATGCCTGCTATGTATAAGCTACTGAAAGAAGACAAAAATTAAT  
AAAATGTGTCCCTCCTCTTAGATATCTATAATCTAGGAAAAATGAACACAT  
TCTTTTCAGACACTAACTCCATAAGAACAGGCATCAGATCTATCTTATT  
TACCACCACATCCTGAGAATGGAGCACAGTGCCTGACACATAATAGATGC  
TCATAATAGATGCTCAGGGTTTATAGTCAGTGAATAAGTAAAGAAATGAG  
TGAGCAAATTTCTCTTAAAGAACAGACTTTTAAAGTAACAAGCAAGTGA  
TTGGGTTATCAATAGCAAATTAAGATTGTTTTCTAATGGCATAATTCAAT  
TTTCCCGCTTCTACTATGACTAGATGTTGGGTGGTGAATGGTTATAT  
GATTCAATTTATTTGGTTGGGTGGATTAAACCGGGAAATTTCTACCAAAC  
CTGCAGTTGGGCCTGCTTTCTTAAAGGGAGAGGCCCTTTTAAATTTGGG  
GCAAAAGGGTGGGGGTTTTAGGCCCTTCCCATTTTATATTGGGATT  
TAAAAATGGCATTCCGTGTTTTTTTCCAACG

>Sequence 1063

ACACAAATTTCTAGGTAATCTAAATTTTAAATGTCTAGAAATTTTTTTC  
TTTTATGAACCAGATCACAGTTTCTGACATCGCCTAACCATGTAAAACGG  
GTGAAGCCTTCAGTCTTGGTCTGTTATCTCTTCCCATTACAACCTGGTTTC  
AGTAAACAATTGCAGGGCGGCAGGATAACCTCATATTGGAATTGTTAGAA  
AACACGCAGTGTTTTACAGATGCCCTACATTAACACACNCTTCATAGAGA  
CGTGGTCTCTTCATTATGTATGGTTATGGTATGATCGTTAAACCATCAAT  
ATATACTGGTTAACAATTTTTAGTAGGTAGTTATTCCTTTCGCTTTTGTA  
ATAATATCCCAGTTTTGGTCTGTAACCGGTAATTACCTTTTTTCGTAATTC  
GATTTTTAGGTAAAATGGTTACCCATTAATTTAAGAGATAAAAAATAAG  
TCTCTACTTTTGGAGTCTTTAAGGTTGTCTATATTGGCCACTTTTGTG  
CCAACTGGAACCAAGAAAGGTGCTAAAACCATAAATCGTTGGGAATTAAAC  
CCGGACTTTTTAAGGGAATGGAGAGATTCTTTCGACCACCCAGTTTTATT  
AAAAAGACCCCTAATAAGGATCCCCGATTACATGGGGGGTGGGTGTGTAC  
CAGGAGGATTATCAAACCTTATAGAGAGGGTTTTCTCTTTATTCTGGCG  
CTTTATAAAATATATTTGGATATTTTGGCACATATAGGGCTCAGGAACAA

Table 2

CCCTAGAGGTTTGTGGTAAAATACAAAAAATTGGCGCTTTGGAGGGCGA  
TCTTCATAAACCCCTGGGGCCCTCCAAAAGAGAAAAATAAATAAAAAAT  
>Sequence 1064  
ACTTACTACAAGCAGCAAAAAGGAAGCTCTAGAACAAGGAATTAAACACAG  
TGTTTGTTCCTCAATCGCAGAAGAGGCCATGAGCACCATATGTGTGTCAGG  
CTTATCATCTGAACCAAGAAAGGCCAATCCTTCACCTTCTTATGACTC  
TTATAGGCTGCAATATTTCACTTGGCCATAAACTTAATATCTCACAC  
CTAGTAGTATTCAGTGACACAGAAAGGGAAAGAGAAAGGATGAAGAACAG  
AGGAAAGAGAAATAATTTCCCAAGATACAAATTTAATATCTTTCCAAAG  
CATAAGAGCAATTAATAAATATTTCTCTGTTGTAGTTGTAGGATGGATT  
TTCTACATTATTGNTCAGACATCCTGGANATAATATCAAACCTTTGTAAAG  
AACACAAAAATTTTTATTTTAAATTAATAAACAATCCTTCTAAAGGGG  
TTTAAGAGCTTTGAACACAGGCCTTAGTAAAAGTCCCTTGGCCGCAACCA  
CCTTAAGGGCGAATTCACGACA  
>Sequence 1065  
GGTACATTGAAACAATATAGTAGTCTTCCCCTTTACAAAGCTGAATTAAA  
GTAAAGTGTGTGTTGGNGAATAATAGGGGAATGTNGGATTGGTAGCTGT  
TTAATANAAGATTTAGGATACATTATAAAATTGCTTAAGGGCCAGGCGCT  
GTGGCTTTACGCCTATAATCCCAAGCACTTTGGGAAGGCTGAGGTCCGGT  
GGATCANCCTGAGATCAGGAGTTTGAAGACCACTGTTCAACATGGTGA  
AACCCCATCTGTACCTGCCGGCGCGCTCGAAAGGG  
>Sequence 1066  
CCCTTAGCGTGGTCGCGGGCGAGGTACCCACATGATCCCAAAGAGGAGGG  
GCCCTGTATAAACAAAGAACCAACCAACATAAAGCAGTGAAGTACAGGCACC  
ATGACAACAAAAGGAGTTTAAAGTGCATCTTCAAAATAGCACACAATTTT  
CCAATTTAAATAGTTTGAATGAATCAAAGGGAAAAAGCATTAAATAGA  
TACAACCTGAATTTCTCAAAGTATATTAACACAGCCTACAAATAAATCCT  
CAAATGTACCTGCCCGGTCCGTGCTCGAAAGGG  
>Sequence 1067  
CCCTTAGCGGCCGCCCGGGCAGGTACCCTCCGTGACTTTTCAGGGTCTCC  
TGGTTGAATGAATTTGCAGAAGGATTAATAATGTGTGTTCTTATTTGTGCC  
TTTGTATTTCTCCCATTAAGTAGTGTGTTGGAGGCTTATTAGAATAAGCT  
GAGAAGGGTAATAACATAAACACATACCGTAGGCAGCCCTGACATTAAAC  
ACATNAGGTAGGAGCCTGCCATAAAGCACCGTATGTAAAGAACTAAAAAGG  
GGTGTGTTTCCATTTTCATGTGTCCAAGCCTTCTTCCATACTCTCGAG  
ATGACAAGAACACAAAAGTTTGTGAGCTTCACACCAACTAATTGACTAAA  
TCCAGAAAGTTTGAACATGCGAGAACATNTTTCTTTTGTACAAAGG  
TTATCTAATTAATGTTGGACATTTTAAAAATCCACAAAGTGTGGATAATCT  
TGTGAAGTTTCTGATTTAAACAGAATCATGGTGAAAAAGGGACCTTATTT  
TCAAGAAAAATCTTGCATTATAAAACCCTAAAAAGTTACCTTCGGGCGCGCG  
CACCACCNCCTTAAAGGGCAGAATATTTCCAAAACCACTTGGGCGGGACC  
GTTAACTAATTGGAATTTCCAAACTCTGGGGTACCCCAAGCGCTTTGGCG  
GTGAATTCAATGAGGCATTAAGGCCGGTTTCCCTTGTGTTGAAAAATGGG  
TATTCGCGCTCCCCAAATTTTCCCAACAATAACATTTCTGAAGCCCGGT  
AAAGCCTTTAAAGAGTGTAAAAAGCCCTGGGGTGTCCCTATTTGGGGTGG  
ACCTTAACCTTTCCACTTTATGGCGGGTGTGGGCTCCTTTGTACGGGTTA  
ATATTAGAAAAATTTGGGGGCCGTAATCTAGGGGATCCCCCT  
>Sequence 1068  
GGTACTATATTAGTGTAGCAATTTTCCAAAAGCCATTATCTTAGAGGGC  
TAAATGATTTTACCTTATCAATTCCCTGTGAAAAAATATCTCTAAAGAG  
GTTTTCTGCTGGAAAAATTTGTTGCTGTCACATTGATATGCCAACAAAAG  
CTAAGCAGGGAAAGTCAGGCCAAGAAATATCTCCCTGCAAGAGAAGGCATC  
GCACATGTATCTCTCATGCTATTTAAAAATTGCATTCTGCAACATAGAAA  
GGATAGGCCATGCTGCAGAAGCCAGGTCCAGGAAAACTGCTTTCTTTGGC  
CTTTACACANTCCTTTTGGAGAGATGCTGGTGAAAGCAGCAACTACCATC  
TGCTTCTGTTGACTTATTGTCANCAGGTGGAGGGAGGAAGGAGGGCATC

Table 2

GCAGACATCATTCTATTATCTCAACCTTGCTTTCTCGGATCCAAAGCCAA  
GAAGTTGCTGTTCCATGCCCTTAGAGCTCTAATTGGCACCTTTTCCTGA  
AATGAAAGCTTGAAAGGGCTTTTGGCTTTGGTGAAACCGGTTCTGGGCC  
GGGCAAATCTGGTGGTTTCGCGTCTGTCAGTGGGTCCTAATAACTGTTA  
TAAGTGTGGTTCTTGGGAACATTTGTAAAAATATTTTCTATTGGTCACACA  
CCTTTTCTGTTTAGACATTTATTTTAAACACAGACAAATGCTTAAGTGT  
CCCGCCCCAGGGTTCTTAACTT

>Sequence 1069

GGTACCCTGCTTTTGATTATTTCCGAATCCAGTGGGTAGAGAAGGTAAAGG  
CAAGGGCTCACTGGATATTTTAAATTGTAGGGATGTCCTTTGCTCTGGG  
TCAATTTTAGGATCAAATATAAAAGCACCTATAGCTCAGAGTATCTTCTA  
ACATAAAACTTCTGAGATACCAGAAATTTTCCAAAACATGGTATAAACAG  
TATGAACACCTGGGTAGATAAAAAGCTTTCTCTAAATCTTAAAGTGCTCAA  
ATATCATGACCTGATTTTGAATTTAGAAATCAGATATTTTCTATTCC  
ATATCTTAAACTTTCATGTTAAATTTCTAGTTCTGACAATGTAGGGTTCTA  
TTTTTTTCAGGTGATTGTTGGGAGCGTATAGAAGCATATATAAATATGGA  
ATATGTGTTTCTTTTCCCTTCTGAAAGAAAGTCAAGCCTCTAATCAA  
ATAGATTGATGCTTCAGAACTTAACAGAATATTATCTGCAATTTGGCAT  
AAATGCATNTTCTTGGGGAAGTTTCCATGGTCAAAATTTATAGTCATTG  
CAAAACAGAAAAGTTTGACAACTGGAAATGCAGACNCTTTTGCTTGATTN  
TGTAAGACAGGA

>Sequence 1070

CCCTTTGAGCGGCCGCCCGGGCAGGTACATTATATTAATGAAATTTATCT  
AGTCCTTGCAAACCTGTGCCTATTGATTTTCATTAGTGTAAGTAAAGAG  
AGAAACTTCACACTGACATTTATAATTGTAAGAACTAAGAACCAACCATC  
AGCTTTTCTATGCCAATCCATGCCCTTCAGGAAGTTCTTGAGGCCTTGAG  
GTTGCTAGTTTAGTAAATTGCTTACTGGGACATTAAGCAGCTACATTTT  
GGAAAGAGGGAGAAATTAAGTTTGTGTTGAATTTATTATCACTAAGT  
AGTTTAAAGCTCTCTTAGATCCCAAAGAGGAAAAATTCAGGTCCATTA  
ATCAAAAGGCTGAAACTTAACTTTAGNTAAAGTTATTTTGATTAAATAA  
CAAACCTCCGGTTTCTTCCACAGCCGTTTATCCGAAACTATC

>Sequence 1071

CCCTTAGCGTGGCCGCGGCCGAGGTACCAAAACTGAAAAAAGATTGTGTA  
TCCAAACATTATTTACATAAAATGTATTTTGATAAAGTAAATTCCCAA  
CCATGGTGCTCAGAGGTTGTAACAGTCCATGTAAGTTGAAGAAAAAGAGT  
TATCAATCAATACGTGACTATCAATCATTTATTTAATCATTATTTAGTTT  
TCACATATCTATGAATTCAGTAGAAGAACCAGCACTATAAAGGTGGCCA  
TTCCTATACCTGCCATCGATTACATTATTTTACTTAAATAAAGCTTATAT  
TACATCTGACAACATTCCCTGTTAAAAAATAAATTCCTAAACAGGGCAAT  
ATTCCCATCTTTAGAAATATGCCAAAAAATAATTTTAAACTCATTT  
GGAAACATTCCAGGAACCTATTCCAGAATCTATTTATTTTGAAGAAACAA  
ATTTGTTCAAAATAATCCTTTGGCTTGGTTGGAATAAAAAATTAATCAA  
ATTTTCAAACCAGACTGGTTTAATTAATAAATAAGGCCCAAAACCCCTA  
ATTTATTTACAGGGGGCCGGTAAGCCAATT

>Sequence 1072

GGTACTTTTTTTTTTTTTTTTTTTTGGAGACGGAGTTTCACTCTTGTTC  
CCAGGCTGGAGTGCAATGGCGCAATCTCAGCTCACCACAACCTCTGCCTC  
CCGGGTTCAAGAGATTCTCCCGCTCAGCCTCTTGAGTAGCTGGGATTAC  
AGGCATGTGCCACCATGCCTGGTTAATTTTGTATTTTATGATAGAGACAGG  
GTTTCTCCATGTTGGTCCGGCTGGTCTCGAACTCCCGACTTCAGGTGATC  
CTCCTGCCTTGGCCTCCAAAAGTGTGAGGATTACAGGCGTGAGCCACCAC  
GCCCTGCTTAAGTTTAAATAAGATCTCTTGGCAACTTTTACGACTGGCA  
ACTTAGGTCTCAAAACACAGAAAAAGCTTGTCTTAAAGTATATTGTCTT  
GAAAAGTTAATACACTCTCTAAATGCTCCATTTAAATGATTTACTTTAT  
AAATGCATGCACTGAGAGAAAAAGATTTTGAATGATATACANCCACATGT  
TAAATTAAGTGTGATTGTTTCTAAGTATTGGCACTATGGTCAATTTTCTT

Table 2

TTTCTTGTTTATGCTTTTCTGAAGTTTTCAACCCCCATAATAAAGATGTA  
TCTCTTCT  
>Sequence 1073  
GGTACCTATTGTATCAGAAAAATGCTAATTAATTTTTTGACATAAAAGGG  
CATTTTAAACTTGGTTTTATTCTTTGTGATAAATATGGATGATGAATGGT  
AATGTTAAACAGAATTCAAAAGTTATCAGTTTGGCTAGCCAGACACAGTA  
GTATATGCCTATAGTCCTAGCTACCCAGGAGGCTGAGGCCAGAGGAGCCC  
GGAAGTTCACGTTTAGCCTGGGCAGCATAGTGAGACACTGTCTTTTATAA  
AAACAACAGCAAAAAATGATCAGTTTGGGATAGTAAGACAAATGGCTTTCT  
TTTGTTAGGAATTTCTCTATTTAAAGGACTTTTAGGCCTAGAGTGGTGGC  
TTACGCTTGTAATCCCAGCACTTTGGGAGGCCAATTGCAGGAGAATCACT  
TGAGGCCAGGAGTTGGGGACCAACCTGGGCAAAGTAGGGAGACCCTGTCT  
CTTCAAAAAAATACAAAAATTAGCCCAGTGAGGTGGTGTCTGCTGGGGT  
CCTAGCCACTGGGAAGCTGGGGTGGGAGAAATACTTGGGCCCAGGAATTT  
GAGGTTGTAGTGAGCTATGATCCCGGTACAGATTATAGACCCTGTCTCTA  
AAAAATTAAAAATAAACCTTTTTTAAAGGACTTTAAAGTTGGATTTTTTT  
CTTGTTAAGTTATTATCATTCTTATGTCCTGCTTTGACCTGCCCCGCCGG  
CGTTAAG  
>Sequence 1074  
GGTACTGGGTCACTCTGCCCCAGCTCTCCAAAGGCATCAAGATCCGACTG  
CTAGGAGCCCCGGCTTCTCCCTGACCTGCCCGTCTCCTACACCCTCTGG  
TCCTGCTCCACACTGGTCTAATAACTGGTGTTCACATTCTCTAACGTG  
CACAACACAGTCCTGCCCCGTGCTTTTACCTCCTGTCCATTCTCTTA  
TAACGCTCTTCCCCAAATCGCTTGCCCATGGCTTGTTTGCTCATCTCAAG  
GTAGAAAACAACTGTCGCTCAATCAGCTAGAGCCCTCCCACTATGCTCCC  
GCGTACCTGCCCCGGCGCGCGGTCAAAGGG  
>Sequence 1075  
ACTCTTCAAAGAGGATAAACTTAAAGAAAAATGACTAGATACACATCAAAT  
TAAGCTGCTGAAAACCAAAAAACAAAGAAAAAATTTTTGAAAGCAGCTAGA  
AAAAAATTACACACCACACAGAGGGGAATAAGGTTTACATTACAAAGATT  
TTTACCAGAAATCAGAGAAGTGAAAAGACAGCTAAATGGCATCATTGAG  
GTGCTCAAGGAAGCAAGCATCTACTCGGAATTATATATCCACCTAAAAATA  
TCCTTTAGGAATGAAAGTAAAAATAATACATTCTCAAAGAAAAACAAAGA  
GAATGTATCCCCAGCAGACTGATCTGCTAGAAAAGCTAAGGTCAACATTA  
GGCTGAAAGGAAATGCTGCATCTTCAGGAATGAAGAAAAGAGCAATAGAAA  
CAATAAATATATAGGAAAAACAAAAATACTAGATTTTCTCTAAGTTCT  
ATAAAGTACC  
>Sequence 1076  
ACTTCACTGATTTATGGCAAGTCAGCCAATCCATCAGTGCTCAAAGCTCC  
TTGTATTGTCAGGAATGTCTAACATTATTTGTCACTCATTGAGAATTAAA  
CTGCCAACTAGTAGCATTGTGTTTGTGTCTGATAGATTCTTCATGCAGAA  
AGAATAAGTAAAAATGAGATGGGACACAAATCTGAGTATAGCATTGTCATT  
ACTTTTGTCTGCACAGATTACTTGCAAGAAATATTCTAGTCTGGGGCATA  
ACAGAATCCACAAATCCAGATTTAAGAAATAGGTCTATATAAAGCTTAT  
TTAATATTTGGTATATTTTTAGTTACTCATTGCGTGTCTTTATAATGC  
AAAAGCATTTTTTGCGAATCTTGTTTTCTACTTAAATGAAGAAAAATCT  
TAACATACAGTGGTGAATAGGAACACCACACAACCCTATATATTGATTAA  
AGTAGTTTATTAGGTAAGCTTACAGTNGAAGTAGCTTCCGAAAAAAAAT  
ATTAAGAAAAACCATTAGAGAAAAGGTATTTACTATTTCTTAAGGGGGAAA  
AGGTCTATTATGAATCATAGGTGTTCTATTTATAAAGGTATGTCCTTC  
AGAACCTGGAGAAGGGCTTTACAAAAATACCTTGGAATTTCCAGGGGA  
ACAAATTGACTCAAAAAACAAGAGCTGGGTTAAAACCCCTGGAAAAAGGCC  
TTATAGCCAAAT  
>Sequence 1077  
GGTACAGAGTAACCATGACTTACTAGGTGTTATGATGAAGGTGTATGTGT  
GTGTATATGTGTGCATGCATGTNATAAGTGTGTGCATTTGCACACATAAG

Table 2

AGTTTTAAGCTGCTCCTGTCAATTTATTGATGGTCAAAGGTTTCTTTTGGC  
TATTGCTGGACTCTTAAGATTGTCTTGTAATTGTCTTTTTGTGTGTGTTG  
AAAATTAAGGGTGTATATTAAGGTAGTTTTTACCCAGATCTTATATGTG  
TGATAGCTCACGTCTGTAATCAGAAACCTACTGTTAATGGCCACCCAAT  
TGCCATTAGCTTCCTAGAGGGTGATTTAATAAACTATCTTCTTTAAAACT  
CATTTAAATTAAGAGACATGTTTGCATACAATGGATTAATGACGTTTCA  
CACTAACCCACAAAAGTCTGCTGCACTTTCTTTGTAGGCCAACATTCA  
TTTCATATGCATTGAATATTATTGGTGAACCTGCATTAATTACATCGTGC  
ATATATGGACATACAATGTCATCTGCAGAAATTAAGATTTTATTGTTA  
ATTTTTATAGGGACTGGGAAATTGAGAATTTAAATTAGCATGCTTCATT  
ATAATAATATTTCTAGTGGTTCATTAACCCCTAAAAATGTGATTAGATCAG  
GATTAATTTGGGAAGAAAATTTTCTAAAAATGGGCCTGGCCCGGCGGGC  
GTTTCAAGGGCAAA

>Sequence 159

TGGCTATTGAGACCTCACCGCGGTGGGGGCGCCCGGGCAGGTACACAGG  
ACCAATGCTGCCCATCCACATGGAATTTACAAACATTCTACAGCGCAAAA  
GGCTCCAGACTTTGATGTCAAGTGGATGATTCTGTGGAGAGGGCTGTAAAC  
ATGCTCGTGGAGACGGGGGAGCTGGAGAATACTTACATCATTTACACCGC  
CGACCATGTTTACCATATTGGGCAGTTTGGACTGGTCAAGGGGAAATCCA  
TGCCATATGACTTTGATATTCGTGTGCCTTTTTTTATTCGTGGTCCAAGT  
GTAGAACCAGGATCAATAGTCCACAGATCGTTCTCAACATTGACTTGGC  
CCCCACGATCCTGGATATTGCTGGGCTCGACACACCTCCTGATGTGGACG  
GCAAGTCTGTCTCAAACCTTCTGGACCCAGAAAAGCCAGGTAACAGGTTT  
CGAACAAACAAGAAGGCCAAAATTTGGCGTGATACATTCCTAGTGGGAAG  
AGGCNANATTCTACGTAAGAAGGAAGGATCCAGCAAGAATATCCAACAGT  
CAAAATCACTTTGCCCAATATGAACGGGGTCAAGAACTATGCCAGCAGGCC  
AGGTACCCTTGGCCGTCTAGACTGGTGGATTCCCGGCTTGAAGAATTCC  
ATTTTAAGCTATTATTACGTCAACTTGAAGGGG

>Sequence 160

TGGATGATGNATTGGTAGGCCTCATCGCGGTGGCGGCCCGCCGGCAGGT  
ACACAGGACCAATGCTGCCCATCCACATGGAATTTACAAACATTCTACAG  
CGCAAAAGGCTCCAGACTTTGATGTCAAGTGGATGATTCTGTGGAGAGGCT  
GTATAACATGCTCGTGGAGACGGGGGAGCTGGAGAATACTTACATCATTT  
ACACCGCCGACCATGGTTACCATATTGGGCAGTTTGGACTGGTCAAGGGG  
AAATCATGCCATATGACTTTGATATTCGTGTGCCTTTTTTTATTCGTGG  
TCCAAGTGTAGAACCAGGATCAATAGTCCACAGATCGTTCTCAACATTG  
ACTTGGCCCCCAGATCCTGGATATTGCTGGGCTCGACACACCTCCTGAT  
GTGGACGGCAAGTCTGTCTCAAACCTTCTGGACCCAGAAAAGCCAGGTAA  
CAGGTTTTCGAACAAACAAGAAGGCCAAAATTTGGCGTGATACATTCCTAG  
TGGAAAGAGGCAAAATTTCTACGTAAGAAGGAAGAATCCAGGCAGAATATC  
CAACAAGTCAATCACTTGCCCAAATTGAACGGGTCAAGAACTATGCCAGC  
AGCCAGGTCCTCGGCCGCTAGAACTAGTGA

>Sequence 161

GATAACGTTGAACCTCATCCGAGGCCGCGCCGAGGTACCATCCTATTAATA  
CTAACTTCTGCTTCTACATACTGTAGACCTTTCTGGATGATAGAAATCAA  
TGCAGCGGGTGGGACGAGGGCACCATTATATTGGACTGACTGATATGGC  
TTTCTATACCAAAGGTAAATGCTGAATGAGAAAATCCTGACTCTTGCAAG  
TATCTATATACCAAGAAGTTGACCTCATCACTGCTTATACTCATCTTTAT  
TCCCACTTAAACCATGAGGTACACCACAGGATATAACCCATTGGCAGTG  
CATTGATGTGGGGATGTGCAACTGAATATCCGGGCACCGCCAATCACAAG  
TTGCTGTTGTTGATGTGGAAACGGTGGCCTTCAACGCCGCTTCCCCCTT  
CCGGGAATCCCCGCGTCTCCCCCGGGGTINNTATTTCTCTAACTACTCA  
GTCTATTCTCACTAAAATATTCTTTATAATTTAACTTTATACGAATTTA  
ATAGTTATTCACTATTATTTATTTTATATATTATTACACAATTCTATT  
TTTTTTAAATCAATACTTAACACTTTTCTTTAATATTTTATTACAATATA  
CCAATAGATTATAACATTTTACTTATTACATCTTTCTAC

Table 2

## &gt;Sequence 162

GGCGGCCGAGGTACCTGGCCTGCTGGCATAGTTCTTTGACCCGTTTCATAT  
TTGGGCAAGTGATTTGACTGTTGGATATTCTTGCTGGATTCTCCTTCTT  
ACGTAGAAATTTGCCTCTTTCCACTAGGAATGTATCACGCCAAATTTTGG  
CCTTCTTGTGTTTTCGAAAACCTGTTACCTGGCTTTTCTGGGTCCAGAAGT  
TTGAGGACAGACTTGCCGTCCACATCAGGAGGTGTGTCGAGCCCAGCAAT  
ATCCAGGATCGTGGGGGCCAAGTCAATGTTGAGAACGATCTGTGGGACTA  
TTGATCCTGGTTCTACACTTGGACCACGAATAAAAAAAGGCACACGAATA  
TCAAAGTCATATGGCATGGATTTCCCCTTGACCAGTCCAAACTGCCCAAT  
ATGGTAACCATGGTCCGCGGTGTAAATGATGTAAGGATTCTNCAGCTTCC  
CCGTCTCCACGAGCCTTGTTTACAGGCTTTCCACAGAATTAT

## &gt;Sequence 163

TTATTATCGATGCGCACCCACGCGTCCGGGTGGCTCTATGTAGTTCTAATT  
TGCATTTCTCTAATGACTAACGATGTTAAACATATTTTTATGTACTTGTT  
TCATGTACTTGTTGATATGTCTATTCAATTCCTTTCACCATTTTTATGGA  
GCTGTTTTTTTATTATTGAGTTGTAGGATTTCTTTATATATGCTGCATAC  
CAGGCCCTTGTATATACATGCTTTGCAATGTACATTGTCTTAAAATCTG  
TGGCTTGCCTGTTCAATTCATTAGTGGTGTGTTTGTAAAGCAGTTTTAAT  
TTTGATGAAGTGAACCTTATTCATTTTTATTATGGTTATTGCTTTATGT  
TTCAGGTCCCAAATTTTGCCTTCTCACAATCACAACATTATCCTATGT  
TTTCCTTCAAAAATTATATGGTTTTATGTATTTTCAATCTCAAAATATTC  
TCTAATTTTTTTGCTGATTTATTTACTAAAGAAATTTGAGGGATTTGCTA  
TAATGTTAGGGATTTTTCTAGATGCCACT

## &gt;Sequence 164

TCGATGACTCACCGCGGTGGCGGCCGCCGGGGCAGGTTATTTAATTTCT  
TAGTGTCTCAATTTCCCTCTCTATAAAACAGAGATAATAGTATTTAGCCC  
AGAGGGTGTGGTGAAGTGTGAATCATTTCTCCATGTAAACACATAGGA  
CAGGCTGGGCATGGTGGTGGGCACCTGTAATCCAGTTACTTGAGAGGCT  
GAGACAGGAGAATCGCTTGAACCCGGGAGACGGAGGTTGCAGTGAGCCGA  
GATAGTGCCACTGCACTCCAGCCTGAGTGACAAGAGTGAGAGTCCATCTC  
AAAAAAAAAAAAAAAAAAAAAGTACCT

## &gt;Sequence 1078

CATGCGCTGTATATAAAATCTTCGTCTTGTGTATATATATATTTAAAAA  
TGTCGATGACGTTTAAACAGATAAATNNNTNANCNCNGNNCGTNNNTNNNN  
NNAAGTGNGGNGNGATTGTATACGACTATATAGGCGAATGGGCCTCTC  
AAGCATTCNANCNGNCGCCANTGTGATAATTCTCTCTATAATCGGCCG  
CCCGGGCAGGTACAGACTTAGTACCTTTGCTTTTATATATTGTGTTTTT  
GCATAGATATGAATAGTTTCACTAATTCATTCAATGGTACTGTAAACATT  
CTTAAACTTTGTTTTATGGGATTATCAGAGTAACAAAATAATGTAGTCC  
CTTTATGGACTATAAGTAAC

## &gt;Sequence 1079

GGTACAGCTCACATTCATGGGGAGGAAAAATCAGGGCCTGTCTTTAGATAG  
GAGATGTATCAAAGAATTTGTGGACATATGTTAAATCACAGCACTACTC  
TTGATGT

## &gt;Sequence 1080

CGATATGGGAGTCGACCCACGCGTCCGCTGCCATCGCCCAATGGGCTCAT  
AAACAAAGTGCCATGGTGGCAGGGATAGACTTTCTCAGCAACATGGACT  
TTCATCACCAAGGCAGACCTGGCTACAGCCACTGCTGAGTGCCCCATT  
TCCAGCAGCAGTGCCCAACACTGAGCCCTTGATATGGATCATTCCTTGGG  
TGATCACACAGCTACATGGTGGCAGATTGATTATATTGGACTTCTTCCAT  
CATGGAAAGGGCAGAAGTTTCTCCTCCCTGGAATGGACACTCCAGATATG  
AGTTTGCCTATCCTACACGCAATGCTTCTGCTAAGACTACCATCTGTGGA  
TTCACGGAATGCCTTATCCACCGTCATGGTATTCCACACAGCATTGCCTC  
TGACCAAGGCACTCACTTTACAGCTAGTGTGACAGTGGGCTCATGCTCTT  
GGAATTCATGATCCCACCATGTTCCCACCATCCCGAAGCAACTGGATT  
GATAGAATGGTGAAATGGCCTTTTGTAGTCACAATAACAATGCCAACTAA



Table 2

GTGATAATACTCTGCGGGGCTTGGGCAAATTTTTTCAGAAAGCCATTGTT  
GCTCTGAATCAGCATCCAATATATGGCATTGGTATTCCATACCCAGGATT  
ACAAAGTCCAGGAAATAATGGGGTGGAAATTGGAATGGATTACTTAACATTA  
CCCCTAATGATCCATAGAAAATTTGGCTACTGTTCCACACATTTCATTCT  
GGTGGTCTAAAGGTTAGATCCCAAGGAGAAAGTTCCACAGAA  
>Sequence 1081  
GGTACACGATGTGGCTGACATTTGGCTGGAGTCTGCTAAGATGTCTTCTT  
ATGCTGGATGGACGCAGACCTGTAACACCTCTGTTTTTCATCTTCTCCAC  
CATATTTTTTCATCAGCCGCTCATTTGTTTTCTTTCTGGATTTTATATG  
GCACGCTGATCTTGCTATGTATCACCTCGAGCCTTTCTTTTCATACATC  
TTCTCAACCTACAGCTCATGATCTTGCAAGTCTTTCACCTGTACTGGGG  
TTATTACATCTTGAAGATGCTCAACAGATGTATATTCATGAAGAGCATCC  
AGGATGTGAAGAGTGTAGTACTAGGATTATGATAAAGAAGATGAAAAGGGA  
GATGAAGAGGCTACCCAAGGCAAAGAAATGGATTGTTTAAAGAACGGCCT  
TCGGGCTTGAGAGGCACCTCATTTCCAATGGGCAGCATTGGCCTTAACTG  
GAAGCCTACAGGAACCTCTTGGCACAGTTGCTTAAAGTAACTTGCCCCG  
CCGGCCGATTGAAAGGGGGA  
>Sequence 165  
TCTTCCATACTTCGTAACCTCTATACATTTACCATTGTTATCATCTACTAT  
AATTATCCATCTTATACTTCCGAACCTCGTTTAAATAGTATTTATCTAATTA  
TTATATAATTTCTATTTATAAATTAATTTCTNACTGCNAANAGCCNTTGTG  
TTTTTATCCGCTGACGAACGCGCAGGNACCGGCATCAGCATTAGTAATC  
AACCTGTAAATCCAAGGTCTTTAGAAAACTTGAAATTATTCCTGCAAGC  
CAATTTTGTCCACGTGTTGAGATCATTGCTACAATGAAAAAGAAGGGTGA  
GAAGAGATGTCTGAATCCAGAATCGAAGGCCGTCAAGAATTTACTGAAAG  
CAGTTAGCAAGGAAAGGTCTAAAAGATCTCCTTAAACCAGAGGGGAGCA  
AAATCGATGTCAGTGTCTCAAGGATGGACCACACAGAGGCTGCCTCTCCC  
ATCACTTCCCTACATGGAGTATATGTCAAGCCATAATTGTTCTTAGTTTG  
CAGTTACCCCTAAAGGTGACCAATGATGGTCACCCAATCAGCTGCTACTA  
CTTCTGTAGAAGGTTAAATGTCATAATTCTTAGCTTTTCAGGAATAACT  
TTACCCTGGCACTATTAATGAAAGCTCTACCGGGGTGCCTATGTCTTAAG  
GGTGGTTTGGACCTGCTTCAAAATTTTCTTACCTTTCCCATCTTCCA  
GGGGTCTTGGGCGGTCTGAAC TAGTGGGATCCCCGGCCTGCAGGAATCC  
ATATCAACTTATATGTCCCGCGCCCTCAGGGGGGGCT  
>Sequence 166  
TTCTATTATTCGTTGATCGACTATTCCTTCTTCGGTNTATTGATTGAACA  
GTATTCACTTCTTATTACTTCTTTTTATACATCCATTATCGTCTGTTT  
ACGATGTTTATCTATTTATATGTTTCTTACATTATGTTTATTACNNNAAG  
GGTCGTTGCTTTGTAGCGNCTCTCCNAGTGGCGGCCGNGCGGGCAGGTA  
CTTGCTCAGCCTTGCCAGGCCCTCTGATGAGCTCTCTAATCAGCAGGAC  
CAAGGTGTGAAGTGGGAATGAACATGGATCCATCCCATTGGATGGAGAAG  
AAAGGTGGACAGCCTGTTCTGCTCTCATGTGAGCCTAGGGCTGGGAACAG  
TTTGTGAGGACTTATCTGTTGTACCT  
>Sequence 167  
CCGCCCCGAAGTACGTNTCCGCTAATATTGATGGCAATTTCTACGTTATT  
CTCAACTCGTTTTTCATGTTACTTATATGACATCTACATCATCAGTTTATA  
GTACATAATATNTNTNNAATGTATGTGCTGGTAGCGGGCTGNCGNCCGG  
GCAGGTACGCGGGATGGCAGTGCAGCGCAAGTAGGTCTACAAGACGCTA  
CTTCCCCTATCATAGAAGAGCTTATCACCTTTTCATGATCACGCCCTCGGA  
ATCATTTTCTTATCTGCTTCTAGTCTGTATGCCCTTTTCTTAACACT  
CACAACAAAACCTACTAATACTAACAATCTCAGACGCTCAGGAAATAGAAA  
CCGTTTGAACATCTGCCCCCATCATCTAGTCTCATTTGGCCTCCCA  
TCCCTACGCATCCTTTACATAACAGACGAGGTCAACGATCCCTCCCTTAC  
CATCAAAATCAATTGGCCACCAATGATACTGAACCTACGAGTACCT  
>Sequence 168  
CTTGTCTTTTCACTTACACATTTTTTCCAACCTCTATCTTAATATCACAT

Table 2

TCTCTATATTTTCTTTTTTAATATAAAATATAATATAGTCTATCATATTGT  
ATTAATNNNNNTGTTAAGTGTGCTGTAGCGGGCCGCCGACGCTGGCAT  
TGCATCTTCAGGAGACGCTCGTAGCCCTCGCGCTTTTCTAGGACAGTTC  
GCGGAAGAAGTGGCTCACGCCCTCCAGAGCCACATCATCGCGGTGAAAAT  
AGAAGCCCAGAGAGAGGTAGGTGTAGGAGGCCTGCAGGTACCT

>Sequence 169

CCGTGTGCCCATTTGANANTCTGNCTTACCGNGNGCCGGCCGCCGGGCA  
GGTACTTCCACTATTATTGAATGTATTCTGTATTATAAATTGTATATTGA  
TTGCCTATCTCCCTCAACTGCATTATACATTTTCATGGGTGAGCCAGTG  
TCTTTTCACTCTATTTCAGTGCCCTGCACATTTTCTGGCACATAGTAAG  
CATNCCCATGAGTNATCTGATGNAATAAATGTANTTTCCCTAAATTCAGG  
TTCAGTATNCCTTAATCTGNAAAATACTAAAAATCCGAAATGCTCATAAAA  
TTCAAAGCTTTTTTGAGGACCTGACCTCGTGCCCTCAAAGGAAATGCTCAT  
TNGGAGCATTTTGGACCTTCAGAATTTTCAAGATTANNGGGATATTCATA  
CCCGTAAGAAATAAGTGCTCAATATTTCCCAAAATNTNNCAAAAAAGTCT  
TTGAAATCCCCAAAAACAACCTTTTCTGGTCCCAAGGTATTTTTTGAAAT  
AAGGGGATTACCTCANACNNCTTGTACCGTNAAAAATACCCATGCANNNT  
ACTNNTTCGATTAGGCACCCATGTGAAAGGGGTATCTTTCTCTTANNA  
TTGANACCCTCATTGGGNNTTTCGTTCTTCAAGCCAAAACTTGACCCTGG  
GGCCCCACTTTCAACATGNNGCTTTTAATTCGGTGCCTNGGATGTAA  
ATGGCCATGGTTCCTCTTTTTTACCACATAAATTTCAATGGCCCCATCA  
AGATTGAATATTCACATTTTCGACCATAACACTGGCCATTCAAGGTCCCTT  
CAACAAGCCCACTCATAANGTTTTCTCTCTCTCCATCCAATTTTTGG  
TTCCTTATGAAAAATTTCTACCTTTGGCTTTCCCCAGGAAACCTTTAAGT  
AGGTTTCTCGGTCAAGTCCCGCAACACCACGCAACGCGGGGTCTCCGC  
GTAACCTTCGGCCGGTTCTAGACCTAGTGGGATCCCCCGGGCCTGGAGGA  
AATTCGAATTCGAAGCTTATCGATTCCG

>Sequence 170

TGTGTCGATCGTCAACCGGTGGCGGCCGAGGTACTTAGCTGTGTTTTTA  
TTCAAAGTCTACATTTTATGTAGTGGTTAATGTTTGTCTGTTCAATAGGAT  
GGTTTCACAGTTACCATACAAATGTAGAAGCAACAGGTCCAAAAAGTAGG  
GCATGATTTTCTCCTATGTAATCCAGGGAGAAAAACAAGCCATGACCATTGT  
TGGTTGGGAGACTGAAGGTGATTGAAGGTTCAACCATCATCCTCACCAACT  
TTTGGGCCATAATTCACCCAACCTTTGGTGGAGCCTGAAAAAATCTGG  
GCAGAATGTAGGACTTCTTTATTTTGTTTAAAGGGGTAACACAGAGTGCC  
CTTATGAAGGAGTTGGAGATCCTGCAAGGAAGAGAAGGAGTGAAGGAGAG  
ATCAAGAGAGAGAAAAACAATGAGGAACATTTTCAATTTGACCCAACATCCTT  
AGGAGCATAAATGTTGACACTAAGTTATCCCTTTTGTGCTAAAAATGGACA  
GTATTGGCAAAATGATACCACAACTTCTTATTCTCTGGCTCTATATTGCT  
TTGGAACACTTAAACATCANATGGAGTTAAATACATATTTGAAATTTAG  
GTTAGGAAATATTGGTGAGGAGGCCTTA

>Sequence 171

TGTTGTACTTATCGGGGGCGGCCGCCCGGAGCGGCGCGGAGCATGATGGA  
AGTCGTAGTAGGAAATGGCGTCTGTGCATTGAGGGGCATCCCTCCTAGAA  
CCTCCAGGAAAAAGCTCGCGGAAGACGAGGTTCTGCGGAGAGAGAGGCTCC  
AAGCAGTCTGGGAAGTGTAGTCCAGTTGGCTTAGCAGTAGTTTCGTTGGG  
GGGGAGCCGAGGTTCCGGCAAGGGGCTAGGCCGGCTTGAAAAGAGATTAT  
GACTGTACCTCGGCCGTCGAGCGGCCGCCCGGGCAGGTACAACITTTATA  
CAACTCAGGAGATTAAAAAATACTCCACAAGAAGAAGCAACTCAGCAG  
GCCCTGGCATTAAAAACATTTCCAGAATAAACAGATATGCATTGCATTAA  
AGGTAATTTTCAAAATATTTAAGTTACACCAAGATTTCCCTCCAATATGTG  
CCTTTCTCAAACCAATGCAACTAATTCATTGCTAATACTGGGGCATGAAT  
TTTTGGCAAAATGTTTATGGTTTTACTTTCTTCAATTAATCAAAAAATTTT  
TAAAGTGCTACCAAGCAGCAAAACATGTGCGATCAGTTCTCTGCTCATGG  
CAGAAGTGCCCACTGTGAAATCGCAAAAGGTAT

>Sequence 172

Table 2

GACGATGCATTACCGGGCGGGCGGGGTACAGATTTAAGGTTGATGGA  
CTCAGGGTAAGGATAGCTACAGCTGTGTGGGGCTGAAGGTCTGTGGCACT  
GAGCTACTGGGAAGGAGGGCTCTGTTTTTCATTGTGACACACTGAGTTAA  
TAAAGCACTTACTGAGGGAGCCAGAGCCCAAACTCTAAATGTGCTGTAGA  
AAAAGGGCCAAGTCATTGACTGCACCACTCCTTCAGCCAGAGGTAGAAAG  
GATTTACTCTTCAGCCATCTGGTAGAGCCCCAAGAACAAGTTACATGTGG  
ACAAAGGGAGGGAGAGGTATCATGGTGATTAATAAATTCAAACAAAGCTG  
AATGATAAGACCCAGGATGGAATACAGTCTGAGAAAGGCCTGGGCAAAG  
GGAGGCAGAGGGACTGAAGGAAGCAGGTCAAGGAAGATACACCC

>Sequence 173

AGAATGACCCCTTACGCGTGGCGGGCCGAGTACGCGGGATAGGTGGAAAAA  
AACACTGCCATTACACAAGTCAAGGAACCCAGGGCCAGCTGGAAGTGTGGA  
GCACACATGCTGTGGAGCACACATGCTGTGGAGATTGCAGTGTGTCTGAG  
GTTTGTGTAGTAGTGGAAGATTTTAGGTATGTAGAGCAAGTTGAAATGGA  
TTGAGACTGCATGGGGGCATAAATGAGAAATTGCCTGTAGCATCTAGTCT  
ACTTGAAGGAAGTGGAGACATAAGGAGAGACAAAAACAGGTTTGTGCCAT  
AAAGTATTTTTTCAAAGACACCAAGATGTGGGTAAATGAAAATTATTAGT  
TCACTTCCCTGCTGGCATGAAACTTTGCCTTAAGAAGGGTGGCTGGAATT  
CCAAGGTTTGGTAAAGGGCAATTTTGGGTAAAGGACTGGCTTTTTTTGAAA  
TGCCTTATG

>Sequence 174

GTTTGATTGCGGTGGCCGAGCGGCCGCGGGCAGGTACCACTAGGGTGT  
TGTTAAAGGACTTGATAACCAGCTTGAAGAGGTTCCCTACTGACCAGAAAT  
GGAATGAAATTTAAGCATCAATAAGGGTAATAACTGCAAGAGACTGACAT  
CCACTATGGTTTAAATCCATGAGGTCACAATGATACTTAATTTTTTCATTA  
TTCTGAAAACCAGTAAATAAAGGCTAAGATTCAACAAGCATTTATCCAGC  
CTTTCCTCAATGAAATATATCTTAAGAGAACCGAATAGTTAACATAGAGA  
CATGGCCGGGCAAGGTGGCTCTCGCCTGTAATCCCAACACTTTGGGAGGC  
CGAGGTGGGAAGATTGCTTGAGCCCAAGAGTCTAGACCAGCCTGGACAA  
CATGGTGAAACCCTGTGCCTACAAAAAAAAAAAAAAAAAAGTCC  
CACTTCCCTTTTTACTGTAGGGGGGATAACTTTTTAGGAATTAACTTTTT  
GAATATTATTTCTTGAATAAAGCATGTGTTAATGGTTAAAAANACAAAAG  
ATCAAATAATGAAATAATAAGGTCCCTCGGCCGCTTAAAAATAAGGGGA  
TCCCCGGCTGGAGGAAATTCATTCAAGTTAATGATACCGTTACCCCTAGG  
GGGGGGCCGGTACCAACTTTTTTCTTTAATGGG

>Sequence 175

AATCAAGCGCATTATTCGTATTACTGTACGTAATACATCGACGTCTGCTA  
CTCANATTTTTACTTTATTATATATGTACACTCACTCTATCTATATATAC  
TATTATTGTATCTATGAGGCTATNTATATATTTANNNNAAAGTTTGGTGTG  
CGCGACCGGCCAGGTACCAAAACCTGGGGATTAAGCTAAGAAGTCTGGTG  
GAGAGACTCTGTGGACGTAAAGAAGGGAATGAACACAGAGAACTTTCAG  
CCAGATTCCCTGAGTGTACCTGAACAAGAAAAGTCAAACTGGAGTGAAAC  
CATGCAAAATGCAGCGTGTGTGGGAAAGTCTTCCCTCCGTCATTTCCTG  
GACAGGGACATGAGAGCTCATGCTGGACACAAACGATCTGAGTGTGGTGG  
GGAATGGAGAGAGACGCCCCGAAACAGAAACAACATGGGAAAGCCTTCA  
TTTCCCCAGTAGTGGTGACGGCGCACAGTAACACCAACTCGAAAGAGA  
CCTTATGAATGCAAGGGGTGCGGGAAAGCCTTTAATTCTCCCAATTTATT  
TCAAATCCATCAAAGAAACTCACTGGAAGAGGTCCTATAAAAGGAGG  
GAAAAAGGTGAGAGCCTTTACAGTTTTTCAGTTTCTTTTGAAAACATGGAA  
AAATGCATACTTGGGAAAAAACGCTATGAATGTAAATACTGTGGAAAAACC  
TAATCGGTTATTCAGGTTATTTTAAATTCATGTTAGAAATAACACTGGG  
GAAAAACCTACCAAAGGTAACCATGGGGGAAAGGCTTTATTTTCCGAGGG  
TACCTTTGGGCACATTGAAATAAACTTAACCGGCTGGT

>Sequence 176

CCGGCCAGGACGCGGGGTGCTGTGAAGAGCTTTGCATTGTGGGAAGTCTT  
TCCTTTCTCGTTCCCCGCCATCTTAGCGGCTGCTGCTGGTTGGGGGCCG

Table 2

TCCCGCTCCTAAGGCAGGAAGATGGCGGCCGCACAGAAGACGAAAAAGTC  
GCTGGAGTCGATCAACTCTAGGCTCCAACCTCGTTATGAAAAGTGGGAAGT  
GCCT

>Sequence 177

CCCCCGGTTACCCGACGCCGTGCGGATTGGAACCTCCCCGCGGTGGCGGC  
CGAGGTACTTTTTTTTTTTTTTTTATGAATTATTTATTTCTTTCTCA  
GAAAAGGATGCGCCTCCACTTAGCAAGGCTGGGCAGGATGTGGTTCTGCA  
TCTCCCCACAGACGGGGTGGTTCTAGA

>Sequence 178

TGGGGCGTTGAGACTTCCTCGCGTGGCGGCCGCCGGGCAGGTACCAAAC  
CATTTTCACTAGTTCAGGATAGGAATATTCATCAGATTGTCTCTGTAAAA  
GTGAATCACAAAAATCCACCTGTGTAGGTGTGGGACTGGACAGCTGAGT  
GACAGGGCCCTGGGAAGAACAGAAACCACTTTTCTCTTCTCTGAAAT  
ATCAGAAGTTAAAAATCTACTCTGAGTTATATGTGCATCAATTTTAGACA  
TATTGCTGATTTTATTATGAAAAATGAAGTGCTAAAGACAAAGGATATTTT  
CATTCTCTGGACAGGCAGCCACAGACCAGCACTGCTTGACCCATGTGTA  
TACACATGTGTGCTTTGTACCT

>Sequence 179

TGGTCGTTGTTGCGGGCTGCCGAGGTACTCACAGTCACGCAAATTCAGTG  
TCTGCGTGACGGCTCTCCATTCTTCTTCTTGGCTTTACAGGTTCCAGG  
TCAAGAGCTTCACCCATAATTAAGACCTTCTGAGGATGAGCGATAGATAA  
ACACACCTCCTCTGAACCATCCTTGGGCTTCATGGGGTTGGCATTGAGGA  
TCCCTACGACAGTCCCCTGCTCCGTCTTCCAGAGCGCTTTGTGAAGTTCT  
CCAAATAAGAACAAGGACACACATTGTGTGTCAGGTCACGAAGATCATTAG  
TTTCCATATGCTGAAGGTTTTTCCACTATTCACACTCTGTGGCGTAACCT  
TCTTCAATATAACCCCAA

>Sequence 180

TGANAGATTTGCGGNGGCGGCCGAAAACTGATCAGACTGTCTCAGATCAA  
GGAAAAGATGGCCAGAGAGAAGCTGGAAGAAATAGATTGGGTGACATTTG  
GGGTTATATTGAAGAAGGTTACGCCACAGAGTGTGAATAGTGGAAGAACCC  
TTCAGCATATGGAACTGAATGATCTTCGTGACCTGACACAATGTGTGTC  
CTTGTTCTTATTTGGAGAAAGTTACAAAAGCGCTCTGGAAGACGGAGCAGG  
GGACTGTGCTAGGGATCCTCAATGCCAACCCCATGAAGCCCAAGGATGGT  
TCAGAGGAGGTGTGTTTATCTATCGATCATCCTCAGAAGGTCTTAATTAT  
GGGTGAAGCTCTTGACCTGGGAACCTGTAAAGCCAAGAAGAAGATGGAG  
AGCCGTGCAGCTCAGACTGTGAATTTGCGTGACTGTGAGTACCT

>Sequence 181

TGGATATGTGCATCGGGGGCGGCCGAGGTACTCACAGTCACGCTCCTCTG  
AACCATCCTTGGGCTTCATGGGGTTGGCATTGAGGATCCCTACGACAGTC  
CCCTGCTCCGTCTTCCAGAGCGCTTTGTGAAGTTCTCCAAATAAGAACAA  
GGACACACATTGTGTGTCAGGTCACGAAGATCATTCAGTTTCCATATGCTGA  
AGGTTTTTCCACTATTCACACTCTGTGGCGTAACCTTCTTCAATATAACC  
CCAAATGTACCCCAATCTATTTCTTCCAGCTTCTCTGGCCATCTTTTC  
CTTGATCTGAGACAGTCTGATCAGTTTT

>Sequence 182

TGGATACTGCAATCGGGGGCGGCCGAGGTACATGGATACGTTCTCTTCTG  
GGGGCGGTCTCCAGTCCTTTCTCATGAGGGAGCACACTCCTCTGCCTCAT  
TGCAGTGGCCTCAGGGATATGGAATTAAGATCCACCTGGTGTGATGAATA  
AACCAGACTCTCAGCAACGCAGGAAAAAACAACAACTGGCTGGCGAT  
CTGGAGTAAAGGATCCTCACATCCACGTGAACCAGGAAACTCTG ---

>Sequence 183

TGGATATCGAGACGTCTATCGGGTGGCGGCCGAGGTACGCGGGGAGCGGA  
AAGGGAGACTGTGGGGAAGTAGGAGCAACAGCAGGCATGGACCAAGGCAG  
TGAAGGATGTATGAAAAAGATTAGCAGTGTGAATCTTGACAACTTATAA  
ATGACTTCTCAGATAGAAAAAGAAATGGTAGAAACCAATGGAAAGAAC  
AATATACTGGATATTCAGTTGGAAAAAGTAATTGCCTATTAAAAAGTAAT

Table 2

GCAAGCAAAAGGAGGTCTCCATTAAAGAAGAATGTGCTACTCTTCATAATA  
TAATAAAAGGGCTACAACAGACCATTGAATATCAACAGAATTTGAAAGGT  
GAAAAATGAACAACTAAAAATAAGTGCTGATCTTATAAAAGAGAAGTTAAA  
GTCTCATGAACAGGAATATAAGAATAATATTGCCAACTTGTAAGTGAAA  
TGAAAAATCAAAAGAGGAGGGATATAAGAAAGAAATAAGCAAACTTTATCAG  
GACATGCAGAGAAAAAGTTGAATTAAATGAAGAAAAGCACAAGAATAAT  
AGAGAAAAAGGAGATGGAAATTCANAGTTAAATGCAAAGCTCAGAAGTCA  
AAAAAAAAAAAAAAAAATGAAATAATCAAGCTACAAGTGAANTTGATGCCA  
AACTAGCAAGAGTTCAGACTAAATCAAAATCTATCAGGATTTACTTGTTT  
>Sequence 184  
TGGATGATGCTCATCGCGGGGCGGCCGAGGTACATGGATACGTTCTCTTC  
TGGGGGCGGTCTCCAGTCCTTTCTCATGAGGGAGCACACTCCTCTGCCTC  
ATTGCAGTGGCCTCAGGGATATGGAATTAAGATCCACCTGGTGTGATGAA  
TAAACCCAGACTCTCAGCAACGCAGGAAAAAAAAACAAAACTGGCTGGCG  
ATCTGGAGTAAAGGATCCTCACATCCACGTGAACCAGGAACTCTG  
>Sequence 185  
GCNNNATGATTANTCCTTACCGGCCGCCCGGCAGGTACGCGGGGGTGTCC  
GGCGATGGGCACGGGCATTTCTTCGTTTATAGCTGTCTGTTTGCATTCTG  
ATTGGGAACACTGGGATCATTTTCATCATGCCGACAGTGGTGGTAATGGA  
TGTATCCCTTCCATGACCCGACCTGTGTCTATTGAGGGGTCCGAGGAAT  
ACCAGCGAAGCACTAAGTAATATGGATGATTATGACAAAACCTGCTTGA  
GTCTGCATTAGTTGGTGTGCAATATCGTTTCAGCAAGAATGGGGTGGTG  
CAATTCCTTGCCAGTTGTCTGGTGACAGACGGCTGTCTTGGCATTGGT  
AGAGGGTCACTGGAACATTCCTTACCCACTCAAACCTTAACGAAGTGAGAG  
CAACCGGTTTCCACTACCTTTTCTTTCCCATCTAACTTATATACCAGGC  
GCGGGCGCGAATTGGAGGGACACCGCGCCCTGTTCTTGGGAATTTCTA  
AAATCTATTATATATTCACACATTTGTAGGGGGCCATATTATAATTGTGG  
CCGCCCTGTGTGAAAAAAAAACTCCCTCGGCCTATAAAAAAGTGGGCCCC  
CCCCGGAGGGGGAATTAATAATCTAACCCCCCCCCCCCCGGGGGGCCCC  
CCCCCTTTTTTTTTTAAGAGAGGACACCGCCC  
>Sequence 186  
TGGGCCGATGGAAGCGCTCACCGCGGTGGCGGCCGAGGTACTCACAGTCA  
CGAAATTCACAGTCTGCGTGCACGGCTCTCCATTCTTCTTGGCTTT  
ACAGGTTCCAGGTCAAGAGCTTCACCCATAATTAAGACCTTCTGAGGAT  
GATCGATAGATAAAACACACCTCCTCTGAACCATCCTTGGGCTTCATGGG  
TTGGCATTGAGGATCCCTACGACAGTCCCCTGCTCCGTCTTCCAGAGCGC  
TTTGTGAACCTTCCAAATAAGAACAAGGACACACATTGTGTCAGGTCAC  
GAAGATCAATTCAGTTTCCATATGCTGAAGGTTTTTCCACTATTCACACTC  
TGTGGCGTAACCTTCTTCAATATAACCCCAAAATGTCACCCAATCTATTC  
TTCCAGCTTCTCTGGCCATCTTTTCTTGATCTGAGACAGTCTGATCA  
GTTTT  
>Sequence 187  
NGGATGATTGCACTCACCTGGTGGCGGCCGCCCGGGCAGGTACCAGAGAT  
TCCAGAGAGTGGTCTTTGGAATTTCCCAACTCCTTTGCTTCAGTGCCCTG  
ATCTCTGAACTAACAACCCAGAAAGAAAGTGGCAGCATGGACTTATCATTA  
CAGCACAAGCACTACTCATGGAATATTTCCCGTAAATACTGCCAAATCG  
CTACACAGACTTAGTGGCCATCCAGAATAAAAAATGAAATTGATTACCTCA  
ATAAGGTCCTACCCTACTACAGCTCCTACTACTGGATTGGGATCCGAAAG  
AACAATAAGACATGGACATGGGTGGGAACCAAAAAGGCTCTACCAACGA  
GGCTGAGAACTGGGCTGATAATGAACCTAACAAACAAAAGGAACAACGAGG  
ACTGCGTGGAGATATACATCAAGAGTCCGTCAGCCCCTGGCAAGTGAAT  
GATGAGCACTGCTTGAAGAAAAAGCACGCATTGTGTTACACAGCCINCTG  
CCAGGATATGTCCTGCAGCAACAAGGAGAGTGCCTCGAGACCATCGGGA  
ACTACACCTGCTCCTGTTACCCTGGATTCTATGGGCCAGAAATGTGAATAC  
GTGAGAGAGTGTGGAGAACTTGAGCNCCTAACACGTGCTCATGAACTG  
AGCCAACCTCTTGGAACTTCTNCTTTAACTCGCAGTGGAGCTTTCAGT

Table 2

CACTTGACGGTACCTTGCGGNTCTAAGACTAAGT

>Sequence 188

GGAGGATGTGCANNNTNTTTTGAANANGCGACTCCACCGCGGTGGCGGC  
CGCCCGGCAGGTACTTTTTTTTTTTTTTTTTTTGTAACACAGGTGT  
CAGATGCATCACAAAAGCAGAAGTGCCCTTTCAGCTCTTCTCTGTGCCAT  
TCCTTGTCATTTTCATGCTGCCTACAGCAACAGCATAATACTGCAAAACAG  
CCATGATGTCACTCGAAGTGNTCTCTGTGATTGACAGAGAGGGACACGT  
CGTAGTCAAGAGGTGTGCTCCTCAGAGAATATCAGAACTCAACTCGCTG  
TGCCTCCAAGGGGCTCAATCCCTTGATTGAGGGGAGGGATGNAAATATT  
CTCTGCATGAAGAGAGCNAGCGGATGGGAAGTGATACTAGGTATGTAAAG  
GATGGTCAGTTACCTCTAAATGTAAAGTTAGACCAGGACAGCCAGAATCAC  
CGAAGGTCTTGGTTAAGGTCCTCTGTAAACAAGGCCGTAGAAGGCCCAGA  
AATGTNGGTGACAGCGAGACACNATTTCTTAAACTCTTACANCTTGTGT  
AAATGAGTAAGAAAGGTGACANTTTGTTTGGAAAAATCCCCCTCCCCAGC  
CCTTTTGTTCCTCAAGAACTCAGTTATTCAATTTTCTGGTGCCCTAA  
CATACAGTAGTTCCTTAAGATAAAACACTACCTACTTGCAACAAAATCA  
TNAGAAGTGCCAGAGCCATTACCAAGATGGGTTACCATAAGAATTAAGAA  
AATATTATTGCAAAAAAATAAAGGTTCTAAAAAGTTAAAAATGGGATTA  
AGATGGTAACTCTTACCTAATTCCTAAAAATGGCTTGTATTAAACCGAA  
CCGGCTTGGTACAAAAACCCGTGGTTTTAATCTACCCGAAACTTTGGTC  
TTAACTTCCCTTCTCCCTGACAATCTTAAATACCT

>Sequence 189

CCGGGCAGGTACCGCGNGAAGGAAAGCAGCTGCAAACTTCCCATCTGCAG  
TGTTTGTGTTGCTCGGCTCCGGCCATCACTGCCACGATTACCCCTGGATG  
AATTCCTCAGTGGAATATCAACAAGACTCAGCCACCTGCACCCAGGTG  
ATTAAAAAGCTTTATTGCTCACACAAAGCCTGTTTGGTGGTCTCTTCACA  
TGGACGCGCGCGACATTTGGTGCCCTGACTTGGATCAGGGGACCTCCCTT  
GGGAGATCAATCCCTGTCTCCTGCTCTTTGCTCCGTGAGAAAGATCCA  
CCTACGACCTCTGGTCTCAGACCAACCAGCCCAAGGAACATCTCACCAA  
TTTTTAATCAAGAATATTCTGTGAAAAAGACTAAGATATCAGAGAAATTA  
TTAGTGCACATTATTAGAAGAGAGCTTCAGATGAAAAATAAAGATCAAGAA  
AAGACTCTTGCTTTGAGAAGACACAAAGAAATCATCATCTTATTGGGA  
TTACTGGCTAGCCATATGCAGAAGATTGAAGCTGGTCCCTTCTTACACC  
ATATACAAAAAGCAGCACAAAGATGGATTACTTAAATGTAAACCCAAAAAC  
TATAAAAAACCCCTGGAGGACAAATCTATGCAATACCATTCTGGACATATGA  
AAAAAGCAAGGATTTCTGTGCAAAACACCAAAAGTTATTTGAACCAAGC  
CAAAAAATTGACTGGTGGGATCTAATTAAACGTGAGAACTTCTTGACAGCC  
AAAGGAAATTGCGGCCGAGTAAATAGACCATCTTAATAATGGGAGAAAAAT  
ATTTGCAAACTATGCTATCTTCAAGGGCTTATTTTAGCCTTTATAAGGT  
TGTTTCCAATTTCC

>Sequence 190

TGAATGATCTGATCGCGGGGCGGCCCGCCCGGGCAGGTGCCATCGCCGTCC  
CATTGCTCACAGGGACTGGGAAGGCGATGCCTGGCGGGAGCTGCTGGTGG  
AGAGACTCGGGATGACTCCTGCTCAGATTACAGGCCTTGCTCAGGAAAGGG  
GAAAAGTTTGGTCGAGGAGTGATAGCGGGACTCGTTGACATTGGGGAAAC  
TTTGCAATGCCCCGAAGACTTAACTCCCGATGAGGTTGTGGAACTAGAAA  
ATCAAGCTGTACCCTGATGCTACAGACGAGGACATCACCTCACACATGGA  
AAGCGAGGAGTTGAATGGTGCATACAAGGCCATCCCCGTTGCCAGGACC  
TGAACGCGCTTCTGATTGGGACAGCCGTGGGAAGGACAGTTATGAAACG  
AGTCAGCTGGATGACCAGAGTGCTGAAACCCACAGCCACAAGCAGTCCAG  
ATTATATAAGCGGAAAGCCAATGATGAGAGCAATGAGCATTCCGATGTGA  
TTGATAGTCAGGAACCTTCCAAAGTCAGCCGTGAATCCACAGCCATGAAT  
TTCACAGCCATGAAGAATGCTGGTTGTAGACCCCAAAAGTAAGGAAGAGG  
ATAACACCTTGATTTTCTATTIN

>Sequence 191

TGGGAAGTGATCTAATCCCTCTACCGGGAGGCAGACGCCCGGGCAGGTAC

Table 2

TCCCTGGAAAAGTCCAGCTGAGAAAAGCGATCCTGCCCTCTGCTCCTCCAG  
GGTTACCCTCCTGTAAGTCTTCTGCTTAGTGTTTCAGAAATTGGGGGATGCT  
GGGACTGGGCAAGGACTTGTAGGCAACACCCCATAGCCTGCTCATGCCTG  
TTGGGTTGCCTATGGATCATTCCCTGCTGGGCTCACTCACCGGCTTCGTA  
TAAGGTCCCTTTTTGAGGTTTATTATTTCCTTGTCATATACTTGATGCTC  
TTCATTGGCTTGCTGGGACCTGCCTTAGGTTCTCCGAGGCATAAAAGGG  
CCGGACAGCCCCGAGTTGGGGGAACTCTGAAGCTTCTTGGTGGCTGGAA  
CCTTGGTCATCTTAAAAATCCTTCAGGTTTTAGCCTGTGCCCCAAGACA  
AGGATTTTTCCAGAATCTTCTACTTCAGTAGTACTGGTATGAGAAGTTT  
CGGCAACTTCTCCCTGATCCCCAAGTCCCAATTACACGAACTCCAAGCGG  
TTTGCTTCTNCCGCGTACCT

>Sequence 192  
GAATGATGAAGCCCTCTACCGGGTGGCGGCCGCCGGGCGAGGTACTTTTT  
TTTTTTTTTTTTTTTTTTTTTCTGGCTTGAAATACAGCTGAAATAACTG  
AATTTTCTACTTGAAACGTGTGTGCCTCTCCACTGAGGGGCCAAGGCCCT  
GGAAATGTAAAGGGCCAATCTTTGTTACAGAGGGGTTTATTGCAGTGAAG  
GGCGGGTTCTGCAAAGACAAACAGGTCTCACAGATAGTTGCCCCGCGTA  
CCT

>Sequence 193  
ACTGTACAGATCTAGTACTTTATCATACTTAATACGTGTGTATGTTTCAA  
CAACGATTATCTGTATACAATTCTATAATTTATATAGAAATATCTTATAAT  
GGTTTGATAATTACGTTTTATTAATAATTACANNTANNATGGGGCGTTG  
AATTAGATGCGCCTATCGGGNGGCGGCCGAGGTACGCGGGGCTGTAGTG  
GCTTCGTCTTCGGTTTTTCTCTTCCTTCGCTAACGCCTCCCGGCTCTCGT  
TAGCCTCCCGC

>Sequence 194  
CGCGCATCTTGTGTCTATAGTTAAATCATCATCTCTGAGATCACTATTAA  
TTGTCACCGTATTTCGAATTTCTTCAGATGATGATTGAACAATAGCTTATG  
TGATATCATGTACGTCTGTTCCTTTCTCAANCCNTTGGGCNAGATGATTT  
GGGAGACNCTCTCCGCGGAGGCGGCCGAGCGGCAGCTACAACAACCGCG  
TCGCTCTCCGCTCAATTTCCAAGAGCCAGCTTTGAAGCCAAGTGCCCCCG  
CGTACCT

>Sequence 195  
AGGACGATGGTCGNANNTGCAGCNTTACCGCGGTGGCGGCCGGTGTGCTG  
TGCTCAGCTGCCTTCCAAAGGAGGAACAGATCGGCAAGTGCTCGACGCGT  
GGCCGAAAATGCTGCCGAAGAAAGAAATAAAAACCCTGAAACATGACGAG  
AGTGTGTGAAAGTGTGGAAATGCC

>Sequence 196  
TGGATGATGCGCTCACCGCGGGCGGCCGAGGTACTTTGAGCTCATAAGC  
TGGTATAAAAATCAAAACATTTTACTGTTTAAACAACCTCAAGATATGTT  
TTGCAAAATTACAAAACATTATACAGGTGACTTAATTAATATCTACTCCA  
ATTATACACAACACATCATGTCTGAAGATTTAGATTTATTTGAAAACACTT  
AGTCTAATTTATATTAGTGCAGAAAAATCACATTCAATAAACCAATTG  
TAGAAGAGACAGATAAGTGTGTTTGTACATTTTCACACAAATATAATTT  
GATATTTAATTAAGGGATGATGAA

>Sequence 197  
TTCTATCGTATGTATATATCTATACATGTCTTATCTATGTGTCTATCTTT  
TATTTGTTTTTGCATCTATATTATTTTTAATGCGTGTATATATCTATNT  
ATTTTGGTGTATGCGTTCTCGNGTGGCGGCCGATGTACCTGCCTCACAGT  
GCAGGGCGGTATGCCGCCAAACGCTTCCGCAAAGCTCAGTGTCCCATTTGT  
GGAGCGCCTCACTAACTCCATGATGATGCA

>Sequence 198  
CTTGCTCAGCCTTTCCAGGCCCTCTGATGAGCTCTCTAATCAGCAGGAC  
CAAGGTGTGAATGTGGGAATGAACATGGATCCATCCCATTTGGATGGAGAA  
GAAAGGTGGACAGCCTGTTCTCTCATGTACGCTAGGGCTGGGAACA  
GTTTGTGAGGACTTATCTGTTGTACCT

Table 2

quence 199

GTACTTGCTCAGCCTTTCCAGGCCCTCTGATGAGCTCTCTAATCAGC  
GACCAAGGTGTGAAGTGGGAATGAACATGGATCCATCCCATTGGATGG  
AAGAAAGGTGGACAGCCTGTTCTCTCATGTCAGCCTAGGGCTGGG  
CAGTTTGTGAGGACTTATCTGTTGTACCT

quence 200

AAAGATGGCCAGAGAGAAGCTGGAAGAAATAGATTGGGTGACATTTGG  
TTATATTGAAGAAGGTTACGCCACAGAGTGTGAATAGTGGAAAAACCT  
AGCATATGGAAACTGAATGATCTTCGTGACCTGACACAATGTGTGTCC  
TTCTTATTGGAGAAGTTCACAAAGCGCTCTGGAAGACGGAGCAGGG  
C

quence 201

GTCGTTGTTCTACTAAGTATATTACGTGTTCTTAATCTAGTATTATAC  
TTTCTAATATACTCTCAATCTTATTTGTTATATTATAATATTTGTT  
TATATTATTATTACATATCCAATANATCNATTATATGGTAGTTGTCCG  
GGCGGCCGAGGTACTCGGGCAAAGAGGGTGACAAGTCAAGCTCAACA  
TCAGAACTAAAGGAGCTGCTGACCCGGGAGCTGCCAGCTTCTTGGGG  
AAGGACAGATGAAGCT

quence 202

ACTGTGTTTATCTATTTTCATGTATCTGTAATTCTATTTATCTATCTAT  
AATCTTTTTTATTCTTTATTCTATTTTATCATATATTGTTTTATATAT  
NCNNTTGGCTTTGTCTTTGGCGCTCTGGCTGCCGTGGTACTTGGGGCA  
GAGAGGGTTTCAGAGGATCCTTGTGAAACACTAGTTAAAAGATGACGA  
GGGGAGAAGTGGAGGAAAGAAGGAAATTAGTCTGACTGGCTTTCTGT  
JGCACCATTTGATTCAATGGAGACTGGCGGGAGGAAATGGAAGACTAGG  
JGGAGATGGGATGGGTGGGGCAAGGGATGGAAAGGAAAGGCAGACAA  
AATGCGTTCCATTTATAACAAGTAATATATATCAAAGACTTAAAGGAG  
TAAAGACCAATCAGAATAATTTGGCAACTTTAATTCTTAGGAAGATCA  
GTTCCCTCCAAACCTAATTTGATGTTTTATTACTAAAAGCAAAGACCA  
ATGGTACCTGCCCG

quence 203

TTTCTGTTTCAATTTTCTCATAATGGATCTATTTATTGTACTGTTTAT  
TTTCTATTTATTTTCTAAATTTATTATTATTTTATATATATTAATT  
ATNTNCNCTTNTTGGTGTTCAGTNACCGNGTTGGCGGCCGCCGGG  
GGTACGCGGGGAAGTCTTTCCCTTCTCGTTCCCGGCCATCTTAGCGG  
JCTGTTGGTTGGGGGCCGTCCTCCTAAGGCAGGAAGATGGTGGCC  
AAAGAAGACGAAAAAGTCGCTGGAGTCGATCAACTCTAGGCTCCAAC  
TTATGAAAAGTGGGAAGTACCT

quence 204

GATGTAGTTGATGCGCTACCGCGGTGGCGGCCGAAAACCTGATCAGAC  
TCTCAGATCAAGGAAAAGATGGCCAGAGAGAAGCTGGAAGAAATAGAT  
GGTGACATTTGGGGTTATATTGAAGAAGGTTACGCCACAGAGTGTGAA  
GTGGAAAAACCTTCAGCATA TGGAACCTGAATGATCTTCGTGACCTGA  
CAATGTGTGTCCTTGTCTTATTTGGAGAAGTTCACAAAGCGCTCTGG  
GACGGAGCAGGGGACTGTCGTAGGGATCCTCAATGCCAACCCCATGAA  
CCAAGGATGGTT CAGAGGAGGTGTGTTTATCTATCGATCATCCTCAGA  
GTCTTAATTATGGGTGAAGCTCTTGACCTGGGAACCTGTAAAGCCAAG  
GAAGAATGGAGAGCCGTGCACGCAGACTGTGAATTTGCGTGACTGTGA  
ACCT

quence 205

ATGTGNTTTTGAAGCCTCTACCGGGTGGCGGCCGAAAACCTGATCAGAC  
TCTCAGATCAAGGAAAAGATGGCCAGAGAGAAGCTGGAAGAAATAGAT  
GGTGACATTTGGGGTTATATTGAAGAAGGTTACGCCACAGAGTGTGAA  
GTGGAAAAACCTTCAGCATA TGGAACCTGAATGATCTTCGTGACCTGA  
CAATGTGTGTCCTTGTCTTATTTGGAGAAGTTCACAAAGCGCTCTGG  
GACGGAGCAGGGGACTGTCGTAGGGATCCTCAATGCCAACCCCATGAA



Table 2

GCCCAAGGATGGTTTCAGAGGAGGTGTGTTTATCTATCGATCATCCTCAGA  
AGGTCTTAATTATGGGTGAAGCTCTTGACCTGGGAACCTGTAAAGCCAAG  
AAGAAGAATGGAGAGCCGTGCACGCAGACTGTGAATTTGCGTGAAGTGTGA  
GTACCT

>Sequence 206

GGCGATGGATTGATGCGCTCTCCGCGGTGGCGGCCGAGGTACTCACAGTC  
ACGCTCCTCTGAACCATCCTTGGGCTTCATGGGGTTGGCATTGAGGATCC  
CTACGACAGTCCCCTGCTCCGTCTTCCAGAGCGCTTTGTGAACCTTCTCCA  
AATAAGAACAAAGGACACACATTGTGTCAGGTACGAAGATCATTCAAGTTT  
CCATATGCTGAAGGTTTTTCCACTATTCACACTCTGTGGCGTAACCTTCT  
TCAATATAACCCCAAATGTACCCCAATCTATTTCTTCCAGCTTCTCTCTG  
GCCATCTTTTCTTGATCTGAGACAGTCTGATCAGTTTT

>Sequence 207

TGGATGATGAATTGAGCTCCCCGCGGTGGCGGCCGCCGCGGAGGTACATG  
GTTCTTCTTAGAAAGTGGTTCTTCTTAATGTGTTTCTTTTACCCCTTT  
TCTTCTTCTTCTTACAGATGTTTCTTCTTCTTCTGCCACTTTTCTTCT  
TCCTCTTCTTCAACTGAATAGGGTAAGTGTAAGGCACAACAAATTAACA  
CTGTATCAGATCTCATTCTCCAAAAACGTTTGAGTCCTAGTTTTTTTCT  
TGTCATTCTCATCAACTACCCAAATGTTTGTGTTTGTATTTTATAATTGG  
GAAGGTTCTCCAAGGCCTACCACTAACTTTAACGAATGATATAGATAGAG  
CTCAGAGCAATCTTCTCAGCATCATGAAGTCATGTATAAAAAATCAGGATT  
AAAACAAAGGTCATCTGATCTCCAATCATTATTGGGAAGAAAGTCAATTA  
TATTAGAAATGGTTAAGAGCTTGCACTCTGAAGTCAGACGGCCTGGGTTT  
AATCTACCTGCTGCAACCCCTGAAAAATTGTATTTACCCTTGGTGAAGCTC  
CCTATCT

>Sequence 208

GGTGATGAATCCACGATCCCTCACCGCGGTGGCGGCCGCCGCGGAGGAC  
ATGTTCTTCTTAGAAAGTGGTTCTTCTTAATGTGTTTCTTTTACCCC  
TTTTCTTCTTCTTCTTACAGATGTTTCTTCTTCTGCTGCCACTTTTCT  
TCTTCTTCTTCTTCAACTGAATAGGGTAAGTGTAAGGCACAACAAATTA  
ACACTGTATCAGATCTCATTCTTCCAAAAACGTTTGAGTCCTAGTTTTT  
TTCTGTCAATCTCATCAACTACCCAATGTTTGTGTTTGTATTTTATAAT  
TGGGAAGGTTCTCCAAGGCCTACCACTAACTTTAACGAATGATATAGATA  
GAGCTCAGAGCAATCTTCTCAGCATCATGAAGTCATGTATAAAAAATCAGG  
ATTAAAACAAAGGTCATCTGATCTCCAATCATTATTGGGAAGAAAGTCAA  
TTATATTAGAAATGGTTAAGAGCTTGCACTCTGAAGTCAGACGGCCTGGG  
TTAATCTACCTGCTGCAACCCCTGAAAAATTGTATTTACCCTTGGTGAAG  
CTTCTATCTATAAACTTAAGAATGTCTTATCTTACTGGACTGTTACTG  
ATTTAAAAAGAT

>Sequence 209

CATACTATATAATTACGATATAATGATTATATCGATCTTCTAACTTA  
ACTATGTATATAATTATAAAAAATAATTAATACTACGATGAGTATATCTTA  
TGATCAACTACCAAATCTGTATGATACGTATCTCCACCGCGGCGGCGGA  
CGAGGTACACGACATAGGCACATGTGCAAACACAAAGAAGGTGGGCTGCT  
GCTTCTTTCTATCTGCCCCCTAGACCAGGCTCCTTTGCTTCACGTAAGATG  
GAGACTGTCCCATTCCTCTGAAGTTGCTGGAAGGACATTTCCAGGAAGA  
AACAAATTCCTCACTGCCTATAAACTGTAGTCACATGTGGGATAGTCAATA  
GAACATGAGAATCAGAACAATCTGGGCAAATGGGTATGGCAAGAATGGGA  
ACACCACAACAGGACAGATGCCAACTCTCATTTCATGCCAGGCCTTTTGGC  
ATATGGGTGCCTTCTGTGCTTCTTCCACCTATTCCTTCAGTCTCAACA  
ATCTCTTTGACCCTGACCGGGCG

>Sequence 210

GGGATGTGATTTTCGCTCACCGCGGTGGCGGCCGAGGTACTCACAGTCACG  
CTCCTCTGAACCATCCTTGGGCTTCATGGGGTTGGCATTGAGGATCCCTA  
CGACAGTCCCCTGCTCCGTCTTCCAGAGCGCGGTGTGAACCTTCTCCAAAT  
AAGAACAAGGACACACATTGTGTCAGGTACGAAGATCATTCAAGTTTCCA

Table 2

TATGCTGAAGGTTTTTCCACTATTCACACTCTGTGGCGTAACCTTCTTCA  
ATATAACCCCAAATGTCACCCAATCTATTTCTTCCAGCTTCTCTCTGGCC  
ATCTTTTTCTTGATCTGAGACAGTCTGATCAGTTTT

>Sequence 211

TGGGCTATGATGTCGCTCACCGCGGTGGCGGCCGAGGTAACAGTCAC  
GCTCCTCTGAACCATCCTTGGGCTTCATGGGGTTGGCATTGAGGATCCCT  
ACGACAGTCCCCTGCTCCGTCTTCCAGAGCGCGGTGTGAACCTTCTCCAAA  
TAAGAACAAGGACACACATTGTGTCAGGTCACGAAGATCATTAGTTTCC  
ATATGCTGAAGGTTTTTCCACTATTCACACTCTGTGGCGTAACCTTCTTC  
AATATAACCCCAAATG

>Sequence 212

CAGTCTACATCTAGTNTCTCTTTTTCATNATCTTGTATAGATGTATAACT  
ATCATCCTTCTGTTACATATACCTTATTGCTGTATTATGGATATACATA  
TATCAATTTACATTAGTTAGAATTTTATGTCTATAAACAACCAAGACGAT  
GATTTTCGAGCCCTTACCGCGGNGGCGGCCGCCGCGGCGAGGTAACCTTTTA  
AATTTTTTTTTTCTGTAGAGACGAGGTCTTTCTATGCTGTTTCAGGCTGA  
ACTTCATGGGTTTATTGGGGATGGCTAATGGATGACATTGGCGGTGGTCC  
TTGATACCAGATAAGCCCTCAGTGTGAAGCAGCTCTTATTTTTCTTGTCT  
TTGAGATTGCTCTGGAATGGAAATTAGGCTTTTTTGAAGGTGTGACCTT  
TTTGTTCATTTCTTCAGCAGTTACTTTTTTAATTTTTAAATGTTTGACACA  
CAGTCTCTGATAAATGATCATTACCAATCACCGATTACTCTCCTTGCTC  
TGTTAAGTGTGACACTGTCCCTTTGAGAATCTGGCGACAGCTATGTATCC  
CATAACCACACACCCCAAAAAAAAAAATTTATGTCTGGTTCCAGGAGTT  
ACCTTTTATGAGAAAGTCCATTTGTGAAGAACCTGGATGTTTCAGAGAACTT  
CCTGGGAAACACTGGAAGAAAATAAAGAGGCCGGGCGGGGGCTCATGC  
TTGGAATCCCCACACTTTGGGAGGCTTAGGTGGGCAAATAAACTGGGGTC  
AGGAGT

>Sequence 213

TCTCCCTCGTACTCGATCATCAGAGTATACATATGAGTGTACTCTANTAC  
TACTACGATCTCTATACTAAAGTTATCCTATTCACTTTAGTGCCATCTGG  
TTCTATATGAACTCTAATATAATCATAGCGTGTATATATATACTATAT  
ACATTACCATTGGCGGTAGATTTCGAAGCCCTATCCGCGGAGGCGGCCGTTT  
GAGAAGCCAGCGCTACCCACCCGGGGTCTCTGTGCATTGACCTTTGGGT  
GCTGACTTGGAGAAAAGCACAAACACGACCAGTCCCCCGCGTACCT

>Sequence 214

TGGCGATGTTTGATCGAGCTCACCGCGGTGGCGGCCGAGGTACATGCCTA  
CAGATAGTCCCAGCTACTCGGGAGGCTGAGGCAGGAGAATCGCTTGAACC  
CAAGAGGCGTAAGTTGCAGTGAGCCGAGATCATGGCACTGCACTCCAGCC  
TGGGTGACAGAGAGAGACTCCATAAGAAAAAAGAAAAAAGGGGGGCA  
AAAAGAAAACAGATGAAACCAATGTGAATAATTTATTTTAACACAATATAC  
CTAACATATTTTTATTTCAATATCTAACAGTATAAAAAATTTACTTGTTT  
TGCCCTCTAGAGATAGTAAGCTCCTTAAGTAAACAGAAGTAATACCTGAT  
TAATTAGAAATCCCAACCCCTCATCAAGTGTGTGCTTATATAGAAGAAACC  
CAGTAAATGTTTGTGATTGAAAGATATTAATACTCTTGCTTGGATGAGA  
GTGAGGAAAAAGGTATTAGTATTGGCTTTTACAACCGCCTGGACCTGCC  
CGGGCGGGCGCTCTAGACTAGGGGGA

>Sequence 215

TTTTAATGTGCATCTCGCAGGGCGGNGGCGGCCGAGGTAACCTTGGAGTCC  
CCTGGTTTCTAAGAATTGCCGTTGACTCTTTCTTTGGCTTCTGCTGGCAC  
GGTAACCAGACTCCCTACAACCTGCACTCTTTGTCTTTGTCTATGGAAGCCG  
CGAGCGTAGAGGTTCCGCGTGCTCTGCCGGAAGTGTGAGCAGGTAACCTGGT  
CCTTTACACTTGTGAATTCGAAGCTTGCCAGATGTATCCTCAATGCATTG  
CCACTTCTGCCCCGGTTGTTACAGGCTGTCTGGTACGAGATCTCCGACC  
AGTCTGGGGGCGCTGGCGGCCTGCGCAGCCACCTCAAGATCACAGATTCT  
GCTGGCCATATTCTACTCCAAAGAGGATGCAACCAAGGGGAAATTTGC  
CTTTACCACTGAAGATTATGACATGTTTGAAGTGTGTTTGGAGCAAGG

Table 2

GAACAGGGCGGATACCTGACCAACTCGTGATCCTAGACATGAAGCATGGA  
GTGGAGGCGAAAAATTACGAAGAGATTGCAAAAGTTGAGAAGCTCAAACC  
ATTAGAGGTAGAGCTGCGACGCCTAGAAGACCTTTCAGAATCTATTGTTA  
ATGATCTTGCCTACATGAAGAAGAGAGAAGAGGAGATG

>Sequence 216

GGGTGTTGATAGATCGAGCTCCACCGGGTGGCGGCCGAGGTACTTTGGAG  
TCCCCTGGTTTCTAAGAAATTGCCGTTGACTCTTTCTTTGGCTTCTGCTGG  
CACGGTAACCAGACTCCCTACAACCTGCACTCTTTGTCTTTGTATGGAAG  
CCGCGAGCGTAGAGGTTCCGCGTGCTCTGCCGGAAGTGTGAGCAGGTCACT  
GGGTCTTTACACTTGTGAATTCGAAGCTTGCCAGATGTATCCTCAATGC  
ATTGCCACTTCTGCCCCGGTTGTTACAGGCTGTCTGGTACGAGATCTCC  
GACCAGTCTGGGGGCGCTGGCGGCCTGCGCAGCCACCTCAAGATCACAGA  
TTCTGCTGGCCATATTCTCTACTCCAAAGAGGATGCAACCAAGGGGAAAT  
TTGCCTTTACCACTGAAGATTATGACATGTTTGAAGTGTGTTTGGAGAGC  
AAGGGAACAGGGCGGATACCTGACCACTCGTGATCCTAGACATGAACATG  
GAGTGGAGGCGAAAAATTACGAA

>Sequence 217

TGGTNTACCGTGGACCTCACCGCGNGGCGGCCGAGGTACTATCAAAACA  
CATGATACAATTTAAATGTGTCTATAGCAACTACTAGTGGTCACCTGAAAT  
CCATTTTCCCCTCCTTCACAGTAAGAGTTTTAGCTGAATGAGTGGCCACT  
CATAGAGAGATTGCATTTCTGGCTTCCCTTGCAGCCATAGGTAGCCATGG  
GACAAAGTTCTAACCCAGGGGGGGTCCAATCTTTGGCTTCCCCTGGGACA  
CACTGGAAGAAGAAGAAATTGTCTTGGGCCACACATAAAATACACTGGCAT  
CAAGGATAGCTGATGAGCAAAAAAAAAAAAAAAAAAAAAAGTACCTGCCC  
G

>Sequence 218

GGGGNATATGTGCGCTCCCGCGGTGGCGGCCGAGGTACCATCCTGTTCCA  
CAGAGCCATTGCCTATTCTAAATTGAATCCGACTGGGCGTGCCCTCCT  
CGGAACACAACAGTAGACCTTAATAGTGGAACATCGATGTGCTCCCAA  
CATGACAAGCTGGGCCAGCTTTCATAATGGTGTGGCTGCTGGCCTGAAGA  
TAGCTCCTGCCTCCAGATCGACTCAGCTTGGATTGTTTACAATAAGCCC  
AAGCATGCTGAGTTGGCCAATGAGTATGCTGGCTTCTCATGGCTCTGGG  
TTTGAATGGGCACCTTACCAAGCTGGCGACTCTCAATATCCATGACTACT  
TGACCAAGGGCCATGAAATGACAAGCATTGGACTGCTACTTGGTGTCTTCT  
GCTGCAAACTAGGCACCATGGATATGTCTATTACTCGGCTTCTTATCAT  
TCACATTCTGCTCTTACCCCCAACGTCCACAGAGCTGGATGTTCTCTC  
ACAATGTCCAAGTGGCTGCAAGTGGTGGCATTGGCCTTGCATATCAAGGG  
ACAGCTCACAGACATACTGCAGAAGTCTGTTTGCTGAGAA

>Sequence 219

CACTACTCATCTCATATAACTCGATTTGATCATTATATACTAAATACTTCT  
CATTTTTTTTATTATTTTACTACCAATCTTTATTTCTTATATAAAATAT  
TTAAAAATACNCANAGGGGGCGTTGGCTTGAGGCCCCCTCCGCGGNGGCG  
GCCGNTATTGGTGGTGAAGACCCGTAGCAACAGTGGGCATGTCTTCTCGC  
GGTCGATCGGTTTCTCTGGCTCCTTTTTAA

>Sequence 220

GATATGTTGAACNNTTAGAGACGCTTCCGCGGTGGCGGCCGAGGTACC  
ATGATATCATGTATCCTGCTTGGACATTTTGGGAAGGGGGACCTGCTGTT  
TGGCCAATTTATCCTACAGGTCTTGGACGGTGGGACCTCTTCAGAGAAGA  
TCTGGTAAGGTACAGCAGCAGTGGCCATGGAAAAAGAAAACTCTACAG  
CATATTTCCGAGGATCAAGGACAAGTCCAGAACGAGATCCTCTCATTTCT  
CTGTCTCGAAAAAACCAAACTTGTGTGATGCAGAATACACCAAAAAACCA  
GGCCTGGAAATCTATGAAAGATACCTTAGGAAAGCCAGCTGCTAAGGATG  
TCCATCTTGTGGATCACTGCAAATACAAGTATCTGTTTAAATTTTCGAGGC  
GTAGCTGCAAGTTTCCGGTTTAAACACCTCTTCTGTGTGGCTCACTTGT  
TTTCCATGTTGGTGATGAGTGGCTAGAATTCTTCTATCCACAGCTGAAGC  
CATGGGTTCATATATCCAATCAAAACAGATCTCTCCAATGTCCAAGAG

Table 2

CTGTTACAATTTGTAAAAGCAAATGATGATGTAGCTCAAGAGATTGCTGA  
AAGGTGAAGCCAGTTTATTATGT

>Sequence 221

CATGCATCTCTCTNTGTCCATCACTATTTTGTAAATATCGATATTATAATG  
TCGATAAGTATCTNTTTGTGTATGTATTTTATACTGTCTATCGATCTATC  
TGTTATTATNTAATAACNANANCAGANTTGTGACCATTTTCTGAGGCNC  
GTCGCCCCGGGCAGGTACAGCAACAAGAATCAGATGCTCTTTAGAGATCCT  
CCATTTCACTTACTCTAACATTCTTCAATGTGGTTCCAGCCACGCATAGTC  
ATATAGATACTACATATTCAAAGATAACTTACTGAAGCTTGTTCACAGAA  
CCAAGCTTTCTCCTGATAGCTCTTCTTCCCCTACCCCGCACTTTTGGAAG  
TATTACCCCAAAATGCTCTTCAGGATTTAAATAACAATTTTAAAAAAGACA  
CTTAACACCACAAAAATGGAATTTGCTGGCATGACGCGAACAATACGGTTA  
CTCCAGATGCTGTATTCAAACGTATGGGTCCGTTGAAAAAATAGATATA  
ACCATTTTTCTCATAGACAGCATCTACTTTATACCAATTCTGGAAGT  
CTTCTTCTATTAGTCTCGGATAGTCTTTATCCATAATATGGCTAGTATCA  
TCATATCTCCAGACCTGGTTTCTGAGAACAGGAGAGTCTTGCCTGTATC  
CTCAAAGTGAACAGCTGCACTTATCTTCTTAACCTCTTTTGGAAGACCCA  
GTTTCAGATATTTTTTGGGATAACCTTCCAAAAATGTCATAACCAATT

>Sequence 222

TCATCACTCACATTCAGTATCCTCTCATTGTTAGTCTAATTACAATCGTT  
CTAATATCACACTCGTATTTTATAATATGTTATAACATGTTGACTTATGT  
TCTAGGAGATATCACTTATATTAATGCACCTAGTGGGGTTGATTCGAGTC  
ACACTCCGCGGAGGCGGCCGAGGTACGCGGGGAGTGTAACATATGGCCGGC  
CTGCGGAACGAAAGTGAACAGGAGCCGCTCTTAGGCGACACACCTGGAAG  
CAGAGAATGGGACATTTTAGAGACTGAAGAGCATTATAAGAGCCGATGGA  
GATCTATTAGGATTTTATATCTTACTATGTTTCTCAGCAGTGTAGGGTT  
TCTGTAGTGATGATGTCATATGGCCATATCTCCAAAAGATTGATCCGAC  
AGCTGATACAAAGTTTGTGGGCTGGGTTATTGCTTCATATAGTCTTGCC  
AAATGGTAGCTTCACCTATATTTGGTTTATGGTCTAATTATAGACCAAGA  
AAAGAGCCTCTTATGTCTCCATCTTGATTTCCGTGGCAGCCAACTGCCT  
CTATGCATATCTTCACATCCAGCTTCTCATAATAAATACTACATGCTGG  
TTGCTCGTGGATTGTTGGGAATTGGAGCAGTTTTTCAGAACTGTTTACA  
TTCCTTGGAGAAAAAGTGTGACCTGGGATGTGATTAAACTGCAGATAAAC  
ATGGTTCCACACCCGGTTACTTAGCGCCTTC

>Sequence 223

TGAGGTTGATTTCGACTCCNGTGGCGGCCGGAGTGATGCCATCTGCAGTT  
TTGTGATCTGCAATGATTCTTCCCTTCGAGGTCAGCCCATTTATCTTTAAT  
CCTGACTTTTTTGTGGAGAACTCCGACATGAGAAACCTGAGATTTTCAC  
TGAGTTGGTGGTCAGCAATATCACAAGGCTCATCGATTTACCTGGAACGT  
AGTTGGCTCAGCTGATGGGGGAAGTGGACCTTAAGTTGCCTGGCGGGGCT  
GGCCCAGCATCAGGATTCTTCCGGTCTCTCATGTCTCTCAAGCGAAAGGA  
AAAAGGAGTGATATTTGGGTCCCCACTGACGGAGGAAGGCATTGCCCAGA  
TATACCAACTGATTGAGTATCTACACAAAAACTTCCGAGTAGAGGGTTTG  
TTTAGAGTACCT

>Sequence 224

TGGAATGTTGGACCTCTTCGAAGGCGCGGCCGCCGGGCAGGTACTCCCT  
GTAAAGGGGAATTTCCATGCCGTCTACAGGGATGACCTGAAGAAATTGCT  
AGAGACCGAGTGCTCCTCAGTATATCAGGAAAAAGGGTGCAGACGTCTGGT  
TCAAAGAGTTGGATATCAACACTGATGGTGCAGTTAACTTCCAGGAGTTC  
CTCATCTGTTGATAAAGATGGGCGTGGCAGCCACAAAAAAGCCATGA  
AGAAAGCCACAAAGAGTAGCTGAGTTACTGGGCCAGAGGCTGGGCCCT  
GGACATGTACAGACTCTCATTTTATGATGTATCCTACTGCATCAGGACAT  
TTGTGTCAATGTCAAGTGACGAGGGGAAATGAAAGTGATGAGACGATGAG  
AGGAGTGAAATACCAAGGACGCCATACTAGGAAACCCAGGTCTATTTGTT  
ATCAGAGTAAGGATCAAGCCAGATAGCCTGTTATGTAATTTCTCCGATAA  
AAGATTTTGAAAGCAGGTGCTGTGGGCATCTGTATGGGGAATCGCACTCA

Table 2

TAGAATTATTTTCATTTGTAAATATTTGGTATCAGGCCAAGCAAGGGAAA  
GAAGCTTTACTGTATTACCATCTTT

>Sequence 225

GGGCGATGATTGGTGGCTCCCCGCGGTGGCGGCCGAGGTA CTACAGTC  
ACGCAAATTCACAGTCTGCGTGACGGCTCTCCATTCTTCTTGGCTT  
TACAGGTTCCCAGGTCAAGAGCTTCACCCATAATTAAGACCTTCTGAGGA  
TGATCGATAGATAAAACACACCTCCTCTGAACCATCCTTGGGCTTCATGGG  
GTTGGCATTGAGGATCCCTACGACAGTCCCCTGCTCCGTCTTCCAGAGCG  
CTTTGTGAACCTTCCCAAATAAGAACAAGGACACACATTGTGTCAAGGTCA  
CGAAGATCATTCAAGTTTCCATATGCTGAAGGTTTTTCCACTATTCACACT  
CTGTGGCGTAACCTTCTTCAATATAACCCCAA

>Sequence 226

TTGGAGCTACCGCGGTGGCGGCCGCCGGGCAGGTACGCGGGATGGATA  
GCCGCTTGCAGGAGATCCGGGAGCGGCAGAAAGTTACGGCGACAGCTCCTC  
CGCAGCAGTGGGAGCTGAAAGTGCCGACAGCATTGGTGCCGTGTTAAA  
TAGCAAAGATGAGCAGAGAGAAATTGCTGAAACAAGAGAACTTGCAGGG  
CTTCTATGATACCTCTGCTCCAAATGCAAAACGTAAGTATCTGGATGAA  
GGAGAGACAGATGAGGACAAAATGGAAGAATATAAGGATGAACTAGAAAT  
GCAACAGGATGAAGCTTATCATCAATTCATTGTATAAAAAATAAGAGATT  
TTCCTGAGAGAAGTATTTCAAATGCTTCTGATGCTTTAGATAAGATAAG  
GCTAATATCACTGACTGATGAAAATG

>Sequence 227

TGGTTGTTTCCNNTANNATTTGAAGCGCTACCGCGGTGGCGGCCGCCG  
GGCAGGTACGCAAAGTGATTACAGAGAACGCTGGGGCTCACAGGCGCTGTA  
GCAAACGTGCAACTCTTGAGGAACACTTAAGACGCCACCATTCAGAACAC  
AAAAAGCTACAGAAGGTCCAGGCTACTGAAAAGCATCAAGACCAAGCTGT  
TACTAGCTCTGCGCATCACAGAGGGGGGCATGGTGTTCACATGGGAAAT  
TGTTAAACAGAAATCAGAGGAGCCATCGGTGTCAATACCCTTCCTACAA  
ACTGCATTATTAAGAAGTTCAGGGAGTCTTGGGCACAGACCAAGCCAGGA  
GATGGATAAAATG

>Sequence 228

GCATAGGAAAGACTTGGCTGTTGGGAGGGGCGTGTCTTACACCTTAGGAA  
GAATCCTTAGCTGTACTTTCTGTCTCTCTGGAGCTCCCTCCTACCCCC  
TAGCTGAGTAGGCCAGGTTTTGGTGCAAAATCTCCACATTGGCAAAGTT  
CCTGCATATGCTGCGCAGTATGTGCCTTGAATAAAAAATCCTGAAGATTAG  
ATGGTTCAGGCTGCATCATCCCAAAGCAAAGAGCACCTCTTTGAAGCTCA  
CCTGCCCCGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTCAGTATG  
TAGCTTTAAACAGTTACATATAACATGGAACAGTATGACATGAAAAGAG  
AGAGGTTTATAGAGGGAGAATGGAATTGGGACAGCCCTGCTTACCGAGG  
TTGCCCTCCAGTCCTTGATTCTTTTGGATCCCAACTTCCTGTTTGGCTG  
AAAACGGCTGGAGCTTGCTCCTTGCAATCTTGGCCTTACAAAACCTGGACT  
TCTGGCCCATCTTTAATTTGATTTTTCTTAGGAACCCCGTTAAAGGT  
TTTGTGGGAG

>Sequence 229

TGATGATTGAGACCTCTCCGCGGGGCGGCCGAGGTA CTACAGGATGATGG  
CTTTCTCTTCTCTGGGTACAGGCAGGGCCATGGAGTTGGGGAGAGAAT  
GTCTAAACCTCTGGGGGTATGAACGGGTAGATGAAATATTTGGGTGAAG  
ACAAATCAACTGCAACGCATCATTCGGACAGGCCGTACCTGCCCGGGCGG  
TCGAGCGGGCGGCCGAGGTACTTNNTTTTTTTTTTTTTTTTTTTTTTT  
TATTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGGAACCTGTTACATTGGT  
CAGTTTTTACTTGTA AAAAGTATTATAGAAGAGTTTTATTGGAATGTTAT  
TTTATTAAGCCATTTTCATGGGTATTTTTTTTTTAAAGTTTAAGAAGTTT  
TTACAACAGGCTGGGGGGGGGGTTACACCTGGCAATCCAGCACTTTGG  
GAGGCCCGGGCGGCCAAAATACCTGAGGTGGGAGGTAAAGAACCGGCCTG  
CCCAAATGGGGAACCTTTGTTTTTTCTTTAAATTCCCAATTAATTTCCA  
AAATTTAGGTCTTGGGCCGTTTAGAAACAGGGGGATCCCCCGGCTTGAG

Table 2

GAATTCGATTTAAGCTTATTGAACCCGGACCTTGAGGGGGGGG

>Sequence 230

ACGAACTGTGGCTGCACCATCTGTCTTCATTTTCCCGCCATTTGAAGAGC  
AGTTGAAATCTGGAAGTGCCTTTGTTGGGTGCCTGCTGGATAACTTCTAT  
CCAGAAGGGCCAAAGACCCCT

>Sequence 231

TCGTTGTGCTCTTCGGTCTCTTTGTGTCTTCTTATCTTTTCGTTCCCTTTTC  
TGTGTTCCCTCGTCTTTGTACTTTTTTTTCTATTTTCGTCTCACACTAGAAA  
ANNNTTTATGCTTTTATCAACTCCCCGCGGTGGCGGCCGAGGTACGACGT  
TTCCATCAGCTTGTCTGTTTCATTCCCTGATGTTACGAGCAATATGACCA  
TCTTCTGTATTCTGGAAACTGACAAGACGCGGCTTTTATCTTCACCT

>Sequence 232

TGCACTGAGTCGGAGCGCTCACCGCGGTGGCGGCCGCCCGGGCAGGTACT  
TTATTTTTTTTTTTTTTTTTTTTTTTCTTTTAAAAAAGATAT  
TTTAATATATTCAGATCCACAAATATGAAATAAACTAAGTAGAGCTGGT  
ATTCAATTTACACATAATTATCTTATACCGTTTGGAAATAAGAATTTGGGGC  
ACGTTAGCAAACCAAAGGCTCAAAAAGACGTCGAGATATTTAGTTCTTG  
TCTCCCTCTACAAATGTGAAGCACTCTTTTATCCGGCATTCTAGGGGAG  
TTCTATTTTCAAATTTGCAAATCATTTCTGGTGCTAAGCAATCTCAAAA  
AAAACATTTACTAAAAACCAGAGGAAAAAATCTTATACTTTGGGAGGC  
TGAGGCAGATGGATCACTGAGATCAGGAGTTTGAGACCAGCTTGCCCAAC  
ATGATGAAACCCCTTTTTTTTTTAAAAATCCAAAAGGTTTCCTTGTTGT  
GGTGGCAGGGGCTGGAGTCCCAGCTTTTCCAAAGGCTTAGGGAGGAGAA  
TTACTTGAACCTTTGAGGCGGGGTTGCAATGAGTTTAAATCTCCCCTAT  
TGACTCCAACCTGGGAACAAGGGGAGACTTTGTTTTCAAAAATAATTTAA  
AAATTAACCTTGTT

>Sequence 233

TGTCCCCTCCCGCTCCACACTTACAACCTTCTACATTTCCGTCTCTCGTTC  
TCTTGTTGTTTTCGTCGTTGTATTTTCTTGGTTGCTCATTGTTGTTCCCA  
TNAAATNANNNCANTAGCGTTTTTCGGCTCCCCGNGGNGGCGGCCGCCCGG  
GCAGGACGCGGGGGCCAGTTCTCTTCGGGGACTAACTGCAACGGAGAGAC  
TCAAGATGATTCCCTTTTTACCCATGTTTTCTCTACTATTGCTGCTTATT  
GTTAACCCTATAAACGCCAACAAATCATTATGACAAGATCTTGGCTCATAG  
TCGTATCAGGGGTCGGGACCAAGGCCCAAATGTCTGTGCCCTTCAACAGA  
TTTTGGGCACCAAAAAGAAATACTTCAGCACTTGTAAGAAGTGGTATAAA  
AAGTCCATCTGTGGACAGAAAACGACTGTGTTATATGAATGTTGCCCTGG  
TTATATGAGAATGGAAGGAATGAAAGGCTGCCCAGCAGTTTTGCCCATTG  
ACCATGTTTATGGCACTCTGGGCATCGGGGAGCCACCACAACGCAACGC  
TATTCTGACGCCTCAAAACTGAGGGAGGAGATCGAGGGAAAGGGAATCCT  
TACTTACTTTGGACCGAGTATGAGGCTTGGG

>Sequence 234

TTCTCGTGTCTCTCGTACATATANTCCATCTTTATAAATTCTCTCTGTTA  
TCCTACCCTCTTCAAGTTCATCTATTATAAGTTGATCGTATTATTGTCTA  
TATACGATATTTTTTACATATTACTATCTCNCNNCTCACAGCTAGTTGGA  
NCCATTTAGAGTCCCTCTTCGCGGAGGCGGCCGCCCGGGCAGGTACAGTAT  
AGGTTGGTTTTGCCTGTTTTGACGCTTTATATATACGTAGACACACATAC  
ACATGTATATATACACACACACATTTTACATATATATGAACTGTATA  
ATGTGTTTCGCTTCAGTGTCTGGCTGCTTTTACTCAACATTGTGAAATTAA  
TTCCCTGTTATCGTATATGGGATTAAAAATTTGTTTGCCTAGTTTTGCCTT  
CTCATTGCTTCTGAATTGGGGCAGCTTTGCCCTCAAGGGAAATTTAGCA  
ATGTCTGGAGACATTTTTTATTTTCATAATTTGGAGGGACATGGGGGAGG  
TGTGCTACAGAACTTAGTAGGTAGAGGACAGGGTTAGTGCTGAACGTTCC  
ACAGTACCT

>Sequence 235

TCTTTCATTTTCTTGTTATTCTCAATACATTGTTGTATGTGTGAGTTT  
CTCTTCTCTTCGTCTTGAGTTATGTTGTTATTGATCGACTGTGCGTGATC

## Table 2

GGTTTCTTTTCTATGTTAACGGCCACNNCANNNTTCTTTGTTTCGAGTGA  
CCGCGGNGGCGGCCGAGGACTTTTTTTTTTTTTTTTTTTTTTTTTTAT  
AATAATTTTGTCAATTTTGTAGAGACAAGGTCTCCCATGTTGCCCAGGCT  
GGTCTCAAACCTCTAGGCTCAACTGATCCTCCTACCTCCACCTTTGCCTC  
CCAATTATCCCCAATTGAGAGATGAAAATTCTGACAAGCTCTCAAACGTT  
AACTGACTTGCCCATAAATGACAGTTCCAAAGTTATAAGGCTAGAAC

&gt;Sequence 236

GCGAAACTAACCAGTGCTCCCTACACGCTGCTTTCGCGCTCCCATTCCTC  
CCACTCTTAGCTCGTTGCATATCCGACGATACTCTTTGGCGGTTTTTGCT  
TNCNCNTATTTTGTGGGACGCGTGGCCGAGCGGCGCGGCCCGGGCAGGT  
ACCTACGCCACAGACAGCCAGAGGGAAAGCGACCCAGACAGCAGCCCCCTC  
CTCGACAGGCCACCCCTGCAGCTCAGGCACCAAGAAAACAGCCGATACTG  
GCAGCCATTGCAGCTCCAACTGCAGAGGCAAGGCCAATTTAACTTTTC  
AATTTACAGTCGATTTTGAAGAGCTTCTACATATCGGTTATGTAAATTCA  
TATATGTATTTTGGAAATCAGTTCTTATAAACAGCTCGATTTCAGTTTTCAG  
CTAAATTTATAGTCTAGGTAGTATGTTACATTTGAACTTTGTCTTAAGA  
AAAGTTGACTGTTTCAGATATTTTCTACTGTAAAGAAATATACTTTTCTA  
TTAAAGATCTGTACCT

&gt;Sequence 237

GCAGTTTTGTGATCTGCAATGATTCTTCCCTTCGAGGTGAGCCCATATC  
TTTAATCCTGACTTTTTTGTGGAGAACTCCGACATGAGAAACCTGAGAT  
TTTCACTGAGTTGGTGGTCAGCAATATCAAAAGGCTCATCGATTTACCTG  
GAACTGAGTTGGCTCAGCTGATGGGGGAAGTGGACCTTAAGTTGCCTGGC  
GGGGCTGGCCAGCATCAGGATTCTTCCGGTCTCTCATGTCTCTCAAGCG  
AAAGGAAAAAGGAGTGATATTTGGGTCCCCACTGACGGAGGAAGGCATTG  
CCCAGATATACCAACTGATTGAGTATCTACACAAAAACTTGCGAGTAGAG  
GGTTTGTAGAGTACCT

&gt;Sequence 238

GGCTATGATCAGCTCACCGCGGTGGCGGCCGAGGTACGCGGGGATTGTGT  
GCAAAATCAGAGAGGGGTGCAAGATCCTGATTTTTCAGGAGTTCAAGCGA  
CAATGGCAGCCCAATACGGGAGTATGAGCTTCAACCCACAGCACCCAGGG  
GCCAGTTATGGGCCTGGAAGGCAAGAGCCCAGAAAATTTCCAAATTGAGAAT  
TGTGTTAGTGGGTAAAACCGGAGCAGGAGAAAAGTGCAACAGGAAACAGCA  
TCCTTGGCCGGAAGTGTTCATTCTGGCACTGCAGCAAAATCCATTACC  
AAGAAGTGTGAGAAACGCAGCAGCTCATGGAAGGAAACAGAACTTGTCTG  
AGTTGACACACCAGGCATTTTCGACACAGAGGTGCCCAATGCTGAAACGT  
CCAAGGAGATTATTCGCTGCATTCTTCTGACCTCCCCAGGGCCTTATGCT  
CTGGCTTTGGTGGTTCCACTGGGCCGGTTCACTGAGGAAGAGCACCAAGC  
CCCAGAGAAGATCTTGAAATGTTTGAGAGAGGACTTGAAAGTTTCT

&gt;Sequence 239

CTCTTGTTCTTCTCCCCATTTTGACTCCTAAACCACCTCTCTGCATAACT  
TCCATTGCTTCTTTATCATCCTAATTCTTCTACTCTTCTGCTCTTATTC  
TTTCCCCCNNNCANTTGCCTTGTTCGACTCCCCGCGGTGGCGGCCGAGGT  
ACCAGTTAAGTGAACAGCTCGTCTAGGTCTGCTTTTGTAAACCCCAAATA  
CAATTAGCACTTCTCTGCTGGTATTCCTTGGGCCGTCTTAATTATCTAGA  
GGCCAGGAGGCAAGCCTAGCACGTAACAAAGTATGTGCTTTGTAACTGC  
TGATTAATTCAGTTTCTTAACTAGGCAGAGCAGGTCATCAGTGTATCTAA  
TTCACACTATTAATACACTGTCTTGCTGAAGAGTCTGACCTGCCCAGAAC  
CCCGTTATGGCTAGCCCAGGGAAGCAGTAACTGCAAAGCAGAGAAAAGG  
GGCAGCTAAGATGAGGCTAGTGCTGGCTGAGTCCCAAGTTAGGTCTGTTAC  
TGTTCTGTTCCAATAATAATCCAGGATGACTGTTACTCAGATTTCAGTGC  
TATGTAGAAAAATAGAATGCACAGGCCAAAAACATAATTTGGGGATGACTGG  
CAGACCTTTTTTCCCTTCTTAAAGAGGCTAACTG

&gt;Sequence 240

TCATTTTCATGAAATTTTATTCATATTATTTTTCATAAACTCCATAGTTCT  
TTCTATGTCTACTAGTTTTTATATTATCTATTTCAACTTCTTATTTTCTT

Table 2

AAAAAATATNANTTGGCGTCTGGCGCCCTCACCGGGGGCGGCCGAGGTAC  
TTTTTTTTTTTTTTTTTTGGTATGACTATGAAGGCTAGTGGTCTTTTTAT  
TAGCTATCAAGTTCATTTAACAGACAAAAAATTCAGTTCATGCGGGGCAT  
TAAAAATAGGAAGAATTAACAATAGTTCATTAATCAATCTTTCAGCTGTTT  
CTATTTTATCACAATAACTTTTCCTATAATTGAGAGATCCATGAGGAAGT  
CTTGAAAAGAACGTATGTTTCTTCAATTCCATAAAACATTCAGCCAAAA  
TAATAAAAGAGGCGCTATTACTTTGTTTTGGGTGAATGATATGCAGGCTA  
GGCTTTGCTGTAGTACCT

>Sequence 241

GCGGTGGCGGCCGGTGTGCTGTGCTCAGCTGCCTTCCAAGGAGGAACAGA  
TCGGCAAGTGCTCGACGCGTGGCCGAAAAATGCTGCCGAAGAAAGAAATAA  
AAACCTGAAACATGACGAGAGTGTGTAAAGTGTGGAAATGCCTTCTTA  
AAGTTTATAAAAGTAAATCAAAATACATTTTTTTTCCAAAAA  
AAAAAGTACCT

>Sequence 242

GATCAGACTGTCTCAGATCAAGGAAAAGATGGCCAGAGAGAAGCTGGAAG  
AAATAGATTGGGTGACATTTGGGGTTATATTGAAGAAGGTTACGCCACAG  
AGTGTGAATAGTGGAAAAACCTTCAGCATATGGAAACTGAATGATCTTCG  
TGACCTGACACAATGTGTGCTTGTCTTATTGGAGAAGTTCACAAAG  
CGCTCTGGAAGACGGAGCAGGGGAC

>Sequence 243

TGGGCCCTTTGCCTCACCGCGGGGCGGCCGAGGTACGCGGGGTGCTGGGA  
TTACAGGCACGAGCCAGTGCGCCAGCTGCCTCTGTTTCTTTATTAGCT  
GTTCTGGACTGTGGGCTCCTTGGGCAGATGCTGTATTATGGGGATAAGC  
CACACACTTTTTTGAAGTGGCCCGTTCAGGGGGGACATAACCATTTCTGT  
GCCACCCCATCAATCCCCACCTATTCTGAGTGTAGGCTCCTCCCCCTGCTT  
GAGTAATGGCCACAGATCTTGGCTCGGCACCTCCTAAGCTGCATGTTGAAT  
TCCTGGGACAACAAGACTGGCTTGTGGTTCCATTCTCCAGATCCTTGGGT  
TGGCTTCTGGGTGCACTAGGAGATCTGAAATGCTCTCAGGCCACAGGAA  
AGTACTGGAAGTAAAGTCTGACTCTAAAGAAGATGAAAATCTAGTAATTA  
ATGAAGTAATAAATTCTCCAAAGGGAAAAAACGCAAGGTAGAACATCAG  
ACAGCTTGTGCTTGTAGTTCTCAATGCACGCAAGGATCTGAANAGTGTTT  
TCAGAAGACTACTAGAAGAGACGAAACGAACCTGTGGCTGTAACTTTTG  
AGTGAAAAGACAAAAATGGCTCTTCGTGGTCCAAAAAAG

>Sequence 244

GTCTTTTATAGTAGGGATAAGGTTTCACCATGTTGGCCAGCTGGTCTTTAA  
CTCCTGACCTCGAGGGATCCACCCACCTCGGCCCTCCAGTGTGCTGGGAT  
TACAGGCATGAGCCACGGCACCCGGCCCTGGTTTGTCTTCTGAACCATGT  
CAATACAGTACCACACAGTTGCTATCTCTTGAACATCTTTTCAATTAAC  
ATCACCGTCTAGTTTGAGAATACTTTTAAGCCTGCTGGCCTCCTTGGGG  
CATCTTTTTTCTCTTTTCAGCACGCATCTTTCTTTTCCACTTACTCCGT  
AAGCTTTTAGCCATGTTTTACCTTGAGGGCCGAAGTTAACTTCAGCGGGA  
GTGAACGACAGGGGTGGGCTCCACTTTATCCAGTGCACCTCGGAAGCCGGA  
GGGCCCCACCAAAAAGAGCAAGGGGAACCCCTCGCCCTCAACAAGGCCTG  
CATCTCCGGACTGGAGCTCAAGTATAGCCCAGCGAGTGTCAAGAAACGAA  
ATTCTTCAGGGTGGCGGAATCAAGCCCAAGTCCCATGTTTACTGACCGGG

>Sequence 245

GGGCGATTAGCCCCTGCTCACCGCGGTGGCGGCCGCCCGGGCAGGTACAA  
TTCTTGAAGTGAAGTTCATGGTCCGTAGGAGGATGACCACTAGCCCACCAC  
CTTCCACTGTTTCTACAGTCCCTGGCCAGCAAGTTTGGAGTTAAGGCTTCA  
AAATCCTGCAGCACACATGCCGAAGGTATTGCCAGGATCTTGTGGGT  
CTCGTTGTAGTAGCAGTAGCGAATGTTTGTGGCTGCTATGAAGAGTTCAA  
AGGGTCTGTCCTGCTTTATGTTTCAGTGTTCATTCTTTATTTTCTTCTGC  
AGCTGTGCGATTCTTTTCTTTCGGTGACTGCTAAACCCCAACTTTTTTT  
TATACCAACCCCAACACTTGAAGGGCGGACCCCTTACAAAGTGGCTTTTG  
GAATAACCCCGGAAGGAAAATTTTTTCCCCCCCCGGGGTCTTTTTTCTTT



GAACCCCCCAATTTCCACAAAAAGAGGGAGATTTTTTGCCGGTAAACTTA  
CTCCATTTTTTAATGGGAAAATCCGGTTTTGGTTTTTCCCCTTTTTTCCG  
GGGGCAGGGGAAAAAATTTTTTTGGCCCCCAGCCCCGGGGTCCN

>Sequence 246

CGTCTCGTTACACCTCGTCGACTTGGCTTCTGTATGTTACTTATTATTAT  
ATTTGTTACTATGTTTATACTATCTATCTTCAGTCCATCATAATAATT  
TGCTTTACCATGTGTATAGTAGTTTAGGTAATCTTTTGCTACNNANTCNN  
GCNANTTGGGGTTGTATGTACGCTNTCTCGGGTGGCGGTCTGTTGGGATC  
AGCGTAGGTGAGCTGTGGCCTTTTGGGAGGTGCTGCAGCCATAGCTACGT  
GCGTTCGCTACGAGGATTGAGCGTCTCCACCCATCTTCTGCGCGGGACCA  
TCTACATAATGAATCCCAGTATGAAGCAGCAACAAGAAGAAATCAAAGAG  
AATATAAAGAATAGTTCTGTCCCAAGAAGAACTCTGAAGATGATTCAGCC  
TTCTGCATCTGGATCTCTTGTGGAAGAGAAAAATGAGCTGTCCGAGGCT  
TGTCCAAAAGGAAACATCGGAATGACCACTTAACATCTACAACCTCCAGC  
CCTGGGGTTATTGTCCCAAAAAAAAAAAAAAAAAAAAAAGTACCT

>Sequence 247

GCTCTAAGCTATAACGTACTAATATTTGATCTATTCATATACATTATCAA  
TCACTAATACACACATCAATATACTTACGTATAATACACTATCTTAGTTC  
TCTAATATAATTTATNANTNTANTTTGGCGTTTGGCTTCTCCCCGCGGGNGG  
CGGCCGAGGTACTCCCCAGCAAATATGCTTGGTGGGCTTGCTTGACTAGA  
TGAGCTGCTATAGTAGCCAATCCTGTTAGACTTGGACCAATTGTTTGTCTG  
AAGAACGGGGATCTGTGCTCGCCCTGAGCACTGTATTTATCCCCTTAC  
TCAGTCCCAGGGACTTCTCCAGTAGCGACAACCTCTGCGGCCGCGCCATC  
TTC

>Sequence 248

TGCCGCGTATATGCANCTTCCCGCGGTGGCGGCCGAGGTACTTNNTTTTT  
TTTTTTTTTTTTTTTTCTTTTTTTTTTTTTTTTTTTTTTTTACAGAGA  
CGAGGAATTTAATTAGGGTTGTAACAAATGGTTAATTATAGTAAGAAAAA  
CCAAATTGAATAATTTTCTAACTCACTTGGCAGGGGGGGTCTCGCAGCCA  
TAATGAACATCACATAATGAAGTACTCCTTCCAGATCTATAAACAGGC  
TCATGTAACATACTGATACTCAGTAAAAGGGTCCATAATCCAAATTTATA  
TAACAAATGGGGCTTGCTATAAAATCTCTTACATTTTAATACTTACTCTT  
AATAAATCATCTATTCTTCCCTCCTTCTTCTCTAAGGAGAATTCTTACT  
GTTTTCTAGGGCAGATATTTTTTCTATTGTGAGGTGCGACTGGGTCTGTC  
TGGGCTGGATGGAGATCTGTTTTTGGGAGCTGCAGGAATGCTCTGTGTTG  
CCAGATCCCGTAAATGAGGGACTGTTTTGCTGAGCTGAACAAAAGTGAAG  
CAGG

>Sequence 249

GATCAGACTGTCTCAGATCAAGGAAAAGATGGCCAGAGAGAAGCTGGAAG  
AAATAGATTGGGTGACATTTGGGGTTATATTGAAGAAGGTACGCCACGG  
AGTGTGAATAGTGGA AAAACCTTCAGCATATGGAAACTGAATGATCTTCG  
TGACCTGACACAATGTGTGTCCTTGTCTTATTTGGAGAAGTTCACAAAG  
CGCTCTGGAAGACGGAGCAGGGGACTGTCGTAGGGATCCTCAATGCCAAC  
CCCATGAAGCCCAAGGATGGTTTCAGAGGAGGTGTGTTTATCTATCGATCA  
TCCTCAGAAGGTCTTAATTAATGGGTGAAGCTCTTGACCTGGGAACCTGTA  
AAGCCAAGAAGAAGAAATGGAGAGCCGTGCACGCAGACTGTGAATTTGCGT  
GACTGTGAGTACCT

>Sequence 250

GGTNTCGTATGCTTATCGCGGGCGGGCCGGAGTGATGCCATCTGCAGTTT  
GTGATCTGCAATGATTCTTCCCTTCGAGGTGAGCCATTATCTTTAATCC  
GGACTTTTTTGTGGAGAACTCCGACATGAGAAACCTGAGATTTTCACTG  
AGTTGGTGGTCAGCAATATCAAAAGGCTCATCGATTTACCTGGAAGTGA  
TTGGCTCAGCTGATGGGGGAAGTGGACCTTAAGTTGCCTGGCGGGGCTGG  
CCCAGCATCAGGATTCTTCCGGTCTCTCATGTCTCTCAAGCGAAAGGAAA  
AAGGAGTGATATTTGGGTCCCCACTGACGGAGGAAGGCATTGCCAGATA  
TACCAACTGATTGAGTATCTACACAAAAACTTGCGAGTAGAGGGTTTGT

Table 2

TAGAGTACCT

&gt;Sequence 251

TTATCTCCACATTGATTCTCAATAAACATTTTCTTTTCGATCAAGAATT  
ATTCTAGTATAATATATATTTTTTGCTTCCGTTGTTATTTATCACACA  
CAAAAAAATAAATGGGTGTTGTCTCGATAACCTNTCCGCGNGGCGGCCG  
AGGTACCAGCACAAACCGGGCCAGCCTCTAAACTGCTCATTTACTGGGC  
GTCTACCCGGGAATCCGGGGTCCCTGACCGA

&gt;Sequence 252

GGGGNACGTTGCTTGATCGCNGGGCGGCCGAGGTACATTTTACTACGCAC  
CCTTACGCATTCTTTTCTCACCTCTGTGTGTGTGTGTGCGTGCACATGC  
ACACACACAAATGGGTGAAACAATTCTCACCATACCAAGAGCCACCGCGC  
CCTGCCGAGAATTTGCATTTCTAACAAGTTCCCAGGTGATGCTGACACTG  
CTGGCTCATGGAACCACTGCTGTAGTATTTTCCAAATATCCTGATTCTA  
AGAACCACCTATGACCTGTGCTGTTTTTCTGTGGTACTGGCTCATGTC  
ACATAAATTCTTTTAGGATTCAAACATGTTTGTGATATTACTCAGTATTT  
ACATCTTGCTTTTACTGCAGCATGATGGAAAAATTAACCACAGGTATATC  
ATAACAAAAAGAACATGAGTTACCATTTTCACAAAGTTCAGATATATTTA  
AATTAGCCTATTTAATCTTTTTTGGGTGGTGTGAAATGGAGTCTCACT  
CTGTCTCTCAGGCTGGAGTACGTGCTGGTTTAATTGTCCAAGGCGGGTCT  
GGACCAGACAACCTTTTGTAAAGGCTGGGCCGTGTCTTTGGTGGTTGGAGT  
CGGTCTCCTTTGGCCCTTTTTTGGTGGCCGGAATCGTGGCTGGCTGATTC  
AACAGTTCAAAAGGAAATTTGGTGGTTAGAACGGCC

&gt;Sequence 253

TTTCTTCGCGCCCGTGTCTTTTGCCTTTCAAAATTTTATTTTCTCTGCTT  
ACAGCTTTTTTTTACATAATACATAATTTTATTTTTTCGAATAATTTTC  
TACCCACAAAAAAATTTGANNAGGTGCTTGTAGCGCNTCTCGNGGNG  
GCGGCCGCCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTCTACCGGTAGC  
CTATTTTCAGATTTATTAATAAAACACATAGGTAACGAGTCAGAGCTTTGGC  
TAGGAATGAGTTGGAAAAAGAACTGAAGGCATAATTCCACAGGACATTAC  
AGTTGTGTGCTAGAGACAGAGAGGAGCAGGAAAGTGTTTTGAAGCATTT  
GCGGCCGACAATGGAAGGCCCGGCTTCATCGAATTCCTGTTTGTGATCC  
ACATCTGCTGGAAGGTGGACAGAGAGGCCAGGATGGAGCCACCGATCCAG  
ACAGAGTATTTGCGCTCCGGAGGGGCAATGATCTTGATCTTCATGGTGTCT  
GGGTGCTAGGGCCGGGATCTCCTTCTGCATTCCGGCGGCAATGCCAGGGT  
ACCTG

&gt;Sequence 254

TGTATATAGATAGAGCTCACCGCGGTGGCGGACGAGGTACTCATGGTTGC  
TGTAATCTGGCCGCCGTTCTGCAGGGTTATGCTTAGCCAGGCTCCTATG  
AGATCTGGCTATTCTGTCTTGTGGATGGTCAGTCCCCCGGTACCTGCCCCG  
GG

&gt;Sequence 255

GTNTAATCGTTGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGATTGT  
GTGCAAAATCAGAGGGGGGTGCAAGATCCTGATTTTTCAGGAGTTCAAGC  
GACAATGGCAGCCCAATACGGCAGTATGAGCTTCAACCCACGACACCAG  
GGGCCAGTTATGGGCTGGAAGGCAAGAGCCCAGAAATTTCCAATTGAGA  
ATTGTGTAGTGGGTAAACCGGAGCAGGAAAAAGTGCAACAGGAAACAG  
CATCCTTGCCGGAAAGTGTTCATTCTGGCACTGCAGCAAAATCCATTA  
CCAAGAAGTGTGAGAAACGCAGCAGCTCATGGAAGGAAACAGAACTTGTC  
GTAGTTGACACACCAGGCATTTTCGACACAAGAGGTGCCCCAATGCTGAAA  
CGTCCAAGGAGATTATTCGCTGCATTCTTCTGACCTCCCAGGGCCTCATG  
CTCTGTTCTGGGTGGTTCACGGGGCCGTTACACTGAGGGAGAGCACAAA  
GCCACGANNAGATCTGAAAATGTTTGGG

&gt;Sequence 256

GCCCCAGATTCAATCTGTGGTGACGGTCGGATACGATGAGGGACTACACC  
GCACACCACCACTTCTGTTTAATGTTTTGAATCTAAACGTTGAGGTGGGG  
CTNCACCATGTTGCCAGACTGGTTTTGAACTCCTGAGCTTAAGCAATCC

Table 2

ACCTGCCTCGGCCTCCCAAAGTGTGGGATCACAGGCGTGAGCCACCGCA  
TCCGGCCTCATGTTCTTTTCATTAAAGAGAGAAATCAACTATTCAGGAC  
CGGCCCCACCTTTCTCAGGAGTCATTTCTGTTCCGCACAGGCCTGCTG  
AACTGGGTGCTTTATATAGGGAAAGTGGGCCTCATTTTTTGGTCCCTGTC  
CTCAAGCCTTAGGGGGCAAAAAAACCTCCAAAATTGAAAAGGGTTTTTTT  
TTTTAAATCGGGAGGGGGGGCCCCCTCTTTGTGTCGGCGATTTCGGGGAA  
AAAAAAAAAAAAAAAAAAAAACCCCCCCCCCGCGCGCCCTTAAAAAAA  
AGAAACCCCCCGCGGGGGGGATTTTTTATATTTTTTTTTTACCCCC

>Sequence 257

GGAGATGATTGAGCTCCCCGCGGTGGCGGCCGAGGTACTCTGACTTGCA  
GGCCACAAGACCGGCTTGGCAGCGTCGTTGGCTGATGGGAGTAGAAGCC  
ACAGAGAGTCTTCTCTTGGAGGTACAGTCAATTCTGAGGTTTGGGCGTC  
ATAGACTAAACCCAGAAAACAGAACATTGGGAAGTCTTCGGAATATTCTC  
TATCTTCTTACCAACGAGTAAGACGTTTTTGAATAATGGGACTTTACAA  
AGGCCTTGAAGCCAAATTGGTTGAAAAAAGGCCCTAACTGGTGGTTTAAA  
AGGGTCCCTTGGTTATGAAAAAATGAACAGTGCCCCCTTTCAATTTTTG  
GGGGTTAAAGGGGGGGCCCCAAACATTGGAAACCCCTTCCCAAAGAAAAAT  
TCTCCAAAATTTTCTAAAAGGGGGGGGGTTTCTTCTCTGGTAAAAGAAA  
AAGAGAAAAANTCTCCTTAATATATTGTGTGTTTCTCGCCCCAAAAAAG  
ATACCCCCCTTGTGTGAAAAAAGAAAAACAGGGGGGGCCCCGGGGGG  
GGGGTGTCAAAAAAACCCCTGTACACCAAAAATTTTATCTCTCTCTGG  
TGGGAAAACCGGGGGGGCTGATATATAAT

>Sequence 258

TTAGTCGTTTTGAGGCCCGGTGGCGGTGCGGTACACGGGCCACGTGACCG  
ACGCCAACATTGCGGCGCCAGTTGCGTCCACCTGCTTGTCCGAGAGGT  
TCTCATAGAAATTTCTCTTCACTCAATCATATCTACTTACACAAGCA  
GTCAAGCAGTCAACAAAGAAGAAATTTCTTTTTTCGGAGACAAAGAGATA  
TTTACACAGTATAGTTTGGCGGTGTCAGTTTCTTCAAGCTCATCCGGTT  
CCTAAGCACATAAAGAAGCCAGACTATGTGACGACAGGCATTGTACCTGC  
CCG

>Sequence 259

ATGTTATATTCGTCTAATAGCTACATTGAGTCGAATCGTATTATGTTCTG  
ATCTCTTTTATTTATGTATTTATTACATGTATCTATCGTATCTGATTACG  
ATACGATTACGTTTTATCCTATCTCTTNTAATGGTGTATGCCCACCGCG  
GTGGCGGCCGGGGGAGGC

>Sequence 260

GCTCGTTATGTCGTTACTATCTGTGTCTGCATCGTATCGCATTCTCATCT  
ATTATTATCTATTCTCTTGTATCTG

>Sequence 261

TCTATATATCTATCGTTCTATATATTAATTATTTATTTCTTTGTA  
TATCGAATGACTTTAATATTTCTATCTCTTAAATCTATACATCTGTTTCT  
CTTTATATATAGGTAGCGCGTG

>Sequence 262

TTACTCCACACTCTACTCATTTTCTTCAATTTCAATTTCTGTA  
ATAGTATTTACTTATTGTTCTATGTTATGTTATCATCATTATATCATATA  
ATATCTGTTTGATTCAACACCCATTANTTTATTTATTTATTATGTTGTAG  
CCGGGGCGGCCGAGGTACCCGATAGAACATGGCATCATCACCAACTGGGA  
CGACATGGAAAAGATCTGGCACCCTCTTTCTACAATGAGCTTCGTGTTG  
CCCCTGAAGAGCATCCCACCTGCTCACGGAGGCACCCCTGAACCCCAAG  
GCCAACCGGGGAGAAAATGACTCAAATTATGTTTGAGACTTTCAATGTCCC  
AGCCATGTATGTGGCTATCCAGGCGGTGCTGTCTCTCTATGCCTCTGGAC  
GCACAACTGGCATCGTGCTGGACTCTGGAGATGGTGTACCCACAATGTC  
CCCATCTATTAGGGCTATGCCTTGCCCATGCCATCATGCGTCTGGATCT  
GGCTGGCCGAGATCTCACTGACTACCTCATGAAGATCTGACTGAGCGTG  
GCTATTCTTCTGTTACTACTGCTGAGCGTGAGATTGGTCTGGGACATCAAG  
GAAAACTGTGTTATGTAACCTCTGGACTTTGAAAATGAGATGGCCCCCTGC

Table 2

CGGATCCTCATACTCCCTTGAGAAGAGTTACTAGTTG

>Sequence 263

AGGTACTTTTTTTTTTTTTTTTTTTTTTGCAGCCGTTTTTCTTACTAGAA  
GCTAGGCGGAAAGAGGTGTTACTCAGATTTCTTGAACCTTGAGACGTCAAA  
GGTGAGACGCCAGCCAAGGAGAAGGGATGGTCAGGGACCTGCCCCG

>Sequence 264

NGCGTTCGGAGCACTACGCGNGGCGCTGCGGGGAAGACGGGNGACGNGC  
GGATCTTCTTCTTTTTGGGGCAATGNACGTTTAATAATGCGTNCCCGG  
CTNNAAAGCCTTCGC

>Sequence 265

CCGGGCTACCGCGGGGTGGAAACCTCTTCAGCANNGCTNGGTTCANNG  
AGCTATNANACAANCAACCGGGACCCAGCTTTTCAGAACTGCAGGGTAA  
CAGCCATCATGAGTGAGGTACCAAGAATTCCCTGGAGAAAACTCTCCA  
CAGCTGAAATGCCATTTACCTGGAACCTATTCAAGGAAGACTGNGNCTT  
TTTTATCGAGTGGATAGAGNGCGCAACCAGGTTGAATTTTAAACACTG  
AGTTCAAAGCTGGCCATGTACCT

>Sequence 266

GCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTCTAGGTATTGC  
TGGGCAAGATCCTTGTGGAGTCTCTCTTTTGTGCCCCACTCAGAGG  
ATAGGCAGAGCAGACTGGCAGACACAACAGCACAAAGGAATGCAAGATGCA  
TCATTCTCACTGCCCTTACCTTCTTTGTCTACTGGGCTTCTCCCCGCGTA  
CCTGCCCGGGCGGNCGNTCNGAGCCGCGGGCAGGTACTACCTTCACCAA  
CTTTTTCATTTGGGCATCACAAAGACGAGTCTTCTGATGTTCTATAAGCA  
ATATGTTTATATGAAAGTCAGAAGTTTAGCGAAAAATTCGGCCTAAACAGT  
AATAAATGAAAAATGGAATGGAATCAAAGTTCTTAAATAGAACAGAAGGC  
TGGGCACGGGGGCTCACGCCTGTAATCCAGCACTTTGGGAGGCCAGATG  
GCCGATCACGAGGTCAAGAAATCGAGACCATCTGACTAACACGGTGAA  
ACCCCGTCTCTACTAAAAATACAAAAAAATTTGCGCGGGCGTGAGTCC  
GGCCCCCTGGAGTCCAGCTACTCAAGAGGCTTGAGCAAGAAAAATGGCGT  
GACCCCGGAGGAGAGCTTGTAGGAGCCCGGATCCGTTCTCTGCACTTCA  
ACCTTGGGCGACTGACAAGGCCTTTGCGCAAAAAAAAAAAAT

>Sequence 267

AGGTACTTTACCTCATTTCTACCAATCATTTTAAGAGAATTTGGTTGTA  
TTTCAAAGAACAAAACAACAATTTCTGTCTGCTGTTTATTTTAGCGT  
GGTCGCGGCCGAGGTACGGATACAAATTCCGCTGAGTTAGATTCCAAATC  
TAACCTCTCCATCACACGCCCCAGAAAGGACAGTAGCCAGCTTCTCTGGA  
TGCTTTGCCAAGCAATTGACTCCATCACGGTGACCATCCAGCGAAGCAAG  
GAATGGTTTTGCAAACTACTCGTTCAGTTTGGTAGCATTTAAAGCTCTTA  
TATATTCTCGTGGGACCTCAAAGGATGTAAGCAGGATCATAGTTTCTT  
GGAACCTCTGTAAAGTCCAACCTTGGTTTCGCGGACATAATTGTCCGGATT  
CCGGCTCAGCATCTTCACCTTCATCTCGGTTGCTCTTC

>Sequence 268

AGGTACATTTATATGAAAGTCCTCACTTTTCAAGACAGAAAAGGAGTAAC  
TAGATGGGCATTTTCTATACCAGCTAAGGCTTTAAACATAACAACGTCTA  
CTGAACTATTTTCTACTTACTTTGACTGAATAAGCCAGTGAGATCGTGAC  
TGCAAGTGGAAGACCTTCTGGCACTGCGACCACTAAACTGTAACTCCAA  
TAATGAAGAACTTCACAAAGTATTGTATATAAATTGGTGTGCACTCAGCA  
AGCCATGGTCTTTTCTGAACCCAGAAGGTGTCAATGACAAAAATATAATAC  
TAGAATGATAACTGTGATGGCAGGCATCAACAGACCTTTTCAGAATAGAAA  
TGAAAGAAAAATGTGATTATTAATTTCCAGACACTAACCTTGACAGAT  
ATAAATTAACACTGTAAAGAGTTATAACTTGCTTGATAGTATTGAATTT  
CTCTGAGAAATTACTTCTTTCTTGACACCTTATAACTTGACATTGTGAGAT  
TTAATTTTTTGCTTAAGGCNCGCGCCCGG

>Sequence 269

AGGTACGCGGGATAGTGGAGGCACTGAAAGACCAGCAGAGGCATAAGGTT  
CGGGAAGAGGTTGTTACCGTGGGCAACTCTGTCAACGAAGGCTTGAACCA

Table 2

ACCTCGAGCGGGCCCGGGCAGGTACAGATGCACAGGAGGCCATAGGGT  
TTAGGCAAAGGGGAGCACAAAAGTTGAAGATGAGGCGCTGCCACCAATGC  
TGGGACTTCAGGCCAGGGGCAGGAGCTGAGGAAGCCACAAGGGAGGACAT  
TTTCTGCAGTTGCTGAACCACTAGCAACCAGGTCTTGAGAAAGCCCTCTC  
TTGTGGAAGAATAACAGCCAGGAGGAAAAAGCTTTTCATTCTGCAAAGCTG  
GGGCAGAAAGTTCTTCTTTGAATCCCGCGTACCT

>Sequence 270

NGCGATAGGAGCACTCCGCGNGGCGGCTGCAGAGACGCTTTCGGC

>Sequence 271

GCGCTAGNGCNACCCGCGCNGGCGGCTGGCAGTTGATCGACGACAGCCGG  
GAGGCGNNAGCGAAGGAAGAGACCTTCNGAGNCNGAATAAACTCNAGCGC  
CCCCACGNACCN

>Sequence 272

TTGGAGCTCCACCGCNNGGTGGCGGCCGAAGTCCACAGTTAGCTGCAGC  
AAAACGCAGGCTGCCTCAGGGAAAGGAGCCTGGGTTGATTAACCTTGTGTG  
TCAATGTCCCACCCGTCAGGTAACATTTTGCCCCCTGAGGTCCGGGGT  
AATTTAATGGCTGCTGGACAAAACCTCCAAAGTTCTGAAAGATCAGAAAT  
GATAGCTACCTGGAGTCCAGCTGTACGGCACTTGGCGTAAAGCCGCTTCC  
CTCAAGAGTAACTACAATCTTCCCATGCACAAGATGATTAATACAGATCT  
TAGCAGAATCTTGAAGGCCAGAGATCCAAAGAGCCCTTCGAGCACCAC  
GCAAGAAGATCCATCGCAGAGTCCTAAAGAAGAACCCACTGAAAAAATTG  
AGAATCATGTTGAAGCTAAACCCATATGCAAAGACCATGCGCCGGAACAC  
CATTCTTCGCCAGGCCAGGAATCACAAGCTCCGGGTGGATAAGGCAGCTG  
CTGCAGCAGCGGCACTACAAGCCAAATCAGATGAAAAGGCGGCGGTTGCA  
GGCAAGAAGCCTGTGGTAGGTATAAAGGGAAGAAGGCTGCTTGTGGTGT  
AACAAGCAAAAGAAGCCTCTGGTGGGAAAAAAGGCAGCAGCTACCAAAAA  
ACCAGCCCCTGAAAAAAGCCTGCAGAGAAAAACCTACTAC

>Sequence 273

GCGGATTAGGAGCTACTACCGCGCGNNGGCGGCTTANANGACCTGTACNG  
GCTTCGAGCCCGCGNCCCAGNCNGGGCGAANGANTTTTNGGCGGGTTGAG  
GCGAGGCACCTCCCTGCCCC

>Sequence 274

GCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCGCGTCGATGCTATG  
CGCTCAGTTCTAGTCAGAATAATCTTGCTCATCCTCCAGCTCCCCCTGTT  
CCACCAAGGCAGAAATCAAGCCCTCATCTGCCAAAACCTACCACCAAGAC  
TTACAAACGGGAGCTTTTCGACCCCCCATTTGTACGCGGGGGAGGAGCCTG  
AGGAAGAGGGCGGCGACGGTGGTGGTGAAGTGAAGCGGAGCCCCGTGACAGG  
ATGTTGGTGTGTTGATTAGGAGATCTGCACATCCCACACCGGTGCAACAG  
TTTGCCAGCTAAATTCANAAAACCTCCTGGTGCCAGGAAAAAATTCAGCACA  
TTCTCTGCACAGGAAACCTTTGCACCAAAAGAGATTATGACTATCTCAAG  
ACTCTGGCTGGTGAATGTTAATATTGTGAGAG

>Sequence 275

ACCTTATTCCCATTCCTTGGTACACATAACTCTCTTTGAATACGTCAGAA  
CAGGCTCCGCGGAACCGACTACAACGTCATTTTAAAAGGGGAAATAACTG  
TTTTATCCCCCAATAAAGTGGAAGAACTCACGCGAACAACCTGTTATCTC  
AAAATGCCACCCAAAACCCCCATGAACCCTTAAAAAAAAGGCCCCCCCCA  
GTTTTCCA

>Sequence 276

AGGTACGTTCTATTCTGCTCCTATTAGGTCTTCTACCGCACCGGCCC  
TCGGTCGATTACGCCTCTCCAGTTCTGCTGGGGACGTTCTAGCCTCGCCC  
CACGCGCGTCGATCTTTATGTTATACCGTCACTCCAGTGCCCTAATGGA  
ACTATCCCTCCACTCACTCCCCCTGGTTCTACCCCGGCTCCAAGAGCCTC  
TCCCGGNNNCCACTAATTTATTCCCAAATTCTAGGGCCCCGGCCCCATCAG  
NCCCTCCTCCGCGTACCCTGCCTCGG

>Sequence 277

AGGTACGCGGNGGAGCGGGCCCTACCGTGTGCGCAGAAAGTGAGGCGCT

Table 2

TGCCTTCAGCTTGTGGGAAATCCCGAAGATGGCCAAAGACAACCTGAGCTG  
TTCGGTGCTTCCAGGGCCTGCTGATTTTGGAAATGTGATTATTGGTTGT  
TGCGGCATTGCCCTACTGCGGAGGTGCATTCTTCTTTGTATCTTGACCAA  
CACAGGCCCTTACCCACTTGCTTGAAGCCACCGACAACGATGACATCTAT  
GGGGCTGCCTGGATCGGCATATTTGGGGGCATCTGCCTCTTCTGCCTGTC  
TGTTCTAGGCATTGGAAGCCATCATGAAGTTCAGCAGGAAAAATCTTCT  
GGCGTATTTTCAATTTGAAGTTTATAGTATTATGCCCTTTGAAAGTGGCAT  
TTTTGTATTACAGGATTCACCCCCACCCAGACTTTTTTCAACTCCAATT  
TTTTCTGAAACAAATGTAGAAAAGGGACCTGGCCCGGGCGGGTTCGGTTC  
TAGAAATAAGGGGAATCCCCCTGGGCTGGAGGAATTTCAATTTCAAGGCT  
TTTTAATCCCGGCTCACCTTCTGGGGGGTGGCCCGGGTCCCAATTTT  
TTGTTCTCTTTTAAAGGAGGGGGTAAATTGCGCCCGCTTTGCCGAAAAAC  
ATGAGTTATACGGTTGTTTCTCTGTGGGTAAAATTGTGATTTCACTTTTA  
AATGTTTCCGACATGACATATTCAAGCGACGCCCGCGC

>Sequence 278

GCGTTTGGAGCTCCCCGCGGTGGCGTTCGCCCCGGGCAGCTACTTTTCATCC  
ATAAAGGCCTGCAGCTGTTTCATTGATCCTTGACGTTTCATCCATCACAA  
CTCCATACAGTCAAAGACTTTGCTCTGGTTCTGTAATATTTTCTGGTAGT  
CAGGTTTTGTATTAAAGAACTTCACTTCTGAGAAGACCCAAGATATGTCATA  
GGTTCCACTTTGACCTCAGTAATTTTGGCCTCAGTTGATCCTCTGGACAA  
TATCTCTTTAGCCTCCTGCTGGTAGTGAGGCAAGAGCTGATCCCAAGTCT  
GACGTTCTAAAGAAAACCTTTGTTATGTATTCCTTCATCTCAGCCACAGAT  
GCTTCCAAAGAAAAATCTGATGCTTTTCCATTTGAATCTTCAAAACATTT  
TTGTAGAGTTCCATCAGTTTCCAGTCCGTCTGCANAATGTTTCAATTCTT  
CAGAAAGAGAAGATGCTTTGGCTCTAAAACCTTTCAAGACTGAAGCCCTTA  
GTGTCCCTTAGGAAAGGTTCAAGTTTCTGAATAGAGAACTGGAAACTGGG  
AAGCAGGAGACAGCCAAGCCGTTTGCTTTCTGCTAAATCGACACTGATAG  
ACCGGCTGCTGTGATGCCCTGGTGAATGGGATGCAGCGACTTCCGC  
CGGTTCTGTTCTTTCACTTGCTCGCCGCCGGGATTGCCTNCTGGCTTG  
ATACT

>Sequence 279

GCCTTAGGAGCACCACGCGGTGGCCTCCGAGGTACTACTCTGCACTGTTT  
TTTCTTTCTAATAAAACTTTCCCTGTGCGAACCTATACTAGTCTTCTGTAA  
ATTCTTCTTACTACCCTATGACCCGTGAGCCAACCACTTTCCGATGCCAG  
GGTTCTGACACCTCACCTGGCATAATATAAAGTGTTTTTTTTTTTATACC  
CTTCCACTTGGAAGACTACAGAGGAATCTTGCTCTGCATAGTTCAAAC  
AAAAAGAGAAGAGTTAATTACCTGAAAAGCAAGAGAAAAACAAGAAGGGGT  
AAATTTTGAACCAAGGGAAATCATTTAAGAAGTGCTGGTATTTTCAAA  
TTTCTGTGAGTTGTTACATTTGTCATAAGTAAATGTTTAGGAATAAAGGA  
TGGAGACATGCTTATTTTATTTAACTCCCCCAAAATTNAAAAAAAAAAAAA  
AAAAAAAAAAAAAAAAAGTACCTGCCCGGGCGGCCGCTCGA

>Sequence 280

TGCGGTGACTCCCGCGGTGGCGGCCGGAGTGATGCCATCTGCAGTTTGT  
GATCTGCAATGATTCTTCCCTTCGAGGTGAGCCATTATCTTTAATCCTG  
ACTTTTTTGTGGAGAACTCCGACATGAGAAACCTGAGATTTTCACTGAG  
TTGGTGGTCAGCAATATCACAAGGCTCATCGATTTACCTGGAAGTGAAGT  
GGCTCAGCTGATGGGGGAAGTGACCTTAAGTTGCCTGGCGGGGCTGGCC  
CAGCATCAGGATTTCTCCGGTCTCTCATGTCTCTCAAGCGAAAGGAAAAA  
GGAGTGATACTTGGGTCCCCACTGACGGAGGAAGGCATTGCCAGATATA  
CCAACCTGATTGAGTATCTACACAAAAACTTGCAGTAGAGGGTTTGTAA  
GAGTACCT

>Sequence 281

TATGTGGTCAACGGGGTGGCGAGGTACGCGGGGGGAGACATGTGGAGTCC  
CAGCAGAGGCCAACCTGTGTCTCTTCTCATCTCCCTGGGAAGGGTGCCCCG  
AAGTGAAAGAGATGGCCTGGTGGAAAGCCTGGGAGAATGAATAAACAGAC  
TAGGTTGAATCCATACAATGGAATGGTAGCAGACAATAAAAGAAAAATGA

Table 2

ACTATTGATGCCCCCTACTGCACAGCAGAAGCTCTGAATCGTGTTCTGA  
ATGAAAGAAGTCAGAGATGAAAAGATGGGCCAGGAGTCCAGTTTCTGGAA  
GGCCAAGAATCGAAGTAGCAAGCTGCAGCCGTTTTCCAGACAAGCATGAT  
GTGGGGATGCAGAAGAATTGAGGACTGGAGGGGCAAACCTCCGATGTGACT  
GAGGCCCACTGCCAAATGGCGGCATGCTCAGATAGCACCCAAGAATTTG  
GGGAAAAAACTGGTGCTCACAGCTGCCAGTTAAGC

>Sequence 282

ATTATATTTCTACTGCTCAGTATAACGTAAGTGAACGACAGGTGTACCAG  
TCTGCATCTCTTTTCGTGCGCTAATCGTCTCGACGCGTAGGCAACGTATA  
CGAGACTATAGTTTTCTTTCTTATCTACTTCTATTCTTACTATATATA  
TTTATCCNTTCTTGCGGATCGACTCACCGCGGCTGGCTGGCCCCGAGGAT  
ACCTATGTTCCACTGCTCAGCAGTGTCTCGTAGTACGACTCGATGTATGTC  
AGGCACGAGACAGACCCTCTTCCACTTGTCTGTTGTTGTTGCCACTTCCG  
CGCAGGATATTTCTGATAGGATGCGTCTCTCTCAGATCAACACGGTAG  
GCAACGTTCTTTCGCTGGTACCTTTTCCACCTTTCCCTTTTCCCAATTCT  
GGCATTAAACACCGGTTCCACCCAACCCTGGCACTTAAGGGCTTGTGAGAC  
TTCAACCCCAACCTTCCAGGCCTCCCCATTGGGGTCTCTCCTTGCCACCTT  
CATTTGGGTTCTGTTGGGATACCAGAGTTGGAACAAGGGGGGCCAGGAATCA  
AAGCCTGTTCCCTTTTCAACCCCACTCAATTGGGCTCAAGGGGAATGTGT  
GTCCCTCCAGTAAGGGGGTTCCCCAAAGGCCAACAAGGAAAAAATCTTG  
CAAGCCTTTGAAGCTGGAAGTGGCCACTTGTATGCCTAAGGCTTGGAAAA  
AGCCACATAAAAGGGGAGGGGGCTAGGAACCAACCGCAAAAAAGGTTTTG  
GATGGCCAAGAAAAAGAGGGAAAGGGGGCTCCAGTGAATATAACCCCTCT  
GGGCGCAATTCTNTTTTCCAATTTTCCCAATTTGGCCTTGGCCCATTA  
TTTCCAGGGGCGAAGGATTTAACCTCTGGGTAAAAGGGTGTGGNGNNNGG  
GGGCCAAGNAACCAACCTTTATTGGACACCCTGGTGGAAAAGAGAAGCCC  
TCTATTAAGAAAAATTTCCCCAAAAATTGGGGAAN

>Sequence 283

AGTTGTGACAGATTATATTGAATGTTGTCTTCAACGATATAATTTACTT  
CATCAATATTCTAATAATTACATGCTAATATGATATTTATATAATAAATA  
TAGCTAATGAATAACGTAAGTGTCTATTTTCTCTAGAGAGCTATCGGGAG  
GCGGTCGAGTACAGCATTGGAAATGGATCTGTCTTTGGTAAAGATCAGCC  
TATAATTTCTGTGCTGTTGGATATCACCCCATGATGGGTGTCTGGACG  
GTGTCTTAATGGAACTGCAAGACTGTGTCTTCCCTCTCTGAAAGAATGC  
ATTTCGACCAATAAAGAAGACGTTGCCCTTCAAAGACCTGGATGTGGC  
CATCTTGTGGGCTTCCATGCCAAGAAGGGAAGGCATGGAGAGAAAAGAT  
TTACTGAAAGCAAAATGTGAAAATCTTCAAATCCCAGGGTGCATGCCTTA  
GATAAATACGCCAAGAAGTCAGTTAAGGTTATTGTTGTGGGTTAATCCAG  
CCCATACCAACTGCCTGACTGCTTCCAAGTCAGCTTCATCCATCCCCAAG  
GAGAACTTTAGTTGCTTGACTTCGTTGGATCACAACCGAGCTAAAGCTCA  
AATTGCTCTTAAACTTGGTGTGACTGCTAATGAAGTA

>Sequence 284

TCACATCTCAATCTTGTGATTATGTAGATTCTTTACACTTCGTATCATCA  
CTCTTTACATATATTACCGAATGTGATATCAATGTACTACATAGTTCCCT  
CATATATATATAATTTTTTCAATAATTTAGAGTGACTCCCGTGCGGGCCG  
CGGGCAGGTACGCGGGGGCTCTAAGCTGCAGCAAGAGAACTGTGTGTGA  
GGGGAAGAGGCCTGTTTCGCTGTCGGGTCTCTAGTTCTTGCACGCTCTTT  
AAGAGTCTGCACTGGAGGAACTCCTGCCATTACCAGCCTCCTTTCTTGCC  
AAAGGGAGGGGGGAAACATACATTTATTCATGCCAGTCTGTTGCATGCAGG  
CTTTATGGCTTCTACCTTGCAACAAAATAATTGCACCAACTCCTTAGTG  
CCGATTCCGCCCCCAGAGAGACCTGGAGCCACAGAGCTTTTTTGCTTGC  
ATTGTAGGAGAGGGGACTAAGTGCTAGAGACTATGTCCGCTTTCCTGAGCT  
ACCGAGAGCGCCCGTGAAGTGAATCAACTGCTTCAGAAGATGTACCCTA  
AGGCAAACAGGGTTCCCTTGGCCGTTAAAACTAGGGGATCCCCCGGCTTG  
CACGAATTCATATCAACTTATCG

>Sequence 285

Table 2

CGTGTTCGCGGTGGCGGCCGAGGTAAGTCCCAAATGTTTCAACCGAT  
TTTACCCTATGTTTTCAAGGGTATTATAGAAGGGGAGAGGTATCCTGTAG  
TGATGTCCACGTATCTTGGAGTTATGGGTCGAGTTCTACTACAAAACACT  
AGTTTTTTTCTTCACTTACTAAATGAGATGGCCATAAAATTTAATCAGGA  
GATGGACCAGCTTTTGGGAAATATGATTGAAATGTGGGTTGATCGAATGG  
ACAACATTACCCAGCCTGAAAGAAGAAAACCTTCAGCTTTGGCTTTGCTC  
TCTCTTCTGCCATCTGATAATAGTGTATCCAAGATAAAATCTGTGGGAT  
TATAAACATTTTAAAGTAGAAGGCCTGCATGATGTCATGACGGAAGATCC  
TGAAACAGGAACCTATAAAGACTGTATGTTGATGGCTCATCTTGAGGAAC  
CAAAAGTAACAGAAGATGAAGAACCACCCACAGAACAAGATAAGAGG

>Sequence 286

GTCCTACACCACTGGATTACTATGAATTATACTTTAATCCTAGATTTTTTC  
TGTTTTGATTCTCAATAGATGATGTCTCTGAGTTGATTTGAAATATCAAT  
ATATATGTATTTACTATATGTTGTATATATNATNTANTAGAGAGACGCGG  
GTGGCGGCCGAGGTACCCGATAGAACATGGCATCATCACCACCTGGGACG  
ACATGGAAAAGATCTGGCACCCTCTTCTACAATGAGCTTCGTGTTGCC  
CCTGAAGAGCATCCCACCCTGCTCACGGAGGCACCCCTGAACCCCAAGGC  
CCACCCGGGAGGAAAATGAACTTCAAATTAATGTTTTGAAGAACTTTCAA  
ATGTCCCCAGCCCATGGTATGGTGGCCTATCCCAGGCCGTTGCCTGTCC  
TCCTCTAATGGCCTCTGGACCGCACCAAACCTGGCCATCTGTGCTTGGGAC  
CTCTTGGAAGAATGGGTGGTCACCCCAACAAATGGTCCCCATTCTATTG  
AAGGGGGCTATTGTCTTTGCTCCCCATGGCCCATTCATGGCGGTTCTG  
GGGATCCTGGGGCTGGGCCCCGAAGAATCTTCAACTGGAACACNCTTCAT  
GAAAAGATTCCCTTGACTGTAAGCGTGGGCCTATTTCCCTTTTCGGATAACT  
AACCTGCTGGAAGCGGTGAAGAATTGGTCCCGGAACATTCAAAGGGAGA  
AAACCTGGGGTTTAATGGTAAGCTTCTGGGACTTTTGAAAAAAG

>Sequence 287

GATGTGAGCTCCCCGCGGTGGCGGCCGAAAACCTGATCAGACTGTCTCAGA  
TCAAGGAAAAGATGGCCAGAGAGAAGCTGGAAGAAATAGATTGGGTGACA  
TTTGGGGTTATATTGAAGAAGGTTACGCCACAGAGTGTGAATAGTGAAA  
AACCTTCAGCATATGGAACTGAATGATCTTCGTGACCTGACACAATGTG  
TGTCTTGTCTTATTGGGAGAAGTTCACATAGCGCTCTGGAAGACGGAT  
CACGGGACTGTGATGGATCCTCAATGCCAACCCCATGAAGCCCAAGGA  
TGGTTTCAGAGGAGGTGTTTATCTATCGATCATCCTCAGAAGGTCTTAA  
TTATGGGTGAAGCTCTTGACCTGGGAACCTGTAAAGCCAAGAAGAAGAT  
GGAGAGCCGTGCACGCAGACTGTGAATTTGCGTGACTGTGAGTACCT

>Sequence 288

GTGATGACCCGCGCGCGCGAGGTCCCTGTACTCCAGGGCACTGGCGG

>Sequence 289

GAGATGCTATGAGGTGGCGGCCGATGACCGTCATTGTGATGGACAGACTG  
GCTCAGTGAAGACATTTACTTTGATGGGACCAGATAGAATCCGATAATTT  
TTCTCATAACCTGAGAGGAGTTATCCCACGAAGTTTTGAATTTTTGTTTT  
CCTTAATTGATCGTGAAAAAGAAAAGGCTGGAGCTGGAAAGAGTTTCCTT  
TGTAAGTGTTCTTTATTGAAATCTATAACGAGCAGATATATGATCTACT  
GGACTCTGCATCGGCTGGACTGTACTTGGCCCGGNATTTTGAAAAATGGG  
GGACCATTAAGCATAAAAGGCATTTGGGGCCTGGGGGACAATGATTTA  
TACTTTCCACGATTTAGCATCTCTAGCCCACCTTAAATAAACTGTGCGA  
CCTCACTTTTGGACAGCCAAGAGCTTACGATTAGTACCTCCCGGAAACCC  
CTACTATACAGCGCGGTGGGCACCCTAAAGGATGGTATTATTGACCGAA  
ATTGGGGGGCTGCATCCCATATTGATCTTCAATCTATTCTG

>Sequence 290

ATCTATACAATACATATTATAAATAAATGGTGTATATATATTGTTATTAT  
AACATATTATAATTTTTTTTGATAATCTAATTGATAGAGTTATCAAAAAT  
ATATATCTTAATTTATTTAATCTATACTATTATATTAAAGATACTCCGGG  
TGGCGGCCCGCCGGGCAGGTACGTCGGGGCTCCGTAGGAAGCCTCATCTC  
CCTAACTAGCTGCTTACACAAAGAACTCCTTGAGAACTTGAACCTTGCCA



Table 2

GGGAACTAAAAACCCATTGAAAAGAAGGCTCTGAATCCCTTTTCTTTGCA  
CTATCTCTTGGCCCTGACCTTTAGACGGGATATGATAAACCTATCTGGTG  
TCTTAATGGAAAATCAACCAATCGAAAAAGGCCATTGGGAAAATTCTTTT  
AATAGAAAACCTATAATTTCCCCTTTTCTATTTAAAAACCAGGGAAGGAAA  
TATGTCAAAAAATCCCCCTTTTATTACTCCCCCTCTACAATCCAAAAT  
GGATGGGGGAAGATCTCTTTAAACCGTTCTCAAAAAAAGTAGGGTGATC  
AAAATAAGAAAACCTGTCAATTCTAAAAGGCTCTTTGGTCCCCAACCAAAT  
GTCTTTAAAAATGATGGAGTAACCTCTCCCTTTGTTAGATTTATACTATTT  
TCAGAAAGATATTTTTTGTTCGAAAAAACCCGTCTTAACCCACCCACAAA  
TTGGGGTTTTATATATTGGGGAAATAAACCAAAAAATGGGCTTGGACCTAT  
ATTATAAATTCGGATTTTCCCTTTTCTAAAGGGGAAAAAAGCCCCCTCC  
CATGAGGGTGGCACACCCACAATTTTATATACATCCTTGAGAGGGGGAA  
AAAAAAGAAAAAAGAAACTTTTTTTTTTTTATTATTTATTTTGAGGA  
AGGGGGTGGGCCCCACCCACCTTAATAATTTGGTGTCTCCCCCTCAC  
TGTTTAAATCATCTATATATTATAAAT

>Sequence 291

TGAGACTGACTCCGGGTGGCGGCCGCCGGGCAGGTACTTTTTTTTTTTT  
TTTTTTTTTGGGGGAGTTAAATAAAATAAGCATGTCTCCATCCTTTATTCC  
TAAACATTTACTTATGACAAATGTAACAACTGACAGAAATTTGAAAAATA  
CCAGACACTTCTTAAATGATTTCCCTTGGGTCAAAATTTACCCCTTCTTG  
TTTTCTCTTGCTTTTCAGGTAATTAACCTCTCTCTTTTAGTTTGAACATA  
TGCAAGTCAAGATTCCCTCTGTAGTCTTTCCAAGTGAAGGGTATAAAAAA  
AAACACTTTTATATTATGCCAGGTGAGGTGTCAGAACCTGGCATCGGAAA  
GTGGTTGGCTCACGGGTCTAGGGTAGTAAGAAGAATTTTACAGAAGACA  
GTCTAGGTTTCGAAAAAGAAAGTTTTATTTGAAAGAAAGAACCGTGCCAAA  
ATAGTTCTCATTCCAGAATGGGAGAAAGGGCTTCTCATAGATCATTCCG

>Sequence 292

TTGATGCTCCGGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTT  
TTTTTGCTTGTTTTTATCTTTTGGCCTTTTGGTGACTTGGTGCTCCTGG  
AGTCACTGGAGTTCTACTTTGAATCCCACTCTGACATCAATCGACTGCCT  
TAATTCCTGGTCCAGCTGCCCGACCCTGACTCTCTCCCGCTC

>Sequence 293

GAAAGTGGCTCCCGGTGGCGGCCGCCGGGCAGGACGCGGGGACATTGAG  
TGGGGATTAAAGAGAAGGAAGGCTGCCTTGCTGGAGCTGTGTGGTCTTCTC  
CAAGTGAGAGTCGCAGGCAATAGAACTACTTTGCTTTTGGAGGAAAAGGA  
GGAATTCATTTTAGCAAACACAAGAAAAGCAGTTTTTTTTTCAGGTGCTG  
ACGGCCACCCACCATCATCTAAAGAAGATAAACTTGGCAAATGACATGCA  
CGTTCTTCAAGGCAGAATAATTGCAGAAAATCTTCAAAGGACCCTATCTG  
CAGATGTTCTGAATACCTCTGAGAATAGAGATTGATTATTCAACCAGGAT  
ACCTAATTCAAGAACTCCAGAAATCAGGAGACGGAGACATTTTGTCAGTT  
TTGCAACATTGGACCAAATACAATGAAGTATTCTTGCTGTGCTCTGGTTT  
TGGCTGTCTGGGCACAGAATTGCTGGGAAGCCTCTGTTGACTGTCAAA  
TCCCCGAGGTTCAAGGACGGAT

>Sequence 294

TGAGAGGCTCCCGCGGTGGCGGCCGCCGGGCAGGTACGCGGGAGGCACA  
TTCTTTTCTACGTGAAGAGTTTTGTAACTGAACTTTGTTTTAGTTCCG  
GCTCCAGCCATCCTCGGGTAGCTTGCCAATAGATGAATCCCACTCGTTTG  
ACCCATGACGCTCCTTCTTTGCATTCTACCTCTTTCCCCACAGCAGTGC  
ATGTCCACCATAACCACCTGAGAGTCTGTGGAATCTAATTTTCTGTTATAC  
TTCTTTCTTACACTCAATTTTCTGTCTTTATTATGATAGTCTAACTTTT  
TCTCCTCAAAGGTATAGCTGCCTTGCTTTTCATGAAAACACACTTTCCTAT  
TGTGATTTATCAGAGGCCTTTCCATATCTCAGCCACTATGCTATGACAGA  
TTTTATAATTAAGTGCAATTTCAAAGTGAAAACGTTACAAACATGCTT  
ANCAGATGTTTTTATAACATGAAATATTCTGCTGCGTTAAGAACAAAATG  
CTGACTTACTTGTG

>Sequence 295

TGAGATGACTACCGGGTGGCGGCCGGAAGAGCAACCGAGATGAAGGTGAA  
GATGCTGAGCCGGAATCCGGACAATTATGTCCGCGAAACCAAGTTGGACT  
TACAGAGAGTTCCAAGAACTATGATCCTGCTTTACATCCTTTTGAGGTC  
CCACGAGAATATATAAGAGCTTTAAATGCTACCAAACCTGGAACGAGTATT  
TGCAAAACCATTTCCTTGCTTCGCTGGATGGTCACCGTGATGGAGTCAATT  
GCTTGGCAAAGCATCCAGAGAAGCTGGCTACTGTCTTTCTGGGGCGTGT  
GATGGTAGAGGTTAGAATTTGGAATCTAACTCAGCGGAATTGTATCCGAC  
TCT

>Sequence 296

TGTGACTGGACCGGGTGTGGCGGCCGCGGGCAGGTACGCGGGGGCTCCC  
TTGTGAGTAGACTATGCAAAGAAAAAGTGGGCCACCATATCTGGAAACTA  
CAGTCTATGCTTTGAAGCGCAAAAGGGAATAAACATTTAAAGACTCCCCC  
GGGGACCTGGAGGATGGACTTTTCCATGGTGGCGGAGCAGCAGCTTACA  
ATGAATAATCAGAGACTGGTGCTCTTGGAGAAAACTATAGTTGGCAAATT  
CCCATTAAACCACAATGACTTCAAAAATTTAAAAAATAATGAGCGTCAGCT  
GTGTGAAGTCCTCCAGAATAAGTTTGGCTGTATCTCTACCATGGTCTCTC  
CAGTTCAGGAAGGCAACAGCAAATCTCTGCCAGTGTTAAACAAAAATGCTG  
ACTCCTATGAAAGAATTATGAGTGTGGAAAGATGAACTCACACACACGC  
TGATGAGGCTGTGGAGAAATCCGTCCATGAAAGAAATTTCTCTGGGGGAAG  
GGCTTACCTTGGCACTGCTAGAAT

>Sequence 297

TGCGATCTCGCGGGGTGGCGGCCGCGGGCAGGTACGCGGGGGGAGGG  
TCCGAAGTCTGGTTTTGGGCGGGAATTGAAACCGCCGCTGAAGCCAACA  
AGAATTTGAGAACTGTAATAACCAAGCCTTGAAAGGGACCATGGTGCGGC  
CTGTGAGACATAAGAAGCCAGTCCATTACTCACAGTTTGACCACTCTGAC  
AGTGATGATGATTTTGTCTGCAACTGTCCCTCGGCCGTTCTAGAAACT  
ATGGGATCCCCCGGCCTGAGGGATTCCATTTTAAACCTTTTGGACCCG  
CTACACCCTAGGGGGGGGCGCGCCCCCTTTTGGGCCCTTTTGAGG  
GGGGGTTTTACGCCCCCGGGGAAATAAAATAGGGGTAACCTTTTTTTTTT  
GCGGGAAAAAATTTATCCCCCAAAAAAAGCCCTTTTTTCCCGG  
GGGGAAAAAATAGGATCCCCCGGGGGGGGGGGAATTTTTTTTATTATT  
TTTTTTTTTCCCTTCCCTCCGGGGGGGGGGGGG

>Sequence 298

ACCACACACTTCCATCTCATTATATCATCTGATTGTAATCAATTATGTGA  
TATTACTTATTTATAAATAGTATCGATATACTCTTCTAAATGAATTATGT  
TTTATAGTAATTTAAGTGTTTTATTTACATTCTTAAGCGTTGACTCACGG  
GTGGCGGCCGAGGTACTCCCCAGCAAATATTCTTTGTTGGCTTGCTTGAC  
TAGATGAGCTGCTATAGTAGTCAATCCTGTTAGACTTGGAACATTGTTTG  
TCTGAAGAACTGGAATCTGTCGCTCGCCCTGAGCAC

>Sequence 299

GTTCCATCCATATCTCTATAATTACTATTTCTCACATTTAACGATTTCT  
TACTATCTATTTAAATACTCATATTTATATCTATCTATCTTACTTTTAT  
CTAATTTTATATATTATATCGTTAGCTCCGGGTGGCGGCCGAGGTACTTC  
TGTCTTCCAGTTTCCACTTCAAACCTTCTATCTTCTCCAAATTGTTTCAT  
CCTACCACTCCCAATTAATCTTTCCATTTTCGTCTGCGTTTAGTAAATGC  
GTTAACTAGGCTTTAAATGACGCAATTCTCCCTGCGTCATGGATTTAAGG  
TCTTTTAAATCACCTTCGGTTTAAATCTCTTTTAAAGATCGTCTTCAAAT  
TATTTTAAATCACCTACAACCTTTTAACTAAACTTTAAGCTGTTAAGTCA  
CCTTCATTTTAAATCTAAAAGCATTGCCCTTCTATTGGTATTAATTCGGGG  
CTCTGTAGTCCTTCTCTCAATTTTCTTTTAAATACATTTTACTCCAT  
GAAGAAGCTTCATCTCAACCTCCGTCATGTTTTAGAAACCTTTTATCTTT  
TCTTCTCATGCTACTCTTTTAAATCTTCATATTTCTTAAATCTT  
AAGCTATTA

>Sequence 300

GCGATGTCCGGGGGCGGCAGGTACTTAAGGTTGACTGGTAATCAGGGTAA  
CTTCTGATACTTATCACACAAGATGGTGCCTCAGCATTTAAATAAATGGA

## Table 2

GGTAGGGGAGGGCGTGGTGGTAACATACTTTTAAACCAGCGATTGCACAG  
CAAACCACAAATGCAAGTATTTCTGACTCCCAAGATTGCCGTTTCCTAAAG  
AGCAATTTCTTCTGCAGGCAACAGCAAACCTACCTTTCCTTGCTAACTGCT  
TTCAGTAAATTCTTGATGGCCTTCGATTCTGGATTGAGACATCTCTTCTC  
ACCTTCTTTTTTCATTGTAGCAATGATCTCAACACGTGGACAAAATTGGC  
TTGCAGGAATAATTCAAGTTTTTCTAAAAACCTTGGATTAAACAGGTGGA  
TTACTTATTGCTATGCAGGGTACCTGGCCGGGGGGGCTGTTTCGACACCTG  
GCTAATGGTCTTGACATGGAACCGGGCCTTAAATTTGGCATTIT

>Sequence 301

GCGACTGTGCTCACCGCGGTGGCGGCCGGAGTGATGCCATCTGCAGTTT  
GTGATCTGCAATGATTCTTCCCTTCGAGGTCAGCCATTATCTTTAATCC  
TGACTTTTTTGTGGAGAACTCCGACATGAGAAACCTGAGATTTTCACTG  
AGTTGGTGGTCAGCAATATCACAAGGCTCATCGATTTACCTGGAACCTGAG  
TTGGCTCAGCTGATGGGGGAAGTGGACCTTAAGTTGCCTGGCGGGGCTGG  
CCCAGCATCAGGATTCTTCCGGTCTCTCATGTCTCTCAAGCGAAAGGAAA  
AAGGAGTGATATTTGGGTCCCCACTGACGGAGGAAGGCATTGCCAGATA  
TACCAACTGATTGAGTATCTACACAAAAAATTGCGAGTAGAGGGTTTGT  
TAGAGTACCT

>Sequence 302

GGGATTGGAGCACCACGGNNGCGGTGGGGACCACGGAACCTGCATGNTCA  
GGACCCACAGGAGCGACCCTGAAAGGACCATTATTCGCACAGAGCTGCAA  
ACAATAATATCATGATATAATTTTAGAATGTGTGTACCTGCC

>Sequence 303

GCGGATTTGGAGCNACTCCNGCGNNGCGGCTCGGNNGCTCNTACGGCC  
CCCCANCANGGCGGACCCNNAGAGAAAGGCCCTGNANNGACTACNTTGAA  
TACNNGNNGCCGAACACAAGGAGANCGA

>Sequence 304

TCGCCCAGACTTTCTCTTGTCCATCTTCTCCCCTGCTGAAATTTCAAGT  
GCGGGCGCTGTACCTCAGGACCCCTCCCCCGCTACGCTGGATAGCCT  
CCAGGCCAGAAAGAGAGAGTAGCGCGAGCACAGCTAAGGCCACGGAGCGA  
GACATCTCGGCCGAATGCTGTACGCTTCAGGAATCCCCGCGTACCTGCC  
CG

>Sequence 305

TTCCCGGCAGGTAAGTCTTCTCTGCACTCCAAGTAGGATGAAAA  
GTAAAGAGCAAAGGCTCATGTTTGCCAAGTCTGTCTTTTGTAACAAAAA  
ACCCAGCAGCTTTATCAAGCAGAATTCACCTGTATTTCTTAAGTGGCA  
GAGCTGAGTCTCATGGCCACCCTTAGCAGGAGTTGGGGAGGTATTTTAA  
CAAGGCACATTATCATCTCCCCACCCAAAGTGGAGCTATTGCTAATGAA  
AAAGATACAATGAGATGTTTATGAAATTATCTGTAGCTATTAATGTCAGG  
TTTTTGAAATTTACTGACCTGGAAGAATACTCATAATGCAATGTCAAGTG  
AGAAGCAGGACAAAGAACATTTGCAATACAGTTGTATTTATAAAATTTTG  
TTTACACACAA

>Sequence 306

GCGATTGGAGCTCCCCGCGGTGGCGGCTCGAGTACGCGGGGAGGCAGCGG  
AAAGCTCAGCCCATGTGAGGTGCCTCTGCCAATCACAGACTACCTTCC  
CTGGTCCTGGAGGTTCAAAGAATTGCAGGAGGGTAGAAAAGCACCTGGGT  
CGGGTGCAGACTGCGGAGCGGGCCCTACCGTGTGCGCAGAAAGAGGAGGC  
GCTTGCTTCAGCTTGTGGGAAATCCCGAAGATGGCCAAAGACAACTCAA  
CTGTTTCGTTGCTTCCAGGGCCTGCTGATTTTGGAAATGTGATTATTGGT  
TGTTGCGGCATTGCCCTGACTGCGGAGTGCACTCTTTGTATCTGACCA  
ACACAGCCTCTACCCACTGGCTTGAAGCCACCGACACGATGACATCTATG  
GGGCTGCTGGATCGCATATTTGTGGGCATCTGCCTC

>Sequence 307

TGAGCCCGGCGCCANATCACCATTATTTCCCTTTAGTCACCTCAGAGGCT  
TGTTAATGCTTTCTTTGTAATTAGGCTATATCTGGTATCTGTATAATATC  
TTCAGTTCTTCTTACCAGGGGTCTTACTCTGTTCTGAAACATGGCACCT

## Tabl 2

CAGGCGGCTCCGGCAGCGCTGGACACAGGAACTCCTGGGTCCCCGACTC  
CGGCTCTCCTCTACCCCCTCTTCGGTTAACTCCGCTTGTTTCTCTACAAA  
ATGGCGCCGGAGGTCCCCCGCGTACCT

>Sequence 308

GCGGTTTCGGAGCNAACCNCGCGNGGCGGCCTGGNNGACCANTACNGG  
AAACCAAACGAACGGCNGGCGCACCANGCNGGCNTTANCNNGCCGCCT  
TCANGCNGAGCAGCCCGAAANCNNGGAACCGGCCNCNNGNNGTTCCNN  
GNNGAAGAACGGGCNNANCCCCAGAGAGAGCCAAAGNNACCCGCGCCGC  
NCNAAGAACAAGCGGANCCCCCGGGCCGGCAGGAACNGCGANAACACA  
GGCCCAANCTTTTCTTTTTTTTTTGTGTTGGGGGGGCGCGGNACCCC  
CAGCNAAAAAGAACCACAANAAGCCGAGGGGNNGAAGGGGAGCAGCNCNN  
GGCGNAAANCATTGGNCAANAGCNNGCCNCCNGGNGANGAAANNNGCNA  
CNCCGCGNCACAANNCCACACNAACANNACGCAGCCGGGAGCANNAAAG  
NGNAGAAGCCCGGGGGCGGCCCAAGGAGGGGAGCNAACNCACANNNA  
NNNNGCGNG

>Sequence 309

GCGTTTGGAGCACACCGCGGNGGCGTTCGAGTACTTACGAACATNCNNAN  
ATGGNNACCTTCTAAAAATGTTACACAGAAGAATAAAGGCNACCAACCG  
CTCNNNATNATCGAGNGCCAGAAACCTTTTACAAGATGGTAAAAA  
ACAGAAAAAAGAAAAAACAACCAAAAAAACAACCTTTACAACC  
ACAGCTAATGCAATTTTTTCCATTGTTCCCATTTTTTCCAAACCTATTG  
GGNGCAAAGCCCATTTTTTCCATGCATCTAAATGATAGATACAGGCTAT  
GAAATTCCTTATTCTATTTGTAGCAGCTTATGCAGGTGCAGCCAAACACA  
AAGCTTCAGGACAAATTGTACCTGCCCGGGCGGCGCTCT

>Sequence 310

GGCGTTANGNGNCNACTNCGCGNNGGCGACTCGANGNCNGCATCTAAGC  
ACGCNACCGNGGACAAGAGCAGGNGGCCCTAGNNNGACNGTNTTATGCT  
GCNCCGCGANGCAGGNCNGCACAACCACNACATGCAGAAGAGCCCG  
GCCCCGCCCCGGGAAAAAGAGNGCGA

>Sequence 311

GCGCTTTGGAGCNACANCGNCGGNGGCGGCTGNNGCNCGGTACTCNGAG  
GAAAAGCNCGCACAGGNGGACGCGGACCGTTAGCAGNGGTTTAGGCACC  
CCAACAAGCCGCGGGGCAAAAGGNCNCNCGNATTT

>Sequence 312

GCGCTCGGAGCTACACCGCGGTGGCGCTGCCGCGCCAGACTCTTGGAGAA  
AGTATAGCAGCAAAACAATGCCTATTTTCACAGGAAACAGAACACATACCC  
AGAAAAATGCCCTGGCAATCATCAAATCACAGTTTTCCAACATCAATAAA  
GTGTTAACTCCTCATTTGAAAGATGGTGTTCTGGATTGAATATTGAAG  
AATTAATAGAGAACTTCAGTCTGGAATGGAGGTATGGATCAGATTTGT  
GATGTGAGAATATCTGACATAATGGATGTATATGAAATGAACTATCCAC  
ATTAGCTTCCAAAGAAAGCAGGCTACAAGATCTTTTGGAAACAAAACTC  
TAGCCCTTGACAGGCTGATAGACTGATTGCTCAGCATCGCTGTCAAAGA  
ACTCAAGC

>Sequence 313

AGCGATTGGAGCTCCCCGCGGTGGCGGCTTCCCGGGCAGGCACCTTAGCA  
TTAGATTGAGTTATGTTGCTAGGAGATGTTTATTCATCAGCTGATCATT  
AGCATATGGGGCTTACTTGGCCCCCTATCAATTTGCGTCAAAATAAATT  
AATTGTAGACCTGTCTTGTGTTTATGAAAAAGCAATGTGATAGTCTTTAA  
TTTATCTTTCTAAACAAGACACAAGTTTACACATTACCCAGCACAGTAAC  
CCCTCTTGGTATTGTTTACCTAAAAGGAAGAGTGTAGGAAAACTGATA  
TAAGTAGAGAGTTTATTTGGGCCAAGCATGAGGGTTACAACCCAAGTGA  
TGGAGACAAGTTGTCCTGAACAATACACATTCTATTAGCAACAGTTATA  
AGTAGGTTTTCAAAGAAAAAGAAGA

>Sequence 314

GGCGATTGGAGCTCCACCGCGGTGGNCGGTGAGGTACGCGGGGGTCTCT  
GGAGGTTCAAAGAATTGCAGGAGGGTTTAAAGCACCTGGGTGCGGTGCAG

Table 2

ACTGCGGAGCGGGCCCTACCGTGTGCGCAGAAAGAGGAGGCGCTCAGGAA  
TGCATGAATTGATTAATTAATGTGCGAGAGCTGTAGATGGCTTTTCTCAA  
GGTGCTTCAAGTGCAGAAGCCCAAGTGATTGACCCACACACTTACCTTTG  
TGTTCTTCCAGAAAATCCTCAGGGAGTGCCTTCAGCTTGTGGGAAATCC  
CGAAGATGGCCAAAGACAACCTCAACTGTTTCGTTGCTTCCAGGGCCTGCTG  
ATTTTGGAAATGTGATTATTGGTTGTTGCGGCATTGCCCTGACTGCGGA  
GTGCATCT

>Sequence 315

GCGATTGGAGCTACTCGCGGTGGCGGCCTCCCGGGCAGGACCCTTAGCAT  
TAGATTGAGTTATGTTGCTAGGAGATGTTTATTGAGTCAGCTGAACTTA  
AGCATATGGGGCTTACTTGGCCCCCTATCAATTTGCGTCAAAATAAATT  
AATTGTAGACCTGTCTTGTTTATGAAAAAGCAATGTGATAGTCTTTAAA  
TTTATCTTTCTAAACAAGACACAAGTTTACACATTACCTTTTAGTAACC  
CCTCTTGGTATTGTTTACCTAAAAGGAAGAAGTGTAGGAAAAACTGATAT  
AAGTAGAGAGTTTATTTGGGCCAAGCATGAGGGTTACAACCCAACTGTAT  
GGAGACAAGTTGTCTGAACAATACACATTCTTATTAGCAACAGTTATAA  
GTAGGTTTTCAAAGAAAAAGAGGCGAGTTCCTAAG

>Sequence 316

CCGGGCAGGTACAGAGACCTCCTTACTTACCCCCCTTCTCCTTCGGCTGG  
AGCTCGGCGAGCGAGAGGCGGCTGGCGTTGGAGAGCGACGGCGGCCCC  
CGCGTAAGCAGTGGTAACAACGCAGAGTAACGCGGGAATGAAGAATCTTA  
GGCGGGTGCACCCAGTTTCCACCATGATTAAGGGTCTTTACGGAATAAAG  
GATGATGTCTTCCTTAGTGTTCCTTGCAATTTGGGACAGAATGGAATCTC  
AGACCTTGTAAGGTGACTCTGACTTCTGAGGAAGAGGCCCCGTTTGAAGA  
AGAGTGCAGATACACTTTGGGGGATCCAAAAGGAGCTGCAATTTTAAAGC  
CTTCTGATG

>Sequence 317

GCGTCAGGAGCACACCCCCGTGGCGTTCGCCCCGGGCAGGTACTCTGCAGA  
AAGTATAGCAGCAAAACAATGCCTATAGACAACAGGAAACAGAACATATAC  
CCAGAAAAATGCCCTGGCAATCATCAAATCACAGTTTCCAACATCAATA  
AAGTGTTTAACTCCTCATTTGAAAGATGGTGTTCCTGGATTGAATATTGA  
AGAAATTAATAGAGAACTTCAGTCTGGAATGGTTTTTAAGGATCAGATTT  
GTGATGTGAGAAATATCTGACATAATGGATGTATATGAAATGAACTATCC  
ACATTAGCTTCCAAAGAAAGCAGGCTACAAGATCTTTTGGAAACAAAAAC  
TCTAGCCCTTGACAGGCTGATAGACTGATTGCTCAGCATCGCTGTCAA  
GAACTCAAGCTGAAACAGA

>Sequence 318

GCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTATTGATGTTGA  
AGATGAGAAATCTCTCAGACTGAAAGTTGCACTGACAGTGGAGCAGAAA  
ATGAAGGTAGTTGTACAGTGATCAGATGAGCAACGATTTCTCCAATGAT  
GATGGTGTGATGAAGGAATCTGTCTTGAAACCAATAGTGGAAGTGA  
GATCTCAAAATCTGGACTTGAAAAGAATTCCTTGATCTATGAACTTTTCT  
CTGTTATGGTTCATTCTGGGAGCGCTGCTGGTGGTCATTATTATGCATGT  
ATAAAGTCAATTCAGTGATGAGCAGTGGTACGGGTGGGAATAGCACTACAC  
TGTTTCATCTAGCCTTGTAGAATAAGTCCCAGTGAAGTATCTGTCAGA  
ATCTTCACTGTTATATA

>Sequence 319

AGGTACTTTTTTTTTTTTTTTTTTTTCAATGTTTCAGTTTCCTTTAAT  
GACCCCCATCTCCCTGAAGGGCAGGTGCAAGGCAGCTAGGTGATGGCAAGA  
GATGTTCACTTGAAGATCTTGGCCTGATTGAAGGCTTTGCCACATGCTG  
GAAGGCCCCCTCCAGGAAAAGTACCAGACATCAGCTGCCTCTTCTTCAT  
TTTCAGCCAAAGAAAGGGCACGTTCAAATGAGGTGAGATCATATCATAC  
TGCTGGGCATAGAAGCAACACAGCCCCAGATTGTTAAAAAGCTGGCCGT  
ATAAATGCCCATCTGCAGCAGCCGCTGTAAAACCGGAGAGCTATTTCTG  
GCTGATCAGAATAGAAGTGGTTGCTTCCAATGCATGCGAT

>Sequence 320

Table 2

GCGCTAGGGGCAACCCGCGGNGGCGGCTGCCAGGCGTNGAACGNGCACCN  
NCAGGAGACGCNCGNAGCCNCGCGCCGTGCNCCGGGGCAGTTAGCCGAA  
GAAGCGGCNCACGCCNNCCAGAGCCACANCATCTGTGGNCGAAAGAGAAG  
CCCAGCGAGAGAGGNGNAGGAGGCCNGCAGGNACCN

>Sequence 321

CGGGCTTGAAGCNNATNCGCGCNGGCGGCTGANAAGCTCGTCGGNCGCGC  
ACAAGCGGAGNNAACCGAAGAGGGGGCTGAAAGNACGCGTTANCCGGACC  
CACCAGNNNCCNGNGNCCAGCGCNGCCGTTTTCCNGAGGGGGGCACNNCC  
CGCAAAGGCNNGAGNGCAGCGGCACAANCCCGGCNCACGGCAGCCNNNGA  
NANNCGGNCNAGGNGACCGACCTTTTCTTTTTTTTACCTAGAAGNNG  
CCAAGCCACCCGNAACAAAGCANACAAACCGAAACGGGCGGGGGGAAGG  
ANCCCAGATGNNGANGCCAGGAAANGGGANGAAGACCAAACGNGCCANGN  
NNCAGAACNAGAGAAGACCCNGGGAAAGAAGAACCGAAGANANNANACA  
GANACCAGANAAAGCCCAANNACAAAGAAAGCANA

>Sequence 322

GCGTTAGGAGCTACACCGCGGNGGCGTTTTGGGGACAATACTTACAAAG  
ACTCCCGTGACGAAAACACAANNNGNCTTGCTGGCACATTGACCCNAGAC

>Sequence 323

GCGATTGGAGCTCCCGCGGTGGCGGCCGAGGTACCTTCAATACTTAAAA  
ATAGTCTTCCACAAAAATACTTTATTTCTGATCTATACAAATTTTCAGAA  
GGTTATTTTCTTTATCATTGCTAAACTGATGACTTACCATGGGATGGGGT  
CCAGTCCCATGACCTTGGGGTACTTTTTTTTTTTTTTTTTTTTGGAA  
AGCTCTGCCATAAACTTCTAGCGTGTGCCAATGGTCACCTGCCACACTCG  
CACCAGGTTGTCCGTGTAGCCAGCAAACAGAGTCTGGCCATCAGCAGACC  
AGGCCAGGGAGGTGCACTGGGGTGGTTCTGCCTTGCTGCTGGTACCTGCC  
CG

>Sequence 324

TGATGTCGAGCTCCCGCGCTGGCGGCCCGCCGGGCAGGTACTTTTTTTTT  
TTTTTTTTTTTTTAGGGGGAGTTAAATAAAATAAGCATGTCTCCATCCT  
TTATTCCTAAACATTTACTTATGACAAATGTAACAACTGACAGAAATTTG  
AAAAATACCAGACACTTCTTAAATGATTTCCCTTGGTTCAAAATTTACCC  
CTTCTTGTTTTCTCTTGCTTTTCAGGTAATTAACCTTCTCTTTTTAGTT  
TGAACATGTCAGTGAAGATTCTCTGTAGTCTTTCCAAGGGGAAGGGT  
TAAAAAAAACCTTTTTTTTTTTCCCGGGGAGGGGTCAAAACCTTGCTA  
TTGAAAAGGGGTGGGTTTACCGGTTATATAGGTGGTTATAAAAAAATTT  
CAAAAAACAATTTTATGGTTTTTAAAAAAAAGTGGCCTGGGTCTTTT  
TAAAAATAATGGGGTCCCCCGCGGGTGGGGGAAATTTTATTAATAAC  
TTTTTTTTTAACCCCTTCCCTCTAGGGGGGGGCCCGCCCCCATTT  
TTTTGTTCTTTTTGAGGGGGGGGAGATAA

>Sequence 325

TTCGAGTCGGATTGAGCTCCCGCGGTGGCGGCCGAGGTACCATCAAGTT  
AAAAGCAGAAGATGCTTCTGGTAGAGAGCATTTAATCACTCTCAAGTTGA  
AGGCAAAGTATCCTGCAGAATCACCAGATTATTTGTGGATTTTCCTGTT  
CCATTTTGTGCTCCTGGACACCTCAGGTAAATTCTCCTCAGAGCTCCTT  
AATAAGCATTATAGTCAGTTTTTGGCAGCAATAGAATCACTAAAGGCAT  
TCTGGGATGTTATGGATGAAATCGATGAGAAGACCTGGGTACTTGCCCGG  
GTCGTTTGTATATTTATCTTTCTGGTACTTACTCTTTTTATCCATTTT  
ATTCCATCCTATATTATTATCTATTTATTACTTAATCCATTCATTCCTTT  
TTAGGGCCTCCTAATTTCTCAGTATCCTGCATATTCGTTTTCTCTATTT  
TTCTTTGTTTATCTTGCTCTCTCTCCTCTACCCCTATACACTCTCTTAC  
ATCTTACTTTATAACATCTTTCTATTCTTTCTTATATCTGTATGACTT  
CTTCAATCATTCTCTC

>Sequence 326

TATGATGTGAGCTCCCGTGGTGGCGGCCCGCCGGGCAGGACTTTTTTTTT  
TTTTTTTTTTTTTAGGGGGAGTTAAATAAAATAAGCATGTCTCCATCCT  
TTATTCCTAAACATTTACTTATGACAAATGTAACAACTGACAGAAATTTG

Table 2

AAAAATACCAGACACTTCTTAAATGATTTCCCTTGGTTCAAAATTTACCC  
CTTCTTGTCTTCTCTTGTCTTTTCAGGTAATTAACCTCTCTCTTTTAGTT  
TGAACATATGCAGTGCAAGATTCCTCTGTAGTCTTTCCAAGTGGAAGGGTA  
TAAAAAAAACACTTTATATTATGCCAGGTGAGGTGTCAGAACCCTGGCA  
TCGGAAAGTGGTTGGCTACGGGTCATTAGGGTAGTAAGAAGAATTTGTA  
GAAGACAGTATTGGTTCTAAAAAGAAAGTTCCTTGGTCTG

>Sequence 327

GCTGCCAGGAATATTTTGATAGGCCAAGTTTGGCCCTTTTAAAAATTGGG  
ATCCCCCGCGGGGGGGAATTTTGTATAAAGTTTGTATACCGGCCCC  
CCTTAGGGGGGGGGGCGCCGCCCACTTTTTTCTCTTTTGGGGG  
TAATATTTCCCTTTGGCCACATAGGGGAAAAAATGTTCTTGGTGGTGTA  
CTTGTGTAAATTTCAATTCCCCTCACCATTCCACACAACCTTTCTCCCG  
GGAGCATTAAGGGGTAAGCCCCGGGTCCCTAATGAGTTTAACTA

>Sequence 328

CCGCGTCCGCTCTAGTGTACAGACACTCCTGGGTTTGAATTTTGTG  
TTCTCTGTCTCTTTGATTTCTGGAAGACGACACCATGACAATTTCAAAG  
AAAATAGAACAAAATGAAGGAAAAAGAGGCTCTGTCTTAGCACATTCCTG  
TGACCAGCCTGTGTCTGTGGCGTGCCTCCTGGCCCCGGCCTTGGCACAT  
GTTGTTTTTGTGGTTGTTGCCTGGACAGGCAACTCTGCAGGGCTGCTTC  
TCTACGCATCCCTTTGCCTGCCTGCCTGTGCCAGGGGTTGTCAAGGGCTT  
TTGGGTCAGAGTGGGCACCCCTTTCTCCAAGGCTCCCTGCAACAGCTGGC  
CTGTCCCTGGTGGGGCTGACAGCTTTCTTCTTACCCTGCCAGGCTGGCCA  
AGCCCCAGAGGTGACCTATGAGGCAGAAGAGGGCTTCTTGGGGCCGTGGC  
TACTCACTAGCTTGGATGGGCCCCCTGTTGGAGCCCAGATCCTTGGTACCT  
TCACTGGGTG

>Sequence 329

AAACTATACTCCTAGTACTATTCATTTCACTATTATTGTGTAATTATATT  
AATTCAAGTTAACTTTACTCTCTAAATACTTCTATAAACTATCTTCTAT  
TCATATTCATAAATTTATTTCTATTTATTAATAAATATTTATTATATAAA  
TTTTTCGTTCTCGTTGCGCCGAGATACTTTACAGGATGGCATTTAATAC  
AGATATTTCTGATTTCCCCCACTGCTTTTTATTGTACAGCATCATTA  
CACTAAGCTCAGTTAAGGAGCCATCAGCAACACTGAAGAGATCAGTAGTA  
AGAATTCATTTTCCCTCATCAGTGAAGACACCACAAATTGAAACTCAGA  
ACTATATTTCTAAGCCTGCATTTTCACTGATGCATAATTTTCTTATTAAT  
ATTAAGAGACAGTTTTTCTATGGCATCTCCAAAACCTGCATGACATCACTA  
GTCTTACTTTTGCTTAATTTATGAGAAGGTATTCTTCATTTTAAATTGC  
TTTTGGGATTACTCCACATCTTTTGTATAATTTCTTGAATAATCAGATTT  
TTAATAGAGTGAAGTTAAATTGTGGGTCATAAAAAGCATTTGGATTGACAT  
ATGGTTTGCCAGCCTAAGGGTTTACAGGCATTGTCCAAACATTTTTTGAG  
AACTATATTTATAAGCAGGCATGGATTTCTG

>Sequence 330

GATGATGACTACCGCGGTGGCGGCCGAGGTACGCGGGGATAGTTCACTC  
ACTTTCAAAGCCAGCTGAAGGAAAGAGGAAGTGCTAGAGAGAGCCCCCTT  
CAGTGTGCTTCTGACTTTTACGGACTTGGCTTGTTAGAAGGCTGAAAGAT  
CGAGCGGCCCGCCGGCAGGTACTTTTTTTTTTTTTTTTTTTGGCTTTC  
TTTGCTCCTTTCTTATGATCAGCCACATTTCTTCGACCTCCTTCTCCTTC  
ATCCTCAGAACTGAGAAATCTTCATCACAAGCTATCCGCTTGTCTGATG  
CTCGAATAGAAATTTCTTGTCTGGATCTTCTCCATCTTCATCTCCACTG  
TCTTCATGAACAGCATCTTCTGGAAATAGCCTGCATCTGGACACCAGGTGC  
ATGAGGTAACATGCGCAAATTTCAAACAAACGCTGTTTTATCTTTTCCA  
TATATTTGGAGTGTTCTGGTTTGTATGTTTGAAGGACTAATATGCAGTT  
TGAAGTCTGGT

>Sequence 331

TCTGATGTGAGCTCACCGGGTGGCGGCCGGGTACTAGCAGTTGCCATGAA  
GGAGGCTTTGTTTCGATTGTATAACACAGAATCACAAAGTTTCAGAAAGAA  
GTGCTTCAAAGAATGGATGGCTCACTGGAATGCCGCTTTTGACCTGGCCT

Table 2

GGGTTCTGGTGAACCTTAACTTGTTACAGCAGCAGGTGATCAAACAGCC  
AAATTTTGGGACGTAAAAGCTGGTGAGCTGATTGGAACATGCAAAGGTCA  
TCAATGCAGCCTCAAGTCAGTTGCCTTTTCTAAGTTTGAGAAAGCTGTAT  
TCTGTACCTGCCCCG

>Sequence 332

TGATGGAGCTACCGCGGTGGCGGCCGCGCCGGGCAGGTACCATCTGACTTG  
GCAATGTAAGACACACACGTTAGTGTGGGGCACAACGTGGAATATTAGG  
AGAGAGCTGGTTCCAGCACCAATCCAGAGTCACTCGGGGAAGGAGGTAT  
GGTGGCAACACTTTATGCTTAATATTCAATTCTGCTCCAGTAGAACATGG  
TACCT

>Sequence 333

TTATATGATCACCGGGTGGCGGCCGCTCGGGCAGGTACGCGGGGACTCTG  
AACGTGCTAAAAATGGGAAGGAGGCGGTGTTTTGCTGATCTGTTAAATCT  
TAGTGAAGTTTCCTTGATTTCCAGTGGCTGCTGTTTGGTTTGGTTT  
GGAGCAAACTGAGGTAGTCTAACATTTCTGGGACTGAATCCAGGCNNG  
AAAAAAAAAAAAAAAAAAAAAAAAAAGGTACCT

>Sequence 334

GATGTGATCTCCCCGCGGTGGCGGCCGAGTTTGATTTCTTGCAAGTCCTGA  
GCGATGGAGCCCCGGGTGCTGTTATTGTCCGCTTTCTCTCAGATG  
CTTGGCTTGTTTTTCAAGAGAACCTTTTCGATATTCAATTGCTCCATCGA  
TTGGATCCAGTCTTGTTCAGAAAATTGTTTCAAGGCACTTAAGGCTGCC  
TGAAAGCCTTGAATCCTTGCTAAATATTCCAGTTGTTTGAAGGTTGTAC  
CT

>Sequence 335

TTGCTGGATTGAGCTCACCGCGGTGGCGGCCGCGCCGGGCAGGTACTTGAC  
TGCTAACAACTTTCAAATTTCTTACTTACTCCCTCTTCTTCAGCTTCAC  
ATCTGGGAAAACCTGATAGGGAAGCCTAGGTAGGCCTACCTTTGGTGCCAG  
AGGGAAGCTCAATCCATGCAAGCCCCAGATAATATATGAGAACCCTCCCA  
ACCTTACCCTACACCCCTCACCTCCCAATCCAAGCCAGTCTCCTTTCCCT  
GCTTTCTCAAACCATGTTTGGACCTGCTTGGAAGCTCCCTCTGCTCTCCC  
TAGAAAGCTTCATTATGTGAGTGATACATCTTTTCATATCTTCTTGGTGG  
TGTGTGTGTGGTATCATCAGCCTCAACATCTGAAGCAAATGTTGGGGGGG  
GTACCT

>Sequence 336

GATGACGAGCTCACCGCGGTGGCGGCCGCGCCGGGCAGGTACTCATGAAGG  
AGATGGCCCCCTTTGGGAGCAACCAGAGAATCACTGAGATCCCAATGGAAA  
CAGGAGGTTTCAGCCAGAGGAACCGACTTTTAAGGGATCACAGAGCTCACA  
CCAAAGACCAGGGGAACAGTCAGAAGCCTGGCTTGCTCCTCAGGCTCCCA  
GGAACCTGCCTCAAAACACAGGTCTCCACGACCAGGAGACAGGTGCTGTG  
GTCTGGACAGCTGGGCCCCAGGGACCAGCCATGCGTGACAACAGAGCTGT  
ATCCCTCTGTGCAAGAATGGATGTGCCCAGGCCCTGCACAAAGGGCCC  
TCTACAGGGGTGCCACCCAGAGGAAGGACAGTCACGTCTCGCTGGCAACA  
AGGTGTGCCCTGGGGCTATGAAGAGACCAAGACGCTCCTGGCTATTCTTA  
GTAGTTCTCAATTTTATGGGAACTCCAGACCTGTCAGCAGAACAGCCAG  
AACTACAGGGCCATGGCGGAAGGACTCTGGAGAAGGGTTTTCG

>Sequence 337

GATATGTGAGCTCCCGCGGTGGCGGCCGAGGTACGCGGGATAATCAAGGT  
GTCACATCCCGGTGGCTGGACATGCCCTCTTGGGCTTGGCAGATGCCAGT  
GGATCCATACAATACTCCGCTGGTGGAATCTGAGAAGAGCCACGTGCT  
GGAGCCATTGTCCAGCCTTGCCCTGGAGGAGCAGTGTCTGGCTTTGTCCC  
TAGATTGGTCCACTGGGAAAACCTGGAAGGGCCGGGGACCAGCCCTTGAAG  
ATCATTAGCAGTGACTCCACAGGGCAGCTCCACCTCCTGATGGTGAATGA  
GACGAGGGCCAGGCTGCAGAAAGTGGCCTCATGGCAGGCACATCAATTCTG  
AGGCCTGGATTGCCGCTTTCAATTACTGGCATCCAGAAATTGTGTATTCA  
GGGGGCGACGATGGCCTTCTGAGGGGCTGGGACACCAGGGTACCTGCCCCG

>Sequence 338



Table 2

GGAGACGCTCGATTTCGGCGGCCGATGACGTGACCTCTCTGGGAAGAAGTT  
ATTCTGCAGGCACACATTAGACCCAGNGATGACAACAACNGCACATCAAA  
AGGCGGGGGGAAGATGACAGACGGTGCCCGCCAGGGCGGAAGAGACCCA  
CCTGGGTGCCTGGGCCCCGACGACAAGGGGGACCTGCCCGGGCGGACGCAC  
GAGAACTAGAGGACCCCCCGGCTGAAGGAATGCGAAATCACGCCAAGCG  
AAACCGGCAACCCGAGGGGGGGCCCGGACCCAGGGGTTGATCCCTATA  
AAGAGGGGGAAACGCACGCTAGGGGCGAAACACGGGCAAAGGACGGCTCC  
CCGGGCGAAAAAAGGGGAACCCGCACACAAAAACCACAACAACATACCGG  
AACCCGGGAGCCAAAAAGGGGAAAAACCCGGGGGGTGCCCAAAGGAAAGG  
AGGCCAACCTCACATAAAACTGGCCCTTGGCCCCACAGGCCCGGGTTA  
TCAAAAGGGAAACCCCGGCCGTGGCCACCCTGGCACAAAGGAAACCG  
GGCCAAAGACCGG

>Sequence 339

GATGATTGACTCCCCGCGGTGGCGGCACTTTCTTTTGTTTTTTTTTTTT  
TTAATGCTGAAGATTTAGATTTATTTGAAAACACTTAGTCTAATTTATAT  
TAGTGCAGAAAAATCACATTCAATAAACCACAATTGTAGAAGAGACAGAT  
AAGTGTGTTTGTACATTTTTCACACAAATATAATTTGATATTTAATTAAG  
GGATGATGAATCACATTCCATGTAAATAATGATTTATTCTCTCAGTAATA  
GAAGGATTCTCTTTTGGGTATTGAGGGGCTTTTGGGGTTATTTTCAATA  
CAGTGGCGGTTTAAAAATATAAGGGAATTTTTTTTTTTTAAAGAACCTTT  
TCCCTTTCCAATTTTTGGGCAATTTCCCGGAAAAAAAAAAAAATTTTTCCC  
GGGGATAAACCCCCCCCCAGGTGGAAAAAAACCCCCCTTTTGACAAAAAA  
TTTTTTGGGGGGGGTGTTTTTATTTTGA AAAATTTTTTTCTCAGGAAAA  
AACCCCTTTAAGAGGGGGGGGGGGGGGTTTTTTTTTGTAAAAAAG  
TTTTTTTTAAAAAAATTTTTTTTTTTTTTAGAGGGGGG

>Sequence 340

CCGGGCAGGTACGCGNGGAGCGGGCCCTACCGTGTGCGCAGAAAGAGGA  
GGCGCTTGCTTCAGCTTGTGGGAAATCCCGAAGATGGCCAAAGACAAC  
CAACTGTTTCGTTGCTTCCAGGGCCTGCTGATTTTGGAAATGTGATTATT  
GGTTGTTGCGGCATTGCCTGATGGGAGTGATCTTTTTTGTATCTGACCA  
ACACAGCCTCTTACCACTTGTGNGCCAACGACCACGATGACATCTAAT  
GGGCTGCCTGGAACGGCATAATTGTTGGCAATTGGCTTTTCTGGCTGGCT  
GGTCTAAGCAATGGAAGCCTTATTGAGGTCCACAAGGAAATTTCTGGGC  
GATTTTCATTTCGGAGGTTATAGGTTAAGCCTTTTGAAGAGGCATTTTGGAT  
TACAAGAAGCAACACAAACGAGACTTTTTTACACACCCAACCTCTTTCTT  
TAACACAATACTATAGAAGGGACCCCTGGGGCGCTCTAAAAACATAAAGGG  
ATCCCCCGCGCTGTTGGGAATATTTAAATTAAGCCTTATTTGATGACC  
CGCCGAACCTCCAAAGGGGGGGGGCGGACCCACATTTTGTGTCCT  
TTTTTGTGAGGGGGGTAATACCCCTCTTTTCGGGAAAAATAAGGGAAA  
AATGGGTTTCTGTCTGGA AAAATTTATCTCTTTTCCAATATTCACAAAA  
TTATAAACCCCGCGGATTAAAAAATAAAAAACCGCGGGGGCCCAATAAGG  
GGGCGAACTTAACACTATATTTGGGGNGCGCCTAACCGCGCTTTTTTAAA  
GGGAAAAAATTTTGGCGCCCTCCTTATAAAAAACACCCACCCCCCGGG  
AGGAGAGTTTGTCTATATAGGGGCTTTTCTTCTTTTCTAATAAAGAAG  
GC

>Sequence 341

AGCGACCGCGGTGGCGGCCGCGCCGGGCAGGTACCAAAGAAGATGCAGTTA  
NAATACTGCCAGTTTTTCCAAGAAATTTTGTAAGTTGAACATGGCCATCT  
ACTCTTGCTTAAAACTTTTCTCACCACACCCACCTTCCACATGCATGA  
TATCCAAGGTCGACAGACCTGGATTAGAATCACTCTAAGCTTTATGCACT  
GCGTATTGTATTTTCTGCATAAGAAAGGGCTGCCTCTAGAACACAGTAAG  
TGATTTTGGCCAGTAGTGACATTGCCTACATATAGCCAAGTGTTATAGTA  
TACCAACTTAGTATATTTTCAAGGAGAGCTAAACACCTTTTGTAAATGT  
TCGGTTTCTCACTGTTATCTTCTTCTATAATTAATTTATTTAATCT  
ACAAATTGACATAGGGCTAAAAGCTTCAATATTTTACAAAATATTAATTA  
ATGTAATTGTTCCCAATTATTAGAACTTTTTTCCATTTTCAAAATGTT

Table 2

TGCCAACTTCACACAAGTGTGTAAAAATAGGGCTCTGGATTTTCAAAGC  
ACATACATGAATAATTTATTAGCTATTCCAGGCAAGCTAAGTACCT

>Sequence 342

TTTGATGACTACCGGGTGGCGGCCGAGGTACAGGTTTAGTCTGAATGCA  
CTGTCATGAAATTTAACTTTCAATTATAATACTGTTTTAAGAACTTACAG  
CATCTGCTTTACAAATGGTGTAGCTACATGTCGACACAGCATCTTAGC  
CAGTTTTCTTTTGAAGTTCATCTGATGTCATCTGGAACTGAGTAGCAC  
ATTTGCCTGCTCTGTTGGTGGCCTCACAAGCAAGGCAAAAGCATTATGGC  
AATCTAGGGTTCCAGAATAACCATAAACATTAAGTGTCACTCCTTGGA  
ATGACAGATGTATGCAAGTTTAGTTCCTCAGAGCAATGAAATTCGAATG  
AAATGAACTATCACTTCTCCACTTTCCTTGTCTATTTTAATAAGACAA  
AGAACATCACCATATTAAGTTGAAGTACCTGCCCG

>Sequence 343

CCGGGCAGGTACATCAGAGATGCTCACACATTCTTTGAGTAGTTAAAAA  
CTCATTTTAACCACTTTTATTCCTTTGTATTCAAACCAATCACTGGCAAT  
AGCTCTAAGTAGGTCACTCACTCTCCTCCATGTCTTCTTCTAATTCTGC  
CACAGACTCACTTCTTCCGTAAATTAATGGAAGGAAATGAGTGTCTGAGT  
TCTTAGAATCTCAAAAGGCATGAGGATAAAGCTTTCCTGGAGATAATATA  
AGTGGTGGCAGGAAGATTTGGGAGCCAGATGATACTTTTTCTCTTAGA  
GAAACTCTGTGGAAGCTCTGCCTATACTGTGGGAAATAAATTCTAGACGC  
TGGCTTCTTTCTGTAGTAAACATGTGGGCCCTTTAAATGTTGAACCAAA  
ATGTGCTTCAAAATAGTTTAGTTATAAAACATTTATGGGGGAGTATGTA  
TGTGCCAACTACAGAGGCTTCAGAGATGAAGAAACAGTTCTTACCCTAGT  
GTTGCTTAGAATCTAGTAGTAGTAAGTAATAATTACTAACATATGCATTT  
ACTATATAGGCAATACTAGGGTAAATATTTTACATAGATTACCTTATTTA  
GTAGCTCTTAGCTGCTAAAAAAGATTAAGATGTCCAGTCTAG  
AGTCTCATAATTGTATGGTAAACACTAAAAATGGTGGTATGGATCAGTTGC  
CATGGAAACACAGGGGCGNGCCCTCAGCTCAGTTTAGGAAGGAGCAGAT  
TACTGAGTGTGGTCTTTACTGGGTAATACCTGAAGAAAGAGAGGTTGGCC  
CCCACAGCAGAGGAAGTACAACAGGCAGGCCT

>Sequence 344

AGGTACTTTTTTTTTTTTTTTTTTTTGTGGGAGTTAAATAAAATAAG  
CATGTCTCCATTCTTTATTCCTAAACATTTACTTATGACAAATGTAACAA  
CTGACAGAAATTTGAAAAATACCAGACACTTCTTAAATGATTTCCCTTGG  
TTCAAAATTTACCCCTTCTTGTCTTCTTGTCTTTTCAGGTAATTAATC  
TTCTCTTTTAGTTTGAAGTATGCAGTGCAAGATTCCTCTGTAGTCTTTC  
CAAGTGGAAGGGTATAAAAAAACAACCTTTATATTATGCCAGGTGAGGT  
GTCAGAACCTTGGCATCGGAAAGTGGTTGGCTCACGGGTCATAGGGTAGT  
AAGAAGAATTTACAGAAGACAGTATAGGTTGAAAA

>Sequence 345

AGGTACACTGCGGCGGGGGCAGAAAAGCTGCAAGGAACAGAACCAAGCAAT  
GCAGAAGCTCCTCGAAGGGCCACCATCATCCTGCAAAACACCAAGCAGGG  
CAGTCTCTTATGCTGTGGCTCTTCTCAAGGATGTCTCAAGGGCTCCGGTG  
GTGCTCTCCTGCTCTATCCGCTGCTGTGGCAAATCCTCTAAAAACAGCGT  
TTTGACAGCAGAGAGCAAAAGTCCGCTTGTTATTCACCCGATACGTGAG  
CTCAGTTTGCCAGCTAGTGATCAAGTCCAGCTGTTGGCAAGTTGGTCCCT  
GAGGCCTTGTAGACTGACCTGTGGCAGAGAGCTCCCTGGGTCCAGCATCT  
GTTGCCCTCACCTTGACACATGCGGACCCCTCCCCAGGCT

>Sequence 346

GGGTACAAGAGATAGAAAGACCAGTCCTTGCTGAAAGACAAGTCTGAATG  
CTCCACTTTTTCAATTCTCTCTCCATTCTTCAGTAAGTCAACTTCAATGT  
CGGATGGATGAAACCCAGACACATAGCAATTCAGGAAATTTGACTTTCCA  
TTCTCTGCTGGATGACGTGAGTAAACCTGAATCTTTGGAGTACCCATTCC  
CTTGATGTCTACAATATCACCTTTCTTATAGATTTCGCATATATGTGGCCA  
AAGGAACAACCTCATGTTTTCTAAAAGGCCTAGAGAACATATATCGGGTG  
CCTCTCCTCTTTCCCTTTGTGTTTCGTCAATTTGGCGAATTACTGGAAGAT

Table 2

G

&gt;Sequence 347

CCGGGCAGGTACACGCCCAGCTAATTTTTTATGTTTGTAGTAGAGACG  
AGTTTCACCATGTTGGTCAGGATGGTCTCAAACCTCTGACCTCAGGTGAT  
CTGCCTGCTTCGGCCTCCCAAAGTGCTGAGATTAGAGGCATGAGCCACCA  
TACCTGGCTCTTTTGCTTCATCCATCCCTTAATTTCTTTGCTGGAGCATT  
TTAAAGCAAATATCAGACATACCCTTTACGCCTCACACTTCAACATGCG  
GCTTGTTGAAATTCGTGCTCCACTCCAGCAACTGCTTTCAATCGGAGTTC  
CATCTCCGCCGCAGTATGCCCTAACGCAGCGTTATCTTCAGAGCTACTA  
CCCAGTTTCCGAAACTTTTCGAGGGAGCGCTTTGGCACCACCTTGAACGG  
GGAACGGGTGCGTAAACCAAACCTTGGAACGCCAGCCCCCGCGTACCTT  
GGCCCGTTT

&gt;Sequence 348

AACGATGACTACCCGCGGTGGCGGCCGCGCCGGGCAGGTACTTGACTGCTA  
CAACTTTCAAATTCTTCTACTTACTCCCTCTTCTTCAGCTTCACATCTGG  
GAAAACCTGATAGGGAAGCCTAGGTAGGCCTACCTTTGGTGCCAGAGGGAA  
GCTCAATCCATGCAAGCCCCAGATAATATATGAGAACCTCCCCAACCTTA  
CCCTACACCCCTCACCTCCCAATCCAAGCCAGTCTCCTTTCCCTGCTTTC  
TCAAACCATGTTTGGACCTGCTTGGAAGCTCCCTCTGCTCTCCCTAGAAA  
GCTTCATTATGTGAGTGATACATCTTTTCATATCTTCTTGGTGTGTGTGT  
GTGGTATCATCAGCCTCAACATCTGAAGCAAATGTTGGGTGGGGGTACC  
T

&gt;Sequence 349

GAGTCGACTACCCGCGGTGGCGGCCGGAAGGAGGAGAGGTGCTGTGCTGT  
GTATGAAGAGGCAGTGAAGACTCTGCCAACAGAGGCCATGTGGAAGTGT  
ACATCACCTTTTGCTTGGAAGATTTACTAAGAAGTCAAATAGTGGGTTC  
CTTAGAGGGAAGAGGTTGGAAAAAACCATGACTGTATTTCAGGAAGGCACA  
TGAAGTGAAGCTTCTGTGCAATGCCAATACAAGCAGTTGAGTGTTCGT  
TGCTGTGTTATAACTTCTGAGGGAAGCTCTGGAAGTGGCAGTAGCTGGA  
ACTGAATTGTTTAGAGACTCTGGGACAATGTGGCAGCTGAAGCTGCAGGT  
GCTGATCGAGTCAAAGAGCCCTGACATAGCCATGCTTTTGAAGAAGCCT  
TTGTGCACCTGAAACCCAGGTTTGTCTGCCATTGTGGATTTCCTGGGCA  
GAGTGGAGTGGAAGGTGCCAAAAGCCAAGAAGACACTGAGGCAGTCTTTA  
AGAAAGCTCTTTTACTGTATAAGTGC

&gt;Sequence 350

GGCGAAGTGAGCTCCCGCGGTGGCGGCCGCGCCGGGCAGGTACCCGTGCTA  
AAGACTTTTAGTTCGGCTCTCCAGTGTTTTTTTTTCGTGATTTGGGCA  
CAGAGTTTCTGGTTCACGTGGATGTGAGGATCCTTTACTCCAGATCGCC  
AGCCAGTTTTTGTTTTTTTTCTGCGTTGCTGAGAGTCTGGGTTTATTCA  
TCACACCAGGTGGATCTTAATTCCATATCCCTGAGGCCACTGCAATGAGG  
CAGAGGAGTGTGCTCCCTCATGAGAAAGGACTGGAGACCGCCCCCAGAAG  
AGAACGTATCCATGTACCT

&gt;Sequence 351

GTAGATGGTTGACTACCCGCGGTGGCGGCCGCGCCGTGCTGGTCCCTATTA  
TTGCCCGTTGTTTCTGGATGTGAATGGATTACAATGTATTTTTTTAGGGA  
AATCCTATTATTATCAATGTGACTCCACGGGGGAGTCCATGGTGATGATG  
ATGAGGAGGAGGATGATGATGATGAGACACCTCTAAACTTGGAAACAAGTT  
TAAGACTTTATGAGAGAAGAAAAAAAATCACCAACAAGAATTGTTTGAGG  
AAAAATCATAACTATCCTGTGTTCATTTTTTTTTTTATAAACAATAAGAA  
AAAGTTGTTGGATTTTTTTTAAATGATTTCTTTTTTGGGGGAGGGAATTT  
TGTTGCAGTTTATGGTGGAAAATGCAAAAACCAGAGCCAGGTGCATAAT  
CTTGTAATCTGTGGATATCCCTGGAGCAGGACTGATGTCT

&gt;Sequence 352

TGATGAATCGACTCCACCGCGGTGGCGGCCGCGCCGGGCAGGTGGTAACA  
ACGCAGAGTCCCGGGAAGCAGTGGTAACAACGCAGAGTCCCGGGAAGCAG  
TGTAACAACGCAGAGTCCCGGGAAGCAGTGGTAACAACGCAGAGTCCAG

Table 2

GGAAGCAGTGGTAACAACGCAGAGTACCCGGGGAAAAAGGCAAATAGAA  
TGAGAACCATATTATGTACCT

>Sequence 353

GTAGAGAATGAGCTCCCCGCGGTGGCGGCCGAGGTACACCCAGCTTTGTC  
TCCTGGCCCCAAATCTCCTTTTCCTTACTTTGGGCATTAACTGCTGTTGA  
GGTCTCACAGCCTGATGGTCATTATCCCTGAATGGCATAAATCAACAGGC  
TGTATGAGCATTGTGTGAGATTCTACATGAGGGAGAGCATTTCAAACCCA  
TGACAGATGAGAGAAGTTAGTACACTCTCACTGAAGTGGGGATGTTTGAC  
TTAAATGATGGACAATAAGATAGTGAGCAGTAAGTGTGCTCTAGGCTAG  
GCTACGAGAGGCCATGAGCTCCTCATCTCTTCTGTTCTGAGCTCTCTG  
ATCCACCGCACTTGGGGCAGGGGGTGCATTCTCTGTGCCTCTCCTGAGTC  
TACTTTCTGCATCAATTGGTTCTCCAGCTCACTTCCATAATGTCCTCCTA  
GGCTGCATTGGAATTGTGTGTTGTCTAGACCCATGGCCAACACTGTCATT  
GCCTGTGAGGGAGACCAAGCTTACCACCAAAGGCTTTTGCG

>Sequence 354

GATGGGTTGAGCTCACCGCGGTGGCGGCCGCGGGCAGGTACTTTTTTT  
TTTTTTTTTTTTTTGCTTTAGAAAGGTTAAAATGCCAATATAAAGCTAA  
AACAGTAATCATCAGAGACAGCTCTAATAAGGCTTTGCTACTGTTTTTAC  
TATATAAATCTTACGTGTTAATGGAAAAGAAAATTAATTCATTCTGTTAC  
TCCATTTTTTCTCTCCATATTGTATGCCTGAAGTGAGCTGATGAGGGGC  
AGAAAGATCATAACAGTTAGGAATGAAGACATCAGAATGTTCCACTAAACA  
GATATTTAACTAGATACTATTATACTACTAAGAATAGCAAGAATGTCTCT  
CAATTCTGGGAATTTCTCCTAGCTCACACAAATGAAACGCACATCTCCAT  
GAATGCTTTCTAATAAATGCTTCCAGGATAGTATCATAAAACAAAGTCAAA  
ATTAAGAAAAATCACTCCATGGCATCCTGGTCATTCTCCATCAGCTCAC  
CTTTCTTCTTATCAGAATCCACAACCTGCTTTTTTGGTTTTTCAACAGTG

>Sequence 355

GCTGAGATGAGCTCACCGGGGGCGGCCGAACCGCCATCTTCCAGAATTCCG  
CCAAAATGACGAACACAAAGGGAAGGAGGAGAGGCCACCCGATATATGTTT  
TCTAGGCCCTTTTAGAAAACATGGAGTTGGTCCTTTGGCCACATATATGCG  
AATCTATAAGAAAGGTGATAATGTAGACATCAAGGGAATGGGTACTCCAA  
AGATTACAGGTTTACTCACGCCATCCAGCAGAGAATGGAAAGTCAAATTC  
CTGAATTGCTATGTGTCTGGGTTTCATCCATCCGACATTGAAGTTGACTT  
ACTGAAGAATGGAGAGAGAATTGAAAAGTGGAGCATTGAGCTTGCTT  
TCAGCAAGGACTGGTCTTTCTATCTCTTGTACCT

>Sequence 356

GATGATTGAGCTCCCGCGGTGGCGGCCGAGGTACCTGACTGTGGCTCAGA  
TCTGCGTCGCAGCAGCAGAGAGAAGAAATCACTCCATATCCGATGAGAGGA  
AGGGTGGCACAGAGATGGTGTCTACAATTAGAGACATTTCTGACTCCACC  
TTAGCCTAAGCAAACCTTTATGTACTGAGTAACATTTGAAGGTTGTCTTTT  
AATGGTGGGGGGTGTTTTTTCTTTTTTAACTACAGTGCTTGCACAAGAG  
AGGGAGGGACTCAGAAAAGGTTAGGGCAGGTGAGGGAGACAGTAGATGGC  
CTGGGATGACTTGAGTCCATCATACTATTGCTTGGCAGGTGTCCTCCCCC  
ATGTTTGATTCAAATTCATGAGTGACCTACCTTTCCCCAGGAATGGGAC  
TGAGAGGGTAGTCTTCCAGCAACTTAGTCTGCACAGGGCTCCCCGTTTCA  
GCTGCCCTTTGGTGGTTGTGCTTTTGTAAGTTTCTTTCTCTGCACTTCGAC  
TTACCTTTGAATCAGAAAGCAAGCCAGCAGGTGAATGAGGGATGTCTGT  
G

>Sequence 357

GATGCAGTTGAGCTCACCGCGGTGGCGGCCGCGGGCAGGTACCATCTG  
ACTTGGCAATGTAAGACACACACGTTAGTGTGGGGCACAAACGTGGAATA  
TTAGGAGAGAGCTGGTTCCAGCACCAAATCCAGAGTCACTCGGGGAAGGA  
GGTATGGTGGCAACACTTTATGCTTAATATTCAATTCTGCTCCAGTAGAA  
CATGGTACCACCATCTTCCAAGTTCAAAAATTATCTTTGATTCAATTTG  
TTCCCCATTCTCTAATATGTACCAATTCTGCTGATACATTCTTTGTAA  
TCTCTCCATCTATTTTAATCTGTTATTCACCTGAGCTACACAAACATTCA

Table 2

TCTGCACAAGGAGTATTCCACGTGCTGAAAAGACAGAGGATTAAGCCCTC  
CTTGTGGAGGCATTACAGTCTGGTTTTAATACACAAACCAACAATTATA  
ATACACAGGGATAAAAAAAGTAGAGGCACTTATTGCATACCTGTACCT  
>Sequence 358  
TGTACGATGAATCGAGCTCCACCGCGGTGGCGGCCGAGGTACTTTTCTAG  
CAGTCTGTGGCCACTCCATACTCAGCTGAAAACACTGTTTCAGCCCCCTC  
TCTGGTGACCTCAGCCTTCTCCAGGTGTATCTCTTGATGATCTTGGAGAC  
CAGCAGCCACAGCTGCTGCTACTCCTGCAGGAGACTGTCAGGCTGTGGTG  
GGGGGACGGGTGTTGGAGGAGAAGTTGAAAATCCGTGTGTTCTCTGTCC  
CTCTGCTCCTCCATCTTAGCTTCTGGAGGAGTTAAGGCACCAAGGGCACC  
AAGTCAGGTTTGGCAGTTTTTGTCTGCCCTTTGCCCAAGGCTTCAACAAAA  
CCAAGCTGGTCCCCTTGCTTGGTTGGGTCCCAACCCAGGGGGGATTGGG  
GTGGGTGGATAAGAACCCACCACTTGTTTTTTCCCCCACTTTTTTTATTA  
GGGGAGGGTTTTGGGTTTGGTTGGGTTTTGGGGGGGAGAAAAAAAATC  
CCACCTCTTTTTTAACTGGAAGGCCCGGGGTCCAATTTAATTTTATT  
TGGACCTCTCTTTTCGGGGTAAAACAT  
>Sequence 359  
ATATGAGCTACCGGGTGGCGGCCGCCCGGGCAGGTACTGGTGTGTGATC  
GGAACGTGTCGATCCCCCTCTTCTCATCACTGCTGCTCCAACCTGGATTTAT  
TACTCCGGGAATGGTAGAGAATAAAGATTTGTAGGAAAGGTGCTGAACTG  
CCAAGGAAGGCATTTCTTGTGCCGTGTCTGGAACCGTGTATCCTTACTAC  
ATCACTGAACGACACCAAGCACCCCATGCACTTCTGGGTCCAACCTTGGC  
CCCTGAAGAAAGACACTGAAAATTGGAATGCAAGCTACTTCCGTAGGGGG  
GATTTCTTTTATAATGGTAAGGCCCTTTAAAAAAGGGCTTAACAACAAAA  
AAAATTTTTTCCCCCGGGGGAGGTGTTTTAGGGGGAAAAAGGGTTTTTCC  
CCCGGGGAAACCCCCCCCCCTTTTCTGGGAGGGAAAAATTTTTTGGGTC  
CTGGAAGTTTTCAAAAAATAAAACCCCCCTTTTGTTTTTTAAAAACAAC  
ATAAAAGGGGTTTTTTTTTTTGAIAAAAAAAAAAAAAAAAAATTTTAGAAC  
CCCCCTTGTGTGGTTTAAAAG  
>Sequence 360  
TTAGGACTACGGGGCGGCGGGTCTCTGCAAACTAAACACGCCCCGAGGA  
AATTTGGCCAGTTATCCAATTGATGAACTAGTAGATAGAGCCAAACAATC  
TTTTCAAGAGGGTGTGTGTGAGATATGGTTGACCAAGTGAAGACACGGGGG  
CTTATGGCAGAGATATTGGCACCAATCTGCCACACTCCTGTGGAACTG  
GTTGAAGCGATTCTGAGGGAGCAATGCTGAGGCTTGGCATGACAAATCC  
GCCCTATATTTAGAGCATCTGGAGGAAATGGCAGAAATCCTTAATCACC  
CCAGAGTCTACGCTTTTCTGCACATACCAGTCCAGTCTGCCTCCGACAGC  
GTACCTGCCCCG  
>Sequence 361  
GTCGACGTGCATTGAGCTCACCGCGGTGGCGGCCGAGGTACTTAAACCA  
AATAAAAAGTGACATTTGAATTTCTTTTAAAGGATTTCCGAGCTCACAG  
TCAGCTTGGCAGCCATTCTCCCGCGTACCAGCACAAACCGGGCCAGCCTC  
CTAAACTGCTCATTTACTGGGCGTCTACCCGGGAATCCGGGGTCCCTGAC  
CGA  
>Sequence 362  
GTCGAGATGCATTGAGCTCACCGCGGTGGCGGCCGAGGTACGTATGCACA  
GCCTCACACTCTATAAATGTATGTGTCCTGAATTTTCAGAGCTTAATAATG  
AATTATGGAACCTTGATAATGATTGGATCAGGCAGACAACACCTGATCAGT  
CCTAATATCAGAAAAGAGACAAGTAGACATTATGTGCTTCTGAGGTGAG  
GCAGTAGTAAGGAAACAACATCACACATGTAGCAGTCTTGGGAAAAAAA  
TGTAACCTGTATCTCGTAATGAGGAAACAATCAGTAAAAAAGTCTAGATT  
GTGGGACATTCCACAAACTTGCTGAACTCTTTAATAATGTCAGTGTCTAT  
GAAAGACACACCACACACACACTGCACATCATACACAAACACCACCCC  
ACCACCCACCACTCAGACACACACAAAAAGGGCAACTCTAATCAATTAAAG  
GAAACAAAAGAGAATGACAACTACATATAACGTATAATTCTTGATTGGAT  
CCTGGATTTAAAAATAAACAGCTATAAAGGATATTTT

Table 2

## &gt;Sequence 363

GCGATGAGAGTTGAGCTCCCCGCGGTGGCGGCCGAGGTAATAAACCAA  
ATAAAAAGTGACATTTGAATTTCTTTTAAAAGGATTTCCGAGCTCACAGT  
CAGCTTGCAGGCCATTCTCCCGGTACCAGCACAAACCGGGCCAGCCTCC  
TAAACTGCTCATTTACTGGGCGTCTACCCGGAATCCGGGGTCCCTGACC  
GA

## &gt;Sequence 364

GTTGCGTGAGCTACCGGGTGGCGGCCGGGTCAACGCAGAGTCCCGGAA  
GCAGTGGTAACAACGCAGAGTCCCGGGAAGCAGTGGTAACAACGCAGAGT  
CCCGGGAAGCAGTGGTAACAACGCAGAGTCCCGGGAAGCAGTGGTAACA  
CGCAGAGGCTTTCAGCACAGCCCAGGGTGCCCGGGAAGTGAAGAACTCCTTC  
ACCAGCCCCCTCCACAGGATATAGAAGACTTAGATCACTACGAGATGAAA  
GCAGAGCCCAATTAGTGGGAAAAAGTTGGAGGATGAAGGAATTGAAAAAA  
AAAAAAAAAAAAAGGTTCTGCCCCG

## &gt;Sequence 365

GATTATGTGAGTGATTGAGCTCCACCGCGGTGGCGGCCGAGGTACCAAGC  
ACTGGGTAAGGCATTTTGTGGAGCATTAGACAGTAACCTCAAGGAGCT  
AGAGAACCGGATGGGAGACATGAGCGGTAATTAACCTCACTTGTTCCTCAG  
AGTTTCTATTTGTTTTGTTTTCTTTTTCTGTGACTTATTTTCCTATTTTC  
TTTCTCCATGTAATTTTCACTATGGCCCAACTAATAAACACCTGGAA  
ATTACAAGGAAAAAAATTTCTTCTCTAATAACTTTCCAAATTTGTGGAA  
TATTTATTTGTAATAGCAGTTATCAGTTATGCTTATATAGCATTAATAAT  
TCTCCTCCTTTGACTACACACACAACCACAGTGTGGTTCTAATCATGGAG  
ATATCAGTAATTTTTAGTAAGTGAATTTTGAGGACATTTCTCTGTTTAGC  
ATGTATGCAAACTGATATGTAATCCGGGGTTCCAAAGTCAATTTTTTTCT  
TTTTTTTGTAGATGGAGTCTTACTCTGTAC

## &gt;Sequence 366

TGTGACGTGAGTTGAGCTCCCCGCGGTGGCGGCCGAGGTAATTTGCATCC  
TTCAACCCAATCAAGCTGACACTCAGTATTAACCATCACAAGGCGTGAGG  
ACAGATAGCTGCATCCGCAAAATAGAGAACCAAGAAATAGTCCACACCA  
AAGTCAGGATCAAATGATTCCTGGACAAGCCACCAAGTCAATTCAACTGA  
GAGAAAGAAGCCTTTGCACCAAGTTGGTGCTGGAAAGTCTGGATATGCACC  
TGGATAAGTGAACCCCCCTCCGTCACCACACACAAACGTTAATTTGAGAT  
GGATTGCAAAACATAAAAGCTAAAACCATTAACACTTCTTGAAGGTAACAT  
AGAATATTTTGTAAATGTTATGATAGGCAAAAGTCTCTTAGGACACACAAA  
AAAATTAACCATAAAGAAGAAATGGCTGGGTGCAAGTGGCTCACACCTT  
TAACACCAGCATGTTGGGAGGCTGATGCAGGAGCGTCCCTGAGCTCAAGA  
GTTTCAGCCCAGACTGGCAACATAT

## &gt;Sequence 367

GTATGATAAGAAATCGACTCCACCGCGGTGGCGGCCGAGGTACATTGAGAT  
TCAAGAGAAAAGTCACAGCAGGTCTGAGCTCCTCCAGCAGGCCTTATGTA  
ATGCTAAGATTTTTGGGGAAGATGAAGTTGAACTGATGAACTGGCTGAAT  
GAAGTGCATGACAACCTGAGCAAGCTCTCAGTCCAGGATTACAGCACTGAG  
GGGCTATGGAAGCAGCAGTCTGAACCTCGGGTTCTGCAAGAGGACATCTT  
ACTCAGGAAACAAAATGTAGATCAGGCTTTACTAAATGGTTTAGAAGTAC  
TTAAACAAACCACAGGTGATGAAGTTTTAATAATTCAAGATAAATTGGAA  
GCCATTAAAGCAAGGTACTGCCAGATACGAATTGAGCATACCACAAAAAA  
GTTCTCATTTTGTGTCTCTCCCATCCCATTTCTCCTCACTAACCAAGGCTA  
GGAATTATCTGTGAATGTAGGACCACTGGATTTGCAGTCTTCATCTGACA  
CTGGGGGAGAGTTTCTAGGAATGAAAT

## &gt;Sequence 368

GATGTTTATCGACTCCACCGCGGTGGCGGCCGCGGGCAGGTCAATGTG  
CCAGGCACCTTACAAGACACAAATATGCTCTTATAGGCTGGGGAAATAAG  
AAAATATGAATGAAGCAACCCAGGTCTTGAGCCAAAGAAATTACCTGGGGT  
CCGTTGAGTTCAAATCTGAAAATTTCTGTCTTTCAAGGTCAGCATCGCCC  
ACAAAC

Tabl 2

## &gt;Sequence 369

TGTTGTGATCGACTCGACTACCGCGGTGGCGGCCGCCGGGCTGGTACGC  
GGGGGTTTCCGGTTTGGGTGTGGCCGCATGGCGTGCTGGGGTGCAAGGTGG  
CCGAAGGGGGCGTTACTGTTGCGACTGGCATCCGCATCCGGCAGATGTAG  
ATGGAACCAAAGCCAGAAGTTACGCGTCACCCTTGCTCTACAGCCAAACA  
TGCAGGACTCTAGTAACCCGCGAAATGATGGGATAGCGTTGCAAAATCCTT  
AAAAGAGTCTTAACGGAGAAGGAAAAATGTTACATTGTCAAAGTCCCAA  
GCCTTTACGCTGAAGCCAGGAACAATTGTTCAAAGTTTCTTTGGAACAT  
CAAGGAAGGAAATCCAGATTTTACTTTAAGTGCAATGGGGAGTCATTAAG  
GATTTTGTGTAGATACAGCAAAAAGACAACAATCTTCAAGCCACAATGGC  
CCTCACCAGAACCCAGCCATGTGGTCAGCCTGATCTCGGACTTCACAGCC  
AGCAGAACTGTGAGAATTAATCT

## &gt;Sequence 370

CAGCCATTTTATGATAAGGCCACGGTTGGGCCGGTTTAAAACAAGGGGGT  
CCCCCGGCGTGGGGAAGATTTTATTAAGCCTTTTTGTACCCGCCGCCTC  
CAGGGGGGGGGGCCCGCCCCCCCCCTTTGTTCCTTTTTTAGGGGGGGA  
AAATGGCCCCCGGGGGGAAAAAGGGAGAAAAGGTTTTTTGTGTGGAAAA  
AGGGTTTCCCTTCAAATTTTCACAAAAAAGCGGGGGGG

## &gt;Sequence 371

GGACGCGGAGTTGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACGAT  
TATTTTAAACAAGCCTACGTCCCTGACTAACCGAGTGGAAGGTGTGAGTG  
GCACTACAAATTCACAAAAGAACTGTAGCCTCAGATAATCAAAGGAGAGA  
AGGTCAGATGCAATCACTGATGCATGCTAGTAATTCTCAAACCTTCGTTT  
TCAGAAACGATTGGATTTTCAGATAGATTTGCAGTAAGAGAATAACAAGT  
CTTTATTTTTTTCATCCCAACTTCTTTCTTGCACATTTTCTTCTAGCTA  
TATTTAATATCTGTTCTCCCCACACACTTGCTAATCTACATTTTACAATC  
TTTTCCACTTCACTTTGTCTGCANAGAAATCTACCTGGACAGAATAGCA  
TCTTTTTTTTTTCCCCCTGACCCTTGGCATTTCTCTTCTCCTCCAATTCTG  
CCTGATCCTAGGATGGACTCTCTCATCCCTCATTCTCTATCATTAGCTCT  
CAGGCTGG

## &gt;Sequence 372

TGGACGATGATTGAGCTCACCGAGCGCGGTGGCGGCCGCCGGGCAGGTA  
CGCGGGGATGTCTCTTGTGCTAGCTGTCTTTCAGAAGACCTGGTGGGGCAAG  
TCCGTGGGCATCATGTTGACCGAGCTGGAGAAAAGCCTTGAACCTATCAT  
CGACGTCTACCACAAGTACAAGAGATAGAAAAGACCAGTCCTTGCTGAAAG  
ACAAGTCTGAATGCTCCACTTTTTCAATTCTCTCTCCATTCTTCAGTAAG  
TCAACTTCAATGTCGGATGGATGAAACCCAGACACATAGCAATTCAGGAA  
ATTTGACTTTCCATTCTCTGCTGGATGACGTGAGTAAACCTGAATCTTTG  
GAGTACCT

## &gt;Sequence 373

TGAGATGAGCTCCACCGCGGTGGCGGCCGAGGTACGCGGGGAGAAGGAAT  
GGAAAGCCTGGAGAAAAGAGGATGAAATGACGGATGAAGCAGTTGGAGACT  
CTGCTGAGAAGCCTCCTTCTACTTTTGCCTCACCTGAGACTGCTCCAGAA  
GTGGAGACCAGCAGAACTCCACCAGCCTGTGAAACCACGAACCTTCAAT  
CAAGAAAAGACCTTTGATCAGGAGAAGACTTCTCGTCTCATTTCTGGGGA  
CACATTCAGGATTTCTCCAAAGCAGGTGAAGGTACCTGCCCCG

## &gt;Sequence 374

TGAGATGGTCACGGGTGGCGGCCGAGGTACGCGCCAGTCACTAGCAGGTC  
CTTGTGAATCTCCTCACGGAGGCACTTGCGAGAGTTAATGGGCAGATGGA  
AGGAGATGGCAAGGACCAATCTGGGGCCGAGCAGGAACAAAAGCAGCAAC  
GCTAACGGAAAAGGGCCGCGCGGGCTGGTGGGCCAGACAAACCAGACAT  
GGTGCTCCCCGCGTACTCCTTATACTTATTAACACAAAATTAATTGTAA  
AATAGCCTCAGGCAGGTCTTCAGGAGGTATCCAGAAGAAGGCATTGTGA  
TCATAGGAGCTGATGGCTCCGCTGGGTTACTGCCCCCTGTAGACTTCCAG  
TGGGACAGGATATGGAGGTGGAAGACAGTGACATGGATGATCCGGACCCT  
TTGTAGGTCTAGGCTAACGGGGGTGTTTGTGTCTTAGCTTTTAACAAAA

Table 2

AGGTTAAAAAGTTAAAAAATAATAAAAAANTAAATTNTAGGTACCTG  
GCCCCGGCGGCCGCTCTAAACTTGGGGAATCCCCGG

>Sequence 375

GATGCCCCGGGTGGCGGCCGAGGTACCTCAGCTGTTGATCTGTGGAGCC  
TAGGAATCATTTTACTGGAAATGTICTCAGGAATGAACTGAAACATACA  
GTCAGATCTCAGGAATGGAAGGCAAACAGTTCTGCTATTATTGATCACAT  
ATTTGCCAGTAAAGCAGTGGTGAATGCCGCAATTCCAGCCTATCACCTAA  
GAGACCTTATCAAAAGCATGCTTCATGATGATCCAAGCAGAAGAATTCCT  
GCTGAAATGGCATTGTGCAGCCCATTCCTTTAGCATTCCTTTTGCCCTCA  
TATTGAAGATCTGGTCATGCTTCCCACTCCAGTGCTAAGACTGCTGAATG  
TGCTGGATGATGATTATCTTGAGAATGAAGAGGAATATGAAGATTGTTGT  
AGAAGATGTAAAGAGGGGAGTGCAAAAATATGGACCAGGGGTATCTCTA  
CTTGGTCCAAAGGAAATCCTGGCAGAGGAACAGTCTTTGTTGAGTATGC  
AAAGGCTGGGGATTCAAAGTTGCGCAGAA

>Sequence 376

CACATCTTATAATTATTTATTTCACTACTTATTATTCTAATTTATACAC  
AATCTTTCTATTATTATTCTTTTCTATTTATTTACTTTTTTATACTAC  
TTTTTTTCAATTTTGAGATGGAATCCCCGCGCGCTGCTTGTCTTTTA  
CTGCCCAGGTACAGGTCTCGAAAAAGCGGGTGGTGCAATGCTCCATGGG  
GATGAGGGGAGCACGCAGTGGAGCCAGCTCGGTGTGGGAGAGGTACCTCT  
AAGGTGTTCTTCTACCTAGCCTAGTTTTTTTCTACCAACCTAGTTCACC  
TAGTTTTCTGCTAACCTCGTTAGATATCACTCTTCGCTGCTTCAAGAAT  
ACTAAAGCAACACTCCTGATATTAACCTACTACTCAGTTTTGTGTGGCAA  
AACAGAGATCACATCCCATTTGTCTTTGTGTCTCTGGCTGTTAGCACAAA  
GTTTAGCACTTAATTCATGCTCTACAATGTTAGTTGAATAGGTGAGTGAC  
AGAATTTGTTATTCTTAAACCATTACTGTTTGTAGTGAGAGGGCAGATG  
TTAAAGTAGCTCATTGACGTTACCCCTTTTTTGAGTAAAGGGAAAAGGA  
GGTAAGATTCCCCAGGTCTTTGTGGGCCAGTAATTTTGGCTTGGAATT

>Sequence 377

TGTATGCGTGAGCTCACCGCGGTGGCGGCCGGACGGAGGAGAGGTGCTGT  
GCTGTGTATGAAGAGGCAGTGAAGACTCTGCCAACAGAGGCCATGTGGAA  
GTGTTACATCACCTTTTGCTTGGAAGATTTACTAAGAAGTCAAATAGTG  
GGTTCCTTAGAGGGAAGAGGTTGGAAAGAACCATGACTGTATTACAGGAAG  
GCACATGAACTGAAGCTTCTGTCAGAAATGCCAATACAAGCAGTTGAGTGT  
TTCGTTGCTGTGTTATACTTCTGAGGGAAGCTCTGGAAGTGGCAGTAG  
CTGGAACCTGAATTGTTTAGAGACTTTGGTACAATGTGGAAATTGAAGCTG  
AAGGTGTTGATCCGAGTAAAAGGAGCCCTGGCAATACCATGCTTTTTTTG  
AGAAAATTTTTTGCCCTTGAAACCCCAAGTTTGTGTCATTGTGGGA  
TTTTCTGGGCAGAGTGGAGTGAAGGTCCCAAAAGCCCAGAAGACACTGT  
TG

>Sequence 706

GGTACGAGTAAATTTTCATTACCTTTAATTAGGCAATGTTTCTTAGATAA  
CCATAAACTGCAAAAGCAATTTTTAAAAATGATAAATAGGACTTCATCA  
AAAAGTAAACGCTTCAAAAGATACTACTGAGAAAGTCACAGAATAGGAGA  
AAAATCTGATGAGACTTTATGTCTAGAGTAATGAATTCTTGTTAACGAAT  
AACCAACCCCTTTTAAAAATGGGCAAAAGATTGAATAAACATTTCACT  
ACAGACAATAAACAAATGGCCTTAAGCACAAAGAGATGCTCAACATCAGTA  
ATTATTAGGGAAATGCCAATCAAACTACAACGAGATACCCTATATCCAC  
TAGTATGGCTATAATAAAAAAGAGTAACAAACGTTGAGGAGGATATGGAG  
AAACTCGAGCCCTGGTCAGGTGTGGTGGATCACACCTGTAATTTCAACAC  
TTTGGGAAGCTGAGGCAGGCAGACTACTTCACTGAACCCAGGAGTTCAAG  
AGTAACCTGGGCAACACCGCGAAACCCCATTTCTACAAAAAATCAAAAA  
TTAATCACGCTTGGTGGTGGTGGCCGCTATAATCCAACCTCTTAGGAGG  
CTAAGATGGGAGGATTGGTTGAACCCAGGCAGGTGGAGGGTGGAGTGAAC  
CAAGAAAAAACCGGTGGACCTTTACCCGGGTGACCGAGTGGGACCCCTACT  
TCAACAAAAACCGAACTACTGGGGCCCTATAAACTGGCCGTTTCTTAAA



Table 2

CATAATTTACCCCTTGGT

&gt;Sequence 707

GGTACCCATATCCAAGGCTTATTGCAACTTTTAGTCTTGCCCCTGCTACT  
TACACAGTCCAGAATCACTTGGTGAGCATTCAGTAGGACGGTGGCATT  
TAGGATTGAGAAATTAACCTATAAACCTGTCATTTGATTCTTGATTATT  
AATGTCTGGATCGCCTGTGGTAGGGGTGTAATCCCAGGAAGGCATTAAAT  
ATATTTGAATTAATGTATATTTTGAGAAATAAAAGGCTATTTCTAGAAAAT  
ATTACACACTGTCTTATGTAAATAAAAAATTTGCTATTTATTGAATATC  
CCTTACCCACCCCTTCTTCCCAATGAAGATCTTATGCATACCTTCACTGGA  
AGGTTTAAGATGTGACAATCTTAATAGATCTTTGTGAGACCAGCCATTTCT  
TCTGTTTATATTTTGAACCGCCAGAGCAAGGCCATGCCACCTTTCTCA  
TTGTACCTGCCCCGGCGGCCGCTCAAAGGG

&gt;Sequence 708

ACATCCTTTTGCATGCTCAAGAGCCCATTCTTTTCATCATTCGGAAGCAA  
CAGCGGCAGTCCCCTGCCCAAGTTATCCCACTAGCTGATTGCTATATCAT  
TGCTGGAGTGATCTATCAGGCACCAGACTTGGGATCAGTTATAAACTCTA  
GAGTGGTAAGTGTCTTCACATTTCTTTAAGCACTAAAGAAAACCTTTTAATT  
AGCTACCTTGCTTCCAGTAATCAAAGTCTAGAGCTCCTCTGCCTTGTGTAAG  
TTGCTATAAAGTATTGACTATTAGAATGTCTTGAACCTTTGGTTACTGTGA  
GCCAAGTCGGTGCTCAAAGTATATTTTATAGTCTCAATTATATAGTAATT  
TAGGTTCTGAAAAATAGGTTCTGTCTTTGCATATGTAATATTTTGTGAGT  
ATTTACTTTGGAAAGTTTGGTTCGACCTAATGATAAATTTAGAGTTTATTT  
TCCTTTTACAAGCTTACTGCATTGCATGGTATTCAGTCAGCTTTTGATGA  
AGCTATGTCATACTGGTCGATATCATCCTTTCAAAGGGTATTGGTGCCAC  
TTCAAAGATCATGAAGAGCAAGGTAAGTAGAACATCCATACCCCTCCTAAA  
CACTTTTGGACCTCTGAAAAATGAGCTTGTTTTTTAGGAAAATGGCTGGGG  
ACTTTCTAAGGGGTTCACTTTTTCATGGATGATGCTTTGTTGAACTGAAA  
TCATGGAATAGAAGTGAATAATACTTTACATAGGACAT

&gt;Sequence 709

GGTACAAGCATGGTCCATACCACTGTTTACTTTTCTAGAAAAGTTGTTAGA  
CTAATTTTTCACAAAAATTTCTTTATTGTCTTGGTAACAAAAGAAGCATA  
CTAAAAATTTCTCAATAAGGCACAGTGTCTCTAGAAGCTTGAGCATTCAAC  
ATAAACTTCTAATTAACACGAACCTTGCTCTTATTTTCAAGCATTGCTGT  
GTGGGCTTGGAGCCAGGAGAAGATGCAGAGGAATTTTACAATGAATTACT  
TCCATCAGCTGCAGAAAAATTTTCTAGTTTTTGGGGAGACAATTACAAACAT  
GTTTTAT

&gt;Sequence 710

ACGCGGGCTAATCCCAGTTATGAGGGCTCTGCCCATGACCTCATCACTTC  
CCAGAGGCCTTACCATCTAATACCAATACATTGGGTTTAGAATTTTCAGCA  
TGAGAAATTTGGGGGAGACAGTCAGACTGTAGCGATGATTCTGGAGTATTC  
ATCATTTAAGAGACACTTAAAAATGATCAGAAAGGAGAGGATGAAGGCTA  
GAACTAAGACTTTAGCGTTGAACATGGAAGGAAGTGATGACTGCAGATA  
TCTCCAGTACC

&gt;Sequence 711

ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGATAGCCATATACCAAATAA  
ATGTTCTGTGACTAGGGGTTATGGCACAATGGGTATTGAGACACTAAAAA  
CTCTGCTTCAGGCTTCCATCCTCTTAATTTTAGAATATCTCTGATTTCCCT  
AATTTTCTGATTGACATCTTTTGGTAGATTATCGTGTTTTTTACTTTATGT  
TATTGACTGATCCTTTAGAATGATTTTCTTTTTTGTCTGGGAAAAAAAAT  
GCATTCTAAATCAGATTCATAATACTTTGATTCACTTCCAAGGATT

&gt;Sequence 712

GGTACTTACAAAAATTTTAAACATTAGGAGGTAATTATAAGTAGATTCTG  
TGATTAGGACTTCATTATGTATCTTTTGTACATAAACCTTTGTTAGAT  
TAAATGGAAGACACCTGCTAGGTGATACTTTTTATAAAACATATGAGTAA  
GTCATATATCTTTGTTAAATTTCTGTATGTTCTTTTTTGTATAAAGATGG  
AGAGAAAGGATGGAGTGATACTAAGGACCCTAATAACATCTCTGTTCAAA

Table 2

TTAATTACTAAGTGATAGAAAGTATTCATATGCCATTAAAGATTTGCCAAT  
TCTATTTG  
>Sequence 713  
ACTGACACAAGGACTCCAGGCCACACATATCTTCTTGAAAGCCCTTTTCC  
TGTTTGAAAAAAGATCGTTTGTATTTGATAGAGCAAAAGAAGGCCACAA  
AATGAATTGTCTTCTGTGGGCTGTGTTTCAGAACGGCCGTTTGTGGGC  
GATGCTGACCTTGAAAGACAGAAATTTTCAGATTTGAACTCAACGGACC  
CCAGGTAATTCTTTGGCTCAAGACCTGGGTTGCTTCATTCATATTTCTT  
ATTTCCCCAGCCTATAAGAGCATATTTGTGTCTTGTAAGGTGCCTGGC  
>Sequence 714  
CCCTTAGCGGCCGCCCCGGGCAGGTACATATGCACTATTTAGAATATGACA  
TTAATCAACCATTAGAATTAATAATCAGGTTATAAATCCTCAAAATCACCA  
GAGTATAAATTTAAATGAAAAACCCAGACCACAGAACAAAAACAGAAATA  
CCAAAAAATAATCACAAAATATTAATAACAGTATATAAACACAGTGACAG  
AATTAGGACTAAACATATCTGTAAACAATAAATGTAAGGGTAATCTCAC  
CAATTATGAAAAAGACCTTCAGATCATATTTTAAACAAATTTAAAAACT  
CAAC  
>Sequence 715  
GGTACGTGTGCTGGATATGCAGGCTTGTTACATAGAATTGGTGTAATAAT  
TGAAAACCATGAAAAATAAAACAATAAAGGATCTAGATGCTAATAATGT  
GGTAGTTAACATGTTGACCATTTCAAAGCAAAATAAGTCTTTGATGTTT  
TATACTATTCATAGCAAGA  
>Sequence 716  
ACAGTGGTGTGATCTTGGCTCATTGCAACCTCCACCTCCTGGATTCAAGC  
GATTCTCCTGCCTCAGCCTCCCAAGTAGCTGGGACTACAGGCACCTGCCA  
CCATGCCCCGTGAATTTTGTATTTTAGTAGAGACAGGGTTTCACCGTG  
TTGGCCAGGCTGGTCTTGAACTCCTGACCTCAAGTGATCTGCCTACCTCG  
GCCTCCTAAAGTGTGGGATTATGGGCGTGAGCCACCATGCCACCTCCT  
GGGTCACTCTCTGGATATTACCAGGCATTTTATGCTGATCTAAGTGAA  
AACCTGGATATTTTTTCTCCAAAGTTATTTCTTAGTTCTACCTATGAC  
ATGAGGGTGATCTTTATAATTTTTTTTGTCTTCACTGAAGAAATAAAAC  
ATTGCTTAAGGGAGAGTTGGGGAGTGATAAGGATCTGCAGTTGGGACT  
GGATTTTTCGGGTTTGTTTTACCTACAGCCTGGTTCTGTCCACCTTTCTG  
AGGATTTTGTTCGCCCTTTGTTGGTCACCATGAGCATTTCTTATGGGAA  
TATTTGTGAAAGAAAAAACACCTTTTTTTTAAACACCCAGTTCATGTTA  
TTAACAAGCAGAATTCACCTTAACGGCTGTACCTTGGTCGGGAACACACT  
TAGGGC  
>Sequence 717  
GGTACTAATCTAAATGCTAGACAGTTCAAGTGTAGCTTTGGAGACTTACA  
GATAGCCAGCTAGAGAACTACCAATGATGATATCCATCACGAGGAGTTTG  
GTGGCCAGCCTCCAAGATGGTCTCAATGATCTTTGCATCTTCATATTT  
CACCTGTGTAGTCCCTCTCTCAGGGGATTAGGGTTGGTCTGTATGATC  
ACCACATGGCTGCAGTAATGGTATGTCACCTCTGAACTTAGGTTATAAAA  
GACTATGACTCTCATCTTGGGTGTCCACTCTCTGTCTCTCTGATCTTACA  
CTCTAGTGGAAGCTGCCATATTGTGAACCTCATGGAAGGCCACAGGGTG  
AAAAACTGAAGCATCTAATCAACAGTTAGCAAGAACTGAGGCCTGCCAA  
CAACCATGTGAGTGACCCCGGAAAGAATTTTTCAGTCCCAGTCAAACACT  
GAGATAACGGCAACCTCAGCTGACAGCTTACCTGCAACCTGATAAAGACA  
CCCTTGCCCCGAACCATAGGAACCATTTCTACCCAAATTCCTGATCTTTA  
GGACCTTGTAGATAATAAATAATTTGTTTAAAGCATGGTTAATTTGTGGCA  
ATGTGCTATATAACCAATAAATAATACATGGCGGATAGAAATTTCTTTTC  
CTTTGGACCAACCGCAAAGTAACCTTTTTTTCTTTACAGCCAATTTCC  
TTTGGCTAAATACTGTACAAAAGAAGTTCCCGAAATATGAAGGATGGGGG  
CAGGTTTTGC  
>Sequence 718  
CCCTTAGCGTGGTCGGTTTCGGGTATTTGGGGCGGGATAAACATGGCGAC

Table 2

GTCTCTGCATGAGGGACCCACGAACCACTGGATCTGCTCATCCGGGCCG  
GGAAGCATCAGTTCACAGCAGTAATGCACACTGTGGCAGGAGAATCGCTT  
GAACACGACAGGCGGAGGTTGCAGTGTGACGAGATTGCACCAATTGCACTC  
CAGTCTGGGCGACAAGAGGGAACTCCATCTGAAAAAAGGAGAAATTCT  
TTTATTTTCTACTTCTCTCAGATTGTCTTATGCATTTTCCAATATGT  
ATGCATCAGCTATTCTTTTCTGAGTTATAGCTACAGTTTTCCTACTG  
TTGTCTTCATGCCATTTTCATTTACATGGT

>Sequence 719

ACTTNNNTTTTATTTTTTTTTTTTTTNGGAGACAGGGTCTCGCTCTATCA  
CCTAGACTGGAGTGCCTGGTGCAATCTCGGCTCACTGCAACCTTCACACC  
CCAGGCTCAAGTGTCAATCCTCCCGCCTGAGTAGCTGGAACCAACAGTGC  
GCACCACTAAACCCAGCTGTTTAATACACCAATTTTAAACCAAAACATTA  
AGAAAAATATAGGAACAGTAAGTAGATTACATTTTGTAACAGACAAGCT  
TACAAGTTTCTCAAATATGAAAGTCATACTAACTGGGAGACTGTTAAC  
TTCTTGATGGGGTTAATCTCTAATATGAAGCCACAGTCATAGCTAACTAC  
AAATTACATATACAATGCCAAAAATATTCAAAAAATAACATTTTTTGCACC  
TTAATGATTACAAATGCTAACCAGCATAAAGACACTGGAAAGTTTCAGAA  
TCTCCTCATCACATACTTTCAAATATCTTCCCTTTACTTTCAATGAAAT  
GTACGCGGGATTCTATGGTAATGATGACTTGCCAAATGTTCCAGGTGGTTT  
CTTAGCTAAAACTAGAGAATGCCCCCTAACTTAGATGGTTTTTTGAAGGCT  
ATTACAATATGGTATTTGGTTTGAACCCCTTTAAAGCTTTTTTACCAAT  
TTTTCTTTTAAACCCCTTGGGGGGGGGGGACCCCAAAAAAAAAAAAAAGGGC  
CTTTGTTTTACACCCCTTTTCGGGGGGGGGGGGGGGGGAAAAAAACC  
CCCAACCGCCCGCC

>Sequence 720

GGTACTTGAAAGACATGGTAAAAATATGTTTACAATAATATTTTATCTTA  
GAAATGTATTTCAGTAAAAATCTCTTTANTTCAACTATCCTCTTGATTCA  
GGGGAAAAAAGGATTAGCATGGGAGATAACAGAATAGGAAGTTTAGGAGA  
TAATGAGACTTCTGTTTTAGTAAAGTAAATAAGCTTTAATAGTTTTTTGG  
TCATGTATTTCAGTTTACCAGCCTTGAAGATATTTGTAGGAAATTTTAAAA  
GTTTCTCTATTTTCAATCCCCCATGATAAAAAATTATATAGAATAAAAGCTGA  
ATTGAACTTTCTTACAGCACACTGAAAAATATCTTCTATAGCATTAATC  
AGATCACAGAATGCATATTTAAACAAAAATTTGACTAATTTAATTTTTAT  
TTATTTATTTTTTTCTGAGACCGAGTCTGGCTCTGTGCGCCANGCCTGA  
GTGCAATGGCNGGATCTCAGCTCATTGCAACNCTNCGCCTCCTGGTTCAA  
GCCATTCTTCCCGCCTTGCCCTTCTAAAGTGCTTGGATTGCAAGCCTTTTG  
CAACCTGCCTGGCCCCAGAAAACTGGTTTTTGAATGTTGGGTTGTTTGG  
GGGTTTTTTTTTCCCTAAAAGCTTAAATTTCCCTTTGGTTTTTTTTTCA  
AAAAAAAAAAAAAATTACCCTTTTTTTTTTACCCTCCCTTTTTTTTTTA  
AAGGGGAAAAAATTTCCCCCAAAAAAAATAAAGGGGTTTTATTTGTGTG  
GGAAAG

>Sequence 721

ACCCTTGAGCGGCCCGCCGGGCATGTACGCGGGGTAACTATGTTTTCTT  
TAACAGAAAGTTCTGTTTTTGTGATCCTTTTTAAAAATAAAGCTTCACGGA  
AGGATGAGAATAGTATTTTCAACTTTAAATTTCTCATTACCAGAAGACC  
ATGTGGTAATTCTCTGTATACAGTTAGAACAGCACGGAACTTGAAGGCC  
TAAAAAATTAGCTGACCTTGTTAAAAATGTTGGCGTGAGCAGTATATTAT  
TACCTATCTTTTTTATTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTAACTAATT  
GGCTGAAATATCTGCCTGTTTCCCTCTTTACATTTTTCTTGTTCCTTCC  
TTATTTATCTTTGTCCATCTTGAGATCTACTGTAAAGTGAATTTTTTAAT  
GAAAACAAGTCCAAGTTTTACTCTCAGTGGGTTTGGGACATCAGATGTAA  
TTGAGAGGCCAACAGGGTAAAGTCTTCATGTCAAGTGTGTGTGAGGAACGA  
GCCTATGATGTCAAGTTTTCCCAAAGGGAACAAGGACAGAAGGGATTGT  
TCATTTTACATCTCGGTTCTGTAATACCACCTTTGACTTCATGGTTGAT  
CAGAATTTGAAGTCTAAACCGAACGTAAGCACTTGGGGGTATCGAATTTT  
AATACCTACCACAGTTAGGACAATTTTTTTTCAAAGGGCCATTATTTTTT

Table 2

TGGGGCAACCCTGGGGGGGGGGGGGGCCTTTTTTTGGAAAACCTTGGGGG  
ATATATTCTTTTTTTTCCCCCCCCCTTTTATAAAAAAAA

>Sequence 722

CCCTTAGCGTTTTTCGCGGCCGAGGTACATGAACCTATTAATAAACCATTC  
ATGCTTCCCAGTTTGGCAGATGTGAGCAAACTATGTATAGGAATTCCAAA  
GGTAACTTTTTCCTTTTATTACTTTACAGAAATACTGTCAAGTCCAATAG  
AGAGCACAGACTTGGGAGGCGGATTGGGTGGGTTGAATCTCTGCTCTGC  
CACTTTTATTAATCATGTGAGTTGAGTATGTGACTTAATCTCTTTAGCT  
CAATTTCCCCATCTGTAAAAATAGGAATAATAAAAAACTGACTTCAGAGA  
GGTTTGTGAGGATCAATTAGACAGTCATGTAAAGTCTGTAAATTGTTTCT  
GTAATGGGCAAGATAGCAAATATTTTAGATTTTGTGGACCATGCAGTCTT  
TATCATAACTGCTTAACTGCCATTATAGTGAGAAAGCAGCCACAGACAAT  
ATGTAAATGAAAAAGTGTGTCTCTGTTCCAATAAACTTTATTTTCAAAA  
ACCAGCTGGCTGTGCACATCTGGCCTATGGGCCATAGTTTGCCCATCTCT  
AATGTAAAGAAAGGACTTTAGCCCCAAAGCCACAACCTGCATAGTAATGCC  
TTAAAAAATGTTAACATCTTTACTGTTATTAATATTACTACTGCATCTAT  
TACAGTAGCAATTGAGTAATGAATACATGAATGTTATAATGGTAAATTAC  
TAACCTTTTAAAAATATTAAGCATTGGCATATTTTAATACTTTAAATCTT  
TTAGGAAGATAGTTACCCTGCAT

>Sequence 723

GGTACTTACTTTGTTGCTCTTTTTCTAAGTTTTAAAGATGGATGCCAATC  
TCAGGCTTCTTTTCGTGTGTGTATGTGCGTATGTCCATAAATTCTCTTCT  
AATTACAGTGTAAGCCACATCCCACAAGTTTTGATAGTCACAGAACTGTA  
TCGTCACACTATTTTTAATTTTCAAGTCTTCACTGATCCCTGTGTA  
ATTTAGAAATGTTTCATAATTTCCCTACATTGGAGGGGAAGATAGTTTTG  
TTTTATTATTAATTTCTAGCTGTATTGAGCTCTTGTGAGAGAATATGGT  
TTATTTTAGTCGCTTGAATTTAAGATCTGCTTAATGGCAAAATGGATGG  
TCAGGTTTTTGTAAATGGTGGCAGTAAGCTTGCAGAACATATGTACCTGC  
CCGGGCGGCCGATTGAAAGGGCTATTTCCCA

>Sequence 724

CCCTTTGAGCGGCCGTTCTGGCAGGTACTCCTCAGCTTGTGCTGCCCTT  
CTCGAATGACTCGCGTTTTCTGCTTTCACTACTACCTCCCACCGCTCT  
CCATCACCTGCTCTGCTCTTATAAGGATCCAGAGAAATGGAATAATCTTA  
TTGCTGATCTATGTAACAAGTTGAAGAATCGTCTGAAAGAAAAATACAGT  
GTGTCTAAACTGGAAAAGTCTGTAAATAGTTTGTTCATGAGCATTGTCAC  
AGTGGAGTTACTGTTTCATCATGGGGGTACC

>Sequence 725

GGTACTAACTATTCCTAAATATTAACACTGGTCAACTAAAATGCACAAA  
TTCATGAATTGGATTTGCACTCAAACAAAAAAAATACCATAGGCAGTAT  
CATTTCTACCTTTGTAAGAGGCAGGAATATTCATTAGACTCTATGCTTGA  
CTTTTCATATGTATTTTAACACTGTAGTAGGCTATCGGGTCTAGTTTAAAG  
CTTCATTTCTAAACTACTCAACAGCTCAGAACTGACAAAGATCACAAGAA  
ATCAACTATTAACCTCTTGCCTGAAGACACAAATGAAATATTCCCTATTT  
TACAAAGCAAATTAGATTCCAAGATTTTCCAAAGCCATACTCCTGCAGTT  
CACTTGGGTTCAAACCTTAAATCATAATAGTAATATACACATATTTACAT  
TATAACCCATTACACATTATTTTCAACTCAATGCAAGTCAAACAAAGGTT  
TCACAAAATAACCTTACTATGTGCAATACACTGGTATTTTCTATTCTACT  
CAGAATTTTTTAAATACCTATCATGAACCATTAATTTGCTTACCACTAA  
TGGAGTGACAATACCCAGATTGAAAACTGGATTAAAGAAGTAGTTTTTAA  
ACCCATAATGGTTATTTGGCATTACTTAGGCAAAAATATTTCTCGCTTTT  
ATAAATTCCTTACCTTTTTTAAGCAAAACCTTTTTTAAACCAATTAATAAT  
TAATGAAGGGCCATTTGACCGGTNAATATTTATTAGGGGTAAAAAAACCC  
AAAATTGGCCTAAAAAACCTTCAACACATTCCATAATGGAAGAATGTGGC  
GAAATAAATGTAAA

>Sequence 726

ACTCACTTAAATAAATAATTGGTAAGATGATTTTATCTGACAATTAATAA

Table 2

AAGGTATATGTGAAAAACCTTAAAAAAAATCTATTTTCATTACATGTTGAA  
ATGTTCTGTGCTTAATCCAATACATCATTTAAATTCCTTTTCACATTGGA  
CAACAGAAAAAACTGAAATCTATGGATTCCAAGCTGCAAAGTATTTTATCT  
AAATNGCAAATCAAAAAACATCTATAACATCTTGTGGGGATACAAAGTT  
CTCCTGGCTGATTCTCATGTACAGAAAGCCCGAGTTTCTGTTCTGTAAA  
TTGTGACAAAGTGCCCGCGTACCTTGGCCGGGAACACGCTAAGGG

>Sequence 727

ACATTCTATTGTTATCTCTATTTTTTGGATGAAAAAACAGCAGCACAAG  
AAGTTCAGTAACTGGCCTAAGGCCACACAGCTTGTCTTCCTGAAGACTGG  
ACCCAAACCCAGGCAGTCATAGAACATGCTGGTCGCTATTGGGCCGCTTG  
CTCTATGGGGGACGGTGCTCCAGGAACACAGCAATGCGGTTTAGGATTCC  
AGGACCTGGGGCAGCTGCTGCTTCTTTCTTAGTTCTCGACAGACCACTGA  
GTGCAGTTTTTCTAAATCTTTTCCCACTTTTGATATGTGGTCCATAAAAC  
TGCTTCCACACGTATAACCCACTGTGAAGTTTAAAATGATTTCATGTTG  
GGCAAAATCCTACTGAATGTTAAGCTAGATAGGAAACAAGTTCTGACTAA  
CACAAATGAAGGTCTGAATGAAGAAGTCTTACTTTTATAAAGGAATTTT  
CCCTCCTCACCAAAATCCAAGTTTAAATGTTGATATCTCTGTTGCAAAAGG  
ATGATAAAATAAATGGGTCCCTTGGTTAGTAGTGGGTGTATGGGTGTGGGT  
AATAAGGTATTGAATGTACATTTAATACTCCTTCTCATTCTATACTGGAT  
CTATCTTGAAATGATGCATTTTTTCATGTTTAAACATCACTTCCTAATCCG  
ATATTTTTGTCTCTTAACTATTATAATATTCTTGCCTTATATAAATTATA  
TATTACTCTAATCGCTTGCTTCTTTCACTCTACTATTTTATCATCAACAT  
ACTATTCGGTCTTCTGCTCTTACAACATGTAATTATTTCTCTACTGCTC  
GCTACACGACTGAACTTAACCAATATATCACTGTCTAGAAACTTCCAGCT  
TATCA

>Sequence 728

GGTACTTNTTTTTTTTTTTTTTTTTTTTTTGGTAGAGACGGGACCTCACT  
GTGTTGCCAGACTGGTCACAACTTTTGGGCTCAAGCAATACTCCTGCC  
TTGGCCTCCCAAACTGCTGGGATTACAGGGATAAGCCACTGTATAGAGTA  
TGAAAAGTATTTAAAAGAATCTTCCAAAGGAGGACAGCAGAAATGAAAAT  
AAAGTAAGTTCAACTAGAATCCTTGACACAACCTGGTTTTATTCCCAATG  
CCTCTTAAAAGAATCGTTCCATGGGTGGCAGGAGGGGTGTTTTCATGGT  
GTGATGCACCGTGACTTGTTATTCAAGATGTAGTCCAGTGTTCCATCTAT  
CACGTTTTATACCTTTTCAAAAAAAGGAAACCGGAAACCAACCAACAA  
CAAAAATTATTCCAATTAATGGGATTACAGCAACCTGGATGGGACTGGA  
GACTATATTCTAAGGGAAGTAACCTTAAGAATGGAAAACCAACATATGTT  
CTCGCTCTTAGTGCGAGCACTTATGAAGATTCCAAAGGCCTAAAAATTG  
ACACAATGGACTTTCCGGAACTCGGGGAAAAAGGGGGGGGAGAGGGATT  
AAAGATAAAAAACATCCTAACTTGGGTTACCGGTACCCTGCCCGGGCCGC  
CCGTTCTAAAGGGGAAATTTCAAGCAACTTTGGCGGCGCGTACTTATGGA  
ACCCACAGCTTGGTACCACAGCTGTGGTGTAATCATGAGCATAACCTGTTT  
CTCTGGTAGAAATATTAATCCGTCTACAATTCTCCACAAAATTTCAATC  
CGAAGCTTAAAAGGTAACCCCTGGGGGCCCTAAGAGAGAGCCAATCCG

>Sequence 729

CCCTTTCTGTTCTGCCGCCCCGGGCAGGTACTTATCAGGATGAAATCAGAAT  
CACAGTTGGCCTTTTGCCATAAGGGAAGGGTATTTGGAGAAGAGTCAACC  
ACCACTCATGCCTCTCCCCTGCCAGCAGCACCTTGGATTTTCTGGCTT  
TATGCCTCCTGTTTCCCCTGGCTGAGTAACTGCAGGCATTAGGTTCTCT  
ACACACGATATATTACAGGGAAATGGCAGCGATGGTCTGGAAGGGCAACA  
CTGGCCTTCTTCTCCTGAGCACTAAAATCCTAAACATGCAACTTAAAA  
AAAAATTCTAAATGTGAACACCACCTTTCAATAATTTATATTAATGTATC  
ATCCACCCCTTTTTCTTCTTTCAACGCCCTTCTTTCTACCCAACT  
CCAATATACCAATTTGTTTGAACAGTTTTACATTCTAAGTGTCCTAAT  
TGCTAAAGGAATGGATAAATTTGTTGTACCTCGGCCGCGACACGCTTAGG  
G

>Sequence 730

Table 2

ACTCACTTAAATAAATAATTGGTAAGATGATTTTATCTGACAATTAAAAA  
AAGGTATATGTGAAAAACCTTAAAAAAAATCTATTTTCATTACATGTTGAA  
ATGTTCTGTGCTTAATCCAATACATCATTTAAATTCTTTTCACATTTGGA  
CAACAGAAAAACTGAAATCTATGGATTCCAAGCTGCAAAGTATTTTATCT  
AAATTGCAAATCAAAAAACATCTATAACATCTTGTGGGGATACAAAAGTT  
CTCCTGGCTGATTCTCATGTACAGAAAGCCCGAGTTTCTGTTCTGTAA  
TTGGGACAAGTGCCCCGCGTACC

&gt;Sequence 731

ACTTTTCTGAAGAATACATCTTCGTTCAATGTGGTCGTATTCTTAATTTT  
TTCTATAATATTGCTTGTAATCTTTAGAGTTATGGTTTCATTTTTTGACT  
ATTAAATTTGAAATTTGTTGACATCAGCAGTTGACTCTTCTGTGTAGATCA  
TAATTTTTTAATTAAGAAGACACTCTCAAGTGTGAACATAAATTGTAGA  
GTAAATTCTAAGTGGAGGATATCGTAAATTCTTTTTTGTCTTGGTATTGA  
CATGTAAATGTTAACATATGTGAATAATTCAGTCCACGATTGTCACAGGT  
TCTATGTCTTTACCTCCTTTCAAATACTTTCTTTAACAAATACTTTGAC  
AAATTTATTAACATTTATAAGACAAGACTTACCAAGTTGTGTTCTGTTTAT  
GATTCCTTTAAATGTTTTCCAATACTTAGATACATCAAAATTATAGGACTT  
CTCAATTCCATCCTATTGTTACAGAATAATAAATTAATCAGAATAGGAAG  
ACCTTAAAGATCTTTCTCATGAGTTCAGATTTCCAGATAATAATTAC  
AGAAATTTCAATTTGTACCTTGCCCGCGACACGCTA

&gt;Sequence 732

GGTACTTTTTCTTTCTTTTTTTTTTTTTTTTTTGAGATGGAGTCTCGCTGT  
GTTGCCAGGCCGGAGTGCAGTGGCACAATCTCGGTCACTGCAAACTCGG  
CCTCCTGGGTTTCATGCCATTCTGCCTCAGCCTCCCAAGTAGCTGGGACTA  
CAGGTGCCCGCCACCAAGCCCAGCTAATTTTTTTCTTTTTTTTGATTTT  
TAGTAGATACGGGGTTTCACCATGTTAGCCAGGATGGTCTTGATCTCCTG  
ACCTCGTGATCTGCCTGCCTCGGCCTCCCAAAGTGTGGGATTACAGGCG  
TGAGCCACCACACCCAGCCTATTCTTTACTTTCTTAACTTTCTTTTAC  
TTTACTCTATGGACTCACCTGAATTCTTTCTGCTCAAGATCCAAGAAC  
CCTTTTTTGAGGTCTGGATCGGGACCCCTTTCTGTAAACACGACTGTATC  
CCCTTGGCAGACATATGAATCTGCACCCCCGCTTGGTCTCCAATATCCAG  
GGATGAACAAGGGAGGAAACCAGGGAAATGCTTACTGAGGCATCTTTTA  
TGAGCAGTCACCATGCTAGGCTCTTTACTAACATTGCTTTTTGCACTGTT  
CACAACAAGTCTGGATATCTTCAATTAGAAATGTGAAAACCTGAATTTCC  
GATGAAAAGCCCCACTGCTTTTGACTGGCGTGGCTTATATCGGGCTTTT  
GACCAAGATGGACTGAATGCCATCTTGTGTCAGAGGGACTTAGACATTTG  
AGGGAAGTT

&gt;Sequence 733

GGTACAAAACATATGTGAGAACGTATACTACTTCTCGGCCACAACACTAT  
TTTTAGATATTCATAAAATAACCTCTGATTGTGTTTTACATTGACCCAT  
TCAGTTCTGTCCAATCTTATAATTCTGATTAAATGTTCTGGGCCTCAAAA  
CTAATTTTTTAAAGGCCACTAACTCCAAATCTAGGAACAAAACACTCTGT  
AAGACTACTGTAACCTGTATAAAATTAACCTGAAAAATTCACCTACTCCA  
ATAAACTATGATTTATGTAGCTCATAAGAGGGTGAATTTTGAATATTTA  
CTCTATGAAAAAGCCTAAGCAATTCAATAAAAACTTGATAACTGCACGTT  
TAGTTTGCAGCATCTTGT

&gt;Sequence 734

CCTTTCTGTGTGGACGCCCTTTCAGGTACTTTCTCTGAATTTTATTAGCTA  
CATTAATAAAAGAAAAGATCAAATGCAATAGATAGCACTGTAATAGATTT  
TGCTACATTAAAAAAATCCATTTGAATACACAGTGAACATAAAACACCAG  
AGTGGCTAAAAAGTCCCTTCATGCATTTTACTTAGCAGAGAGCTCTTGA  
GAAAGACCCAACCAATAAACCCCAACCAAGCAAATCCAGCTACTTCTCT  
AGCTGAGAGGGTGGAAATGACTCCAAAATATTGTTTCAAGCTCAAAAAGCC  
TAAACAACCTCCACATAAANAACAAAAATCTATCTAATTGGACATTTAC  
CTTTTGGAAATAAAAGGCCAGTGGGAAAAAAAAAAAAAAAAAAAAAAAAA  
GTACC

Table 2

## &gt;Sequence 735

ACTTTTTTTTTTTTTTTTTTTTTGTCACAGACACAGGCTGGGAATTTCC  
CAAACTTTACAAGTTCTCGTCCCCTTTCCCTTAACAACCTTTTCGGAGTA  
TCTCCGTCCTTTACACTTTATTGTAAGCGAGGAGAGCAGCCAGGCTGCA  
CCTTTAACATTTTCATTACAGGATCTCAGCTCAGCCAAGTCCTCAGCCAT  
TTTGTAATGAGGATCACTTTCTCCGGTTCCCCGTGACCTGTCCCTCGCC  
TCTCTAAGCCTCAGCAGAAAGGCCTTCAACATCCACTTTTCCACAACAT  
TCTGTCTATGATACCTGCATTCTCTGAGATGCTAGAAGCTTTCTCTCCAG  
CTCTCCCCTTTCTCTCTGAGCCTTCACCCGAGTCCCCATTGATGTCCGT  
ATTTTTACCAACAAGCTCTTCACCGCTATGGAGGCTTTCTCCAGCAGGTC  
CCTGAAAACGTCTGCAGCATGTACGCGGGGAAGCTCTGTTTGGTGCTTTG  
GATCCATTTCCATCGGGCCTTACAGCCCGTCGGTAGACTCCAGCAGCCAA  
GAATGGTGAAACACTAACGAGAGACAGATTGGTTTTTAAGAAACCTTGG  
ACGCCTTGCAAGGATAAACCTGGAGTTAGTTGACTTTTACCCCCGGGGG  
TGGGGCCTCGGAAAAAGAACAAGCCCTTTTTTCATTTCCCTTCTTGAAAA  
GATTTCCAACGGGATTTTCTCTGAATAAATGTGGATGACTGCCCGGATGT  
TGCTTCAAAGGGGAAAAA

## &gt;Sequence 736

ACTTGTCTGCTTCAATAAAAATTTGTCTTTGATTTCACTGGTGGAAGGGTG  
CTTGATCCAGCTTTTGCTTCTCCATGAGGAGGACTCTGTTTTTCAGTTTC  
CGCTTTTATTTCTCTGAGGGGAAAAAAGAAGCATACATTATAAAACT  
GGACAGCAGAAAGACTGAGTAATTTCTTAAGTTCTATAAACTCATTGGGA  
ACTTCTACAAAAAGTTGGAAAGAATGCAAATTTAATAAAAAATTAGATGCT  
AAAAATTGTTTCATCTAAATTTTTTAATTCACACAAATAACATAAAACTAT  
ATGAATAGGTACC

## &gt;Sequence 737

GGTACTTNNTTTTTTTTTTTTTTTTTTTTGTTTTGAAAACCTTTATTC  
GGTTTCTCAGTAACAGTGATGCATTAAGAAATTCCTGTCTGCTAAACTTC  
ATAGCAAACCGATCCCAGTCCTCACCTCATTGTGTGGTAGCCCAGCAGCA  
GAGAAGATAGGAATTTCTGCCCCCTAGCAATACTGTTTCATCCCATCGAT  
GGCCGAAATGCCAGTCTGAATCATTTCTCTGGGTAGATTCCACATTGAG  
GGTTGATTGGCTGACCTAATGTATTTCCAAAAAGGAAAAATTTCAACAAGT  
TGCCGCATTATTTCATGAATGAAATTAGATATCATATCAAATTTAAAGAAA  
AGAAAAAGCACCAGAAGACCAGAATACTACATAAAGCATCTCTTTACTACAA  
AAAAATCAGTTATTTTCAAATATGAAACTTGAAATAATTGTTTCTTTT  
ACTCTTTTGGAGACTCACAAAACATTGGGTAATAGAATTCAAGTTCCTTA  
AGTGAAGATAAAGATATAGCAAATATGAAAGAAAAGCCTAATTTCAAATTC  
ATGGTGTTACCATATACATTTTCAGAAATATTCCAGATATTTTACACGATC  
TTAAGATATTAATACCTAAAATTTTACGATAATTTCTAAGAAAAATCTTAT  
TTAAGTATAAAAAATAATTTATTACCTATGGGACGTGTGGCCTATTAACCTT  
AAGGGAATCACAAAAACACTTTTATTTGGCAAAGGACCTTGCCCGGGG  
GGCCGTAAAAAAGGGCG

## &gt;Sequence 738

GGTACTATCTGCTCTGAATTAAAATTTAGAACAAAAATCACCTGCCGTGC  
CACTACACATGGACATAATCAACTGCTAAATTATGATTTGTTTTCTTCCA  
GTTACTTTTCCAATTATTTTACATATACAAATATTTTCTTGGTAGAAGA  
ACAAAAGTGGCACTATTTCATTGTGTAGTTTTTTGTAACCTATATTTTAC  
CCTAAGCATTTTCTCGTTGTCTTAAATTATTAATTGAAAAATTATTCATGG  
CTAAATAATGCCTAGGCTGCCATGAGTCTTTTCTCCTTCTATAAACCGTG  
TCAGCATTCTTTATATATATCTTTCAGCACATCTGCAATGATTTCTTTG  
GAATAAAATTTCTAAAGTTTCGCTGGATCGAAAAGATTTCAGGGATTTTATG  
GTTCTTTCAATTTGGCAAAAGTATTTTTCAGAAACAAGCCCATTTTCAGTTC  
TGAATAAAACAAATTTCTTTTATGTTGCATTTAAATCTACCTCCTTGTA  
GCATATGCAGGGGAAAAATGAATTATTTGGTCAACATGCTTTCAAATACTTG  
AAGAATGTCTATTTTCTTTATGACTATTCTGTGTTCTGGACTATACCAT  
TATTTTCCCATGATTTACATTGGAAGGTGGTGATTCAAGCTCAATGCATT

Table 2

AATTGCTTCTCCGAGGTTTTTAATAATAGATGAAGTGGTTAGCTTCTAAA  
TAAAGGATATTGTAGGTGGAATGTATAATATGGCCTAAGCCCACAACCT  
CCCTTGGTTTGT

>Sequence 739

CCCTTAGCGGCCCGCCGGGCAGGTACACAGTTTCCTTCTTCGAAAACAATC  
CAGAAGTAGGCTAGCAATGGTCACCCCTACATACTTCCGCACACATCTTT  
AAGAACAGGACACCATTACCACACCCAAGAAAACCAGCATTTAATGAATT  
TATTCAAGAGTATCATCCAACATACTCAAATATCCACAGCTGTTCCGAAA  
GTATCCTTCAATTCTGGATCCATTGATGGTTCACAGGTTGTATTTGGCTG  
TTACATCTTTTTAGTTGTTATCCTTCAGAGTAAAACTGGCCTGCCCCCTCT  
TTCTTTCTTTTACAATATTGACTCCTTTGAGGAACCGGGGCTGGATGTGGA  
GCATTCTCCATTCTGATTGTTTCCATGTGACCAGATTCCGGGTCAAA  
ATTTCTGGCAAGAACCCTTCACAGATGACCATGTATTGGTTATTAGGTAA  
CAATAGATTACTCAAGTAGAGAAGTGGGAAATTGTCTTTGTCCATTACA  
ATAAAATTTTTTGAATCTAGAATTCCTTATGATTCAATTGATTTCTTTT  
CTTTTTCTTTTCTTTTCTTTTGTGAAAACAGTTTCACTTCGTTCCCC  
CGGCTGGAGTGCCATGGCACAATCTCGGTAACTGGAGCCTTTACCCCTCT  
GGGTTCAAAAGATTCTCCTTGTTC AACCTCCTGAATAGCTGGAATATAGG  
GCCTGGCACCTTGCCCGCTGATTTTTTTATTTTAGTAAATAGGGTTTAC  
CAATGTGGCCAGCTGGGTTGAACCTTTTGAC

>Sequence 740

ACATTGTCTGCATTTTGAGATTTTCCTATTATCTTTCTGGTGTTGATTTT  
TGTTTAATTATACTGTGATCTACAAGCAACACTGTATTATTTCCATTCTT  
TTAAATTTGTTAAGGTGTGTTTTATGCTCAGAATGTGGAGTGGACTATTT  
TGGTGAGTGTTCCATATGGACTTAGAAGAATGTGTTTTCTGCTGTTGTTA  
AATGAAGTAGTCTATGTATGTCAATTATTGTTTGATGATTGATGGTGTG  
AAATCAGTTATGTCCTCACTGATTTTCTGCCTGCTGGATATGTCCATTTT  
CAATAAAGGTGTGTTAATCTCTATCTATAATAGTGGATTTATCTATTTCT  
CCCTGCAGTTCTATCAGGTTTTGCCTCATGTAGTTTGATGTTCTGTAAAA  
TGCATACACATTAAGGACTGTTAAGTATTCTTGGGGAATTGACCC

>Sequence 741

ACTTCAGGTTAGAGATGACTTCAATATATGTGCGAGACCTCCCAAGGTGA  
GCATCACACAGCACTTATCATAATCACGAAGCAGCTCCACAGAGGCTAAG  
ATGAAAACAAAAATCTCAGGAAATTTATGTTTATAAAAAATGATACTTGCA  
AAAAAATGAATGGAACCATCTCCATTGCTTATTTAGAGTGTTGACTCACT  
GAATAAGATTTTAAATTAGTCAATAGTATTGGATGCCTCTATATCTGCAT  
ATCAATAGGCTCATAAACAAGGTTGCTCAAAGAAGTGGCCATCAACCACT  
TGGTTTCATCTCTGGACACCACACTGTTATCTTCCTTTGGCCTCTGTCCA  
TAACGGGTCCAGGCTACGTGCACCAAGGAAAAGAATTGGGTCTTTCTCC  
CCTCACCTGGTTTGGATAGGAGGGGCCAGAAAGAAGTCAGGACAGACCAT  
GTGTGACTGTCCCTAACCCAAAGCAAGCTACCGTGCAGAACCCAAACCCA  
GGACAATAATCCCAGCCATGCCGGAACATGGGTTAGCTTGACCAGCACTC  
ATTACAACGATCCCAGCCTTTGTTTAAAGGTGCCAAAATTAGTTTCAAAG  
CAATGTCTAACCTTCCCCACCTTTAACAGGAAAGAACATTTTGAATAATT  
ACCAAAAGAAGTCCATGGACCTTAGAACTGACCAAAAAAGCTTTATCCTC  
TAAACT

>Sequence 742

GGTACAGGTTTCCCTTGCCCTCAACTTCTCATCCTGGGTGATGAGACTGTT  
ACTTTCCTTCTTGTATAAAGAGGGCAACTTTTCATGTAGAAATTTTACCTC  
CTACTTTTAAAGAAAAAGGAAAAATCAGAGTGCTTTTAAAGGAAAAATCAGAGT  
GCTTTTCTTGATCTGCTATTTTCAAGTGTCTTTAACTCAAAAAAATCA  
ATATGCCAAAGTGGCATGTTTGGGGGTATCTGGTTCTGAATTCCTTCAGG  
AAAGATAGAAAGCAAAAGCAAAATAATAGGTTTAAACTAAAAAATATCCA  
GGTGGGTGGCTCAGCCTATAATCCAGCACCTTGGGAGACTGAGGTGG  
GCAGATCATGAGGTGAGGAGTTCGAGACCAGCCTGGCCAACATAGTGAAA  
CCCTGTCTCTACTAAAAATACAAAAATTAGCCAGACATGGTGGCGGGCAC



Table 2

CTGTAATGCCAGCTACTCAAAAAGGCTGAGGCAGGAAAATGGGTTGAACC  
CCAGAAGCAGAGGGTGCAATGAACCCAAAACATCGCATTGACTTCAGCCT  
TGGCAACAGAACCCGACTCTGTTTCAAAAAAAGGAAAAAAGGAAAAAA  
AAGTCCCTGCCCGCGGCCGT

>Sequence 743

ACTCCTCCTTGGCAGCATCAATCAGGCAGGGCTCAGCCCACACCCGGCTC  
CTAAAGACAAGAGAGCAGAGAAAGCAGAATGGTGTITAGAGACCATCGCA  
GTGACCTGATCCTGAAAGCACCTGTAGGAAATTGGCCTCCGCCAAGTGAA  
TGTGACAAATGCAGTCAGCCACAGTGACGGAGTGCAAGATCGGATCACCAC  
ACAGATCCAAGAGACCGCTCACCACACCTGAGAAACAAGAACCCAAGACA  
GCCTCATGGAGGTGGAACCGTGCTACGCAGTTATGGCTTCACTACTGAAT  
GCGATCTTGCANAAGT

>Sequence 744

GGTACGCGGGTGTTTTTTTTTGGGTAATTTTCTTGAGTTAGAAATGTAGT  
TAGAACTGTGACTAACGGCATTGCCTGGAATGTGCTACAAACACGATTAG  
ATATTCAATTTATCTTCCTCGTATTAGACTGCTTGTATAGAGACTCAGTGT  
TTAGACATTCATTTCTCTTCCTTGATAAGACTCCTTGATAAGACTCGG  
TGTTCAATTTATCTTTTTAAATTAACCAACAATAATATAGAGTTTTTAA  
CCATTGCAATGTGCAATAAATAAATATATCTGAAGTAGCATTAGCCTTCT  
AGTTTTAAATAATAA

>Sequence 745

GGTACCTTTTTTTTTTTTTTTTTTTCGTCAAAGTCACTATTTGGGCCC  
TAACATAATNCTGCTCAGAGCGACGGAAAAAAGGCAAGCCTTTTCAAAC  
ATAACTCTCTCTACAAGCCAGCTATTATGGCAAGGGAAAAAAGAAAGCAT  
CTAGATAAATATCTATCAAAATTAACTTTAAGAGAAATACTCTCTTTCCT  
TAAAAGCCCTTATTTTTTAAAGACACTAGAAAAATAAGTTACTATAAAAAAGT  
GGTGGTCTGGGGGCTAAAAACAAAACAAAAAAATCCTCTTTTCTACATT  
TTTTAGTTTTCTG

>Sequence 746

GGTACTTTTTTTTTTTTTTTTTTATAGTTAAAATGCTTTACCTCAATGG  
TTGAGATATTTTGAATGGATTTTTCAAGGGGGGAAATGCTTATTATAAT  
AATAAACCAAAATACTTAACAGAAAATTGTGAGCTATTCTGACAAAAATA  
AACATTTTGAGAGACTTTATTTCTTTTGCCGTTTCTGTGGTATCACTCA  
TTGTCGTTAAGTAAGTAAAGCTTTTTATTTAGGTAAGAACTGATTTTA  
TTTTTAAATTATATTTTATTTATTAGCACAGAAGAATAATGAGAGCC  
ACATTTTAGTTCAACTT

>Sequence 747

ACTCTTTTGTTTAGGTATTTCCCTCCTGCTGTGTCCAGGATTGCTGTGTG  
GTGGTGATGAGTGCTGGGAGGTGAAAAATTAAAAATAAGCCATTTACCAGT  
CAGCATCCCAATTAAATATTTGATGTAAGTGTGATCTTTGAGCCAGGCTT  
ATATATTCATTTTCAAGCAGAGGAGTTCCCCATTTAAATAGAGGCATTG  
TCTGATGTGTTTATGGTTAACTGCATCTGGCTTGGGTCTTTCTGTTTTCC  
TTTCTTTGCTGAATTAGAAGGGGTACTCTGAAGAGTCCAGGTCTTACAG  
TGTGGTTT

>Sequence 748

CCCTTGAGCGGCCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTT  
TTTTTTTTTTTCATTCAAGAAAGATAATTTTACACTTATTCTTTGAAAGA  
AAAAATCTATGGAATTTCTTCTTCTAATTAAATTCCAAAATACATTCTC  
TCAACCCCTATGCCCTCATCTAGTAACCTTGATGGTTAGCGGGTAAGTAGG  
TAGTAGTAAAAGAGCAAAAAGGGGAAATTTGAGCAAAAAAGGGAGAAA  
AAGAAAAAAGGGACCCTTCTAGTTTCTTAATAGAAAAGCTAGAGAATTC  
CATTCCTGAAAATTAAAGATATTT

>Sequence 749

ACCACTCACTACATTACAAAATAGTCTCTAACATAAAATTGCCTTAATAA  
CTATACTATTATAGAATCTGATAAACCTTACATTATTAAATTGATTATAA  
AATCTTCTTGAAAAAATTTGGTATGTATCTTCAGAAGGTTTTTTAAAAA

Table 2

TAATATTTTAAGGGCCTGTAAACATTCCATTCTATTAAAGCACAGCAGAA  
TAAGTAATGGATATTCAACTGCATACAGAATATAGAATCAAAAAACAAT  
TTATTATGTATTTGTAGAAAATCATTACCAGAGTAAGCAAAAAA

>Sequence 750

GGTACATTTTGATTGTGGCATATTCAACTATGATTTTAGACAAGATGTGTG  
TGTGTGTGTGTGTGTGTGTGTAGACAAAATAAAATTCAGAAAGAGAAAATCT  
ATTCTACAATGAAATTCAATCTCTTACTTAGCTATTTTGAAATTGTGTCC  
CAATACCACATTAACAGAGCCAAAAATGAAATTTAAAATTATGGTTATACT  
ATTATTCACACTAGGTAGGGTCAGGTTTTTTTTGTCTGAATTAATGGCTC  
CTTTACGCTAGCTACTTAGGAACCACTTCCCATACCCTCAAGCTAGAGTA  
ATA

>Sequence 751

GGTACATTTTGATTGTGGCATATTCAACTATGATTTTAGACAAGATGTGTG  
TGTGTGTGTGTGTGTGTGTAGACAAAATAAAATTCAGAAAGAGAAAATCT  
ATTCTACAATGAAATTCAATCTCTTACTTAGCTATTTTGAAATTGTGTCC  
CAATACCACATTAACAGAGCCAAAAATGAAATTTAAAATTATGGTTATACT  
ATTATTCACACTAGGTAGGGTCAGGTTTTTTTTGTCTGAATTAATGGCTC  
CTTTACGCTAGCTACTTAGGAACCACTTCCCATACCCTCAAGCTAGAGTA  
ATAGATACCTGACCC

>Sequence 752

GGTACTTTTTTTTTTTTTTTTTTTTTTTGGGAGCCATGGCAATCTTTTT  
ACACTTGATTTTAGCCAAAAGGCCAAGAAGCAATGAAAGCCATGATAATC  
TTTTATGCAATGTTATCAGGTAAAAAATGGCTAAAGTATATTAGCATT  
TACCCGAGTGGTATTCTTTTATAGAACTCAGCTACTAAAACCAGGGAGAG  
TACTTGGTGTATTTCTGAAACACTCTGCCAAGTTGTGGATAGCTTCTGGT  
GGTAAGGATGGTATTGAACACGTTTACGTCTGTCCCCTTCTCCTTTCTC  
CTGCTTCATACAAGG

>Sequence 753

GGTACTTTTTTTTTTTTTTTTTTTTTTTGGTATTATATAAAATAATAA  
TGCATCTTACAGGGGAAGTCATAAATCCAATGAAATAAAGTATTTACCTG  
ACATATTTTTCCCATCTTCTTATTTCAACCATTTGACTGGTTGTCCAGCC  
CCAAATTGTTGGACTTTTTTAAACAATTCACACTGACTGGCAGTCTTCAC  
CTTTAAATAGTTGAGTTCCATCCCTTTAAAATCATTTA AAAACATGATTT  
TTAAATTTATCTCCATTACCTTATTTTGTGTTTACTTTTTTACTTTTATT  
TATTTCTCTC

>Sequence 754

GGTACTTTTTTTTTTTTTTTTTTTTTTTGGTGGGGAGCTGTATTTATTTCCAGG  
GCTGTCAAAACAAATATCCATAAATGGGGTGGATTAGAACAACAAAAATT  
TATTCTCTCTAGAGAAGAACGTTTTCTTGCCATTCCTGGCTGCTGGTCA  
TTGCTGGCAGTCCTTGTCCTTCCCTGACTAGTAGCTACATCATTCTCATT  
TCTGCCTCTGTCTTCATATGGCTGTCATTTCACTGTGTGCTTGTCTCTGG  
GTCTTCAAGTGGCCTTTTTATAAGGACACTGGTCATTGGATGTAGGGCCT  
ACCCCAATCCN

>Sequence 755

GGTACATGTTGGAAGGGTTTTTAAATGTTTTGAAACTGTGCACAGGCCA  
AACCCAACTTTCAAGACATGGGTTTTCAACTTCTGGATGGTATGATGGGG  
TGATAGTAGGGTATAAAAGTATCCTGAGAAGTTGAAAGCAGTGTGTGAAT  
GGGGTGTCTTTTCTCCCCACAATCCTTTCCCATCTGCTGACAGTAGACT  
TAGCACCTCACAGATGCTTGGGCCTGGAATGAAGCCATGAAAATGAAGC  
CCTCAGCCTTCTTGGAGATCAGAGCCATGGTCTCACCACAGCACATGG  
GTT

>Sequence 756

GGTACACAAAATATTAATAGGATATTTATTTCTAAGCCAAATTTAGAA  
AACAAATTTACAAACTTTTTTTAAAGTATAAACATAGTGTATGCTTACTAT  
AAAAGGAAAAGTATAAAACATTACTCAAGTATATATAGAAAATGAGTGGG  
CTGCTGATCCCCCTCTATATTATCTATTGCTGTGTGACAGTATTACCACA

Table 2

AATACAGTAGCTGAAACAACACATTTGTTTTCTCACAGTTTCTGTGGGTG  
AGGAGTTCAAGCATAGCTTGGTCCTCTGCAAGCTTACAATCCAAGGGTTG  
G

>Sequence 757

GGTACTTCTTTTTTTTTTTTTTTTTTAAATGAGTAGGAAGAGATGGTA  
TCACAAACACAAAGCACAGGTTACTGTCTTTAAAAATTTGCGTTCCTTCTA  
TTCTCCAATGGAAGTGGGAACAAAGAGAAAACCCCTGTGTGTCCTAGCAC  
AATATGGGCATTTGTGTGGATTTAATAAATGGGCATTTGGATTGTTGGGA  
AAATGTGATCAATCAGCAGGCTATAGAAACACAGTTTGATACGATGGTGA  
AAACTTGTCTACAATGATGTTTTTTCAGAAATGTTGGTGTGATTAGAACA  
AGTCAGCAATGATGATGACAAAATATTTACATAATGTTATAGATGTGGCT  
TGCTAATGGAAATACCTATCTGAGGCTGTTTAGGAATACACAAA

>Sequence 758

GGTACTTGTTTTAAAAACAATGTTGGAAATGAGGAAAATGAGCAATATCAA  
CATTTTATCCTGAGGGACAGGGAGTAGAAAACAAGCCAGAGGCTGCTAGT  
TACATAGTTCAGTCTTAGGGATGAAGGGATTTATGTCTCTCCTCCCTCAG  
GTACGCGGGGACTACACTGGTGTCTGACTTTTTCTAGAGATTTCTCCC  
TGAAAAATACAAGGGCTGTTGGTGAGAGCAGACTTGAGGTGATAATAGTT  
GGCCTCTGGTCTACAAAGATTTTATAACTCCTTGGAAAGCTTCT

>Sequence 759

ACTCCGATTGCCCTCTCCCATGCTTCTCTGCTTTCCAAAGAAAAAACTGAC  
CTTGATAGATCCTGTCTAGCTGATTGCAGTGCTCTTAACCTCTCCATTGT  
GAGTTGTTCACTCTGAGGAGTTAGGTATAAACCAGAGTGGTATTCTCTT  
TTCTGTTGTGTTTGGTTTTGCTTACATATTCAGGAGCTGCTCTTTACCCC  
CAGAACATCCGTATATATGTTTTTCTGTTTCTAGATTTAAAAATATTC  
CAGAAGCCTGGCCTCAAGATAGATAATATTTTACTTTTA

>Sequence 760

GGTACTTTTTTTTTTTTTTTTTTTTTTAAAAAAATATCCTTAATTAG  
GTAAAAATTCTCCTTTAAATTAACCTGAAAGTTTTATGAAAAAAGGATGT  
TGAATGGATTGAAATGCTCTTTTTTGCATCGGTGGATATATTTTTTAAAT  
TTTTCAAGCGGGTAATTGGGTTATTTAATGGGGGGTTTTTTTTAAAGTTT  
AAGGGA

>Sequence 761

GGTACAGATATAAAAAAGGCTACTATTCCAAGAACAAAATCCTGGAAACAA  
ATGTCTATCAAGAAAGCAAAGATAATCTAACAGCAGCATATTCATAGGA  
TGACAAACTATTCAACCATTATAAAGAAAACCGAATCAAAAGCACTGGCT  
TATTAGACAAGAGTTTCCCAAATATCATGCTAAAACAGTAACAGCGAGC  
TTCCAAATTAATGTTGCCTTTTTTTTTTTTTTTCCAACTGAAAGGAGGG  
TGGGGAAAACAAACGCATCATATGTAAAGCACTGAGTCCAGCCTG

>Sequence 762

GCGCCCTTCGGCCGCCCGGGCAGGTACGCGGGTATGGTTTTACGAACAAA  
TTTTTAAGGAAAAAAATTATCATGGTTCTAATCTTACATGTTAACATTTT  
CTTGTTATGTAGGGATCAGACTTGTATAACATAATTCCACTTTATAATT  
CAATGAAGAAGAAAGTTTTGTCTGATTCTGAGGTATGTAATATTTCATTA  
TTATTACCATATTGATATTCTCTATATAAAAAAATTTACATATTGTAGTT  
TTCAGGTAAAAGCTGTTGTGAACATTATTTTTGTCTAGTGTAGTTAATT  
TAAAAAACAACCTGA

>Sequence 763

GGTACGCCTAAGGGAGAGCTGGGAACCTCATCAAAGAGACAAAAAGATGCT  
TTTTTGCTCTGAAGGCATCGCTGTGGTGGCTTGGTGCGCAAGTAAATATA  
GTTTGGGGGCCCCGATTGCCATGGACTTTGGCTTTTCTGGTGGGAACAA  
ATGGCCATCAGGTGGACCCAACCTTGCACACATCCCAAAGACCTGGCACT  
CATCTTGGTATGAAGGGAGGTTAAAAATAAAAGTGGTTGAACATCCTCTT  
GGATGTGTTTAGGCCAACCTTGGTTACAAGACCCCTGGAATATTGTGTTT  
TAAAAGGGGGGTAGGTTGGGAATCCAAAAACCTTGGGGGACAAAATAAG  
TTTCAATCCGTAACTTGTGAGAAATTTCAAATTTTATTGGTTCCCCCAA

Tabl 2

GTATTGAATTAAAAAAAAAACCCAAAAATTTGGGGGAAGAAAAAAAAAGTT  
TTGGTTGGGGGTTGGATTGTTTGGGGCAATTTACCGGAACCGGAAGTGC  
CC

>Sequence 764

CCCTTACCGGCCCGCCGGGCAGGTACGCGGGATTCTTTGAGTGGGAATC  
TCAAAGCAGTGGAGTAGGCAAAAAAAAAAGAACCTCTTCATTAAAGGATTAAA  
ATGTATAGGCCAGCACGTGTAACCTCGACTTTAAAAAATTCTGAATCCCA  
TATTGTAGGTATGGTTTCAATTGGTCGTCGGCAGGGGGTAAGTGAATCCT  
TGGGCAGGTCAACCATAGCCTTCTAACTTTGTTTAACTTTTTTAAGCCT  
TTTTGATCCAAAAAATCTTTAACTTTTTATAAGGGAGCCAAGTTTTTC  
AAACTTCCCTTAAAAATGGTTTGAAATTATTAATTAGGTCCCAGGTAAAA  
ATTTCCACCCAAGGCCTTCCACCAGGGGAAATACCCAGGGAACTTTTTG  
AAAGTGGGAAAAAAAAAATTTGGAAATTCTTCTTGAATTAACCTTAAAA  
ACCAATTTCAAAAAGGAAATTTCAAAAAAT

>Sequence 765

GGTACAGAAGCAATGTTTTTTGAAAGTTTTCTATCTGAGGATTGTTGAAT  
CCACAGATGCAGAACTCATGGAAACAGTGCCCACTGTATGTCACAATTC  
AGAAAAATCAGTATTTTCATACAATCAGCTAATAGCCTAATTTGTTGAGCAC  
AGAAAAATACACTGAACCAATTCTGATTATTGCAGAGAAATGATTGGCAG  
GATATTGGGAAATAGAATGAAGGGCGGAAAGAATTTACATGGATTCACT  
ATACTCTCCGTCAGGAATTTTTGTTCCCTTGATCTTTTTGTGTTTATGC  
CTTATTTATTGGGGCCCTCTCATAATAGGTGGGTTTTCATCCTAT

>Sequence 766

GGTACAGAAGCAATGTTTTTTGAAAGTTTTCTATCTGTGGTTTGTGTAAT  
CCACAGATGCAGAACTCATGGAAACAGTGCCCACTGTATGTCACAATTC  
AGAAAAATCAGTATTTTCATACAATCAGCTAATAGCCTAATTTGTTGAGCAC  
AGAAAAATACACTGAACCAATTCTGATTATTGCAGAGAAATGATTGGCAG  
GATATTGGGAAATAGAATGAAGGGCGGAAAGAATTTACATGGATTCACT  
ATACTCTCCGTCAGGAATTTTTGTTCCCTTGATCTTTTTGTGTTTATGCCT  
TATTTATTGGGGCCCTCTCATAAGTTGGGGTTTTTCATCTATCGGTACTCCT  
TTCCTGTCCT

>Sequence 767

GGTACAATCAAAGGAGTCTAATGGAACCAAGTAGCAATGTTCCCGAAAAAC  
AAACAAACAAAAAACCCCAACATTTTGCTGTTTCTTTCCCTCTGTATT  
TGCTAACTTTATCATGACTTTATTCTTAAAGCCTATCACTGGTCTGCTTT  
TATTAATAGATTAGTGGAAATTTTACCTGGCCTATTAGCACCTTATAAA  
GAAATAGATTAAGAGTAGGAAATATATAGATGAAGATGTACTGTATAGAA  
GTTGTGTAATAATCAGTATGAAAGTTCAATGTTGCTGTTCTTGCTCAGTGA  
TTTTAAAGAAATTGAGTAGTTCCTATGTGATTTTTTTTTTTCTTTTCTAA  
ACTGG

>Sequence 768

ACATATACATTATGTAATGAAAAAGCGTGCATGGGGATGAAAAAAATTT  
TTTTGTTTATATGCGGATACAATATATACAATAAACACCTAAACCGCAG  
AGGCTTGCTTGTTATCCACAATAGTTAATACCCAATAGTAATTAATGGA  
TGTGGTATGGTTAGACACCAGTACAAAAAAGCAAGCGGGACGTTATTTAA  
ATAGGGCAAGAACACCACAATAAGCCACCACCAAAAGGCAAAAAGGCAAA  
AAAAGCACCGCCCAAGTAAATTGTTTGTGGGATTGCCAGTTATTTCAA  
GAATTTTTGTTCAATAATAAGAACAAATTAATAATTCAGGTTAGAACCAC  
TTGTTAAATTAGGTTTTTTTTGGGTTACCCCTTCGGGCCCCGGCTGACACA  
CCGTCTTAAAGGGGGCGGAAATTTTCCCAAGCG

>Sequence 769

ACTTATTTTTTTACTAAGGTTTTGTTTTGGAGACTTGTGTTGAAATAAAGT  
GATCCTCATTCAAGGATTTAGAAACAAAAGTTATACTCCACATGCTAGGGA  
TTAGGAAGGCTAATGTGAACGTATCAAAAAGTATGAATTATGGAATGCCTT  
TAGAATAATCAACTTTTAGGTAATTGTACTGCTATAATTTCAAGCTTA  
GAGAAAAGTTGTAAGAATGGCATAAGGAACTCCTATATATCCTTTATCTA

Table 2

GATTCACTAAATGTTCAATTTTGTGCCATTTGTGTTATTCTTTGTCTCATC  
CTAGCCCAGTCAGCCTAACACCACCAGGGATAAACAGTAGTCTGATAA  
>Sequence 770  
ACCTCTCATTTGTCACTTTTCAACACTTCCTGGCAGGCAGGCAGCATAAC  
TGGTCTGCTGCGGACCAACACACTCTGCAACTCTTCTTCTGAGCCAGG  
CTCCCCTACTGCTTTTCAATTTATGTCAAGGCAGGGGAAGACCTCAAAGG  
GCTCTTGCATCCCAGTCTCACTTCCCAGAGAGGCACGAGGCCCTCCAGGA  
TGTGGGGACAGGAACCTTTGGGGCAAGCCGGGGCTGTCCAGAAGATCACCA  
GGAGGGCTAAATAGTAGAAAGGAGAGTCTTATTGGTGATATGTTTGCAAA  
CTGGGAAAAGATAGCCTCCAGTGTGGAGCAAAGATGCTCCTTCTTCAAAG  
AGGGCAAGGGCAGCTTGGATTTTGTGCCTTACAGGGTCGGTATTATATAA  
TAGAGTCATGCATATTCAGTAGGTTTGGGGGAAAAGCTATATATTTAT  
GAGGGGAGCCAACTACATGGGCAATGGATAAACATACATGTAACACATCC  
CATGTTCACTTANGGGCAGGATTTTAGCATTAATAATGAGGTGGAATTTGG  
CTCTTTACATCAAAAAGTGAGCTATCAGACACAAAGGCGGTTTGTGCACA  
AGCTCTCCAAAGGACTNGAGGGCTACAACCTGCTCATTTTGAAGAAANTC  
TGTAAGACCAGCCTTGTCAACCAGATTAGGAGGCATCTGACAATTGCCTG  
ATAACTGTACCTCGGCGGGACACGCTA  
>Sequence 771  
GGTACAAATAAAGTATTCCAAGGGTGCAGAATNGAAAAGGAAGGCAAACA  
ACTTGTGGACATTTGGGAAATTGGGATATCCTTTGGGAAATGTAGTAAT  
CAGTATATTCTGGGAAAAACATTATAGAAGAATGAATAAATAAAATTCCA  
TTGAATTTGGAATATGTTGTCCATTCTTCCCTGTAACATAATGCTATCAAG  
ATAAAGTTAGAAATACCACATTTAGAAACAGCTGGAAGTAGACAGGGTC  
TTCATAGGGCTAGCTTGGGAAACCTAAATAGCTATTAAATAAATGAAATT  
TTTAAGTTATTACTTCTGGGAATTCTAAACAAATGAAACACACCAGTGAA  
TCTTTTTTTGACCTTGGCTGC  
>Sequence 772  
GGTACCACCAATAATGATGCCACATTTGTATCCTAAAAAAAAGTGATTT  
CTTGTTCCTTTGCCTACAAGAACATGTTTTCTGTTCCGCAAAGGAGAATA  
AGAAAAACAATGACCCCTTCCATTCCCATAACCCAAAACTAAACTTCC  
AGGGAGTTGAATTAGAAATCCACCCTGTGGGGCATTTTTTCCCCCCTAA  
ACCCACCCCTTACTCTTGTAGAATTCTGGATTAAGGCGGCTTCTTTAA  
AGAAAGCCCTACCAGGCTTCTTTCCCCCAATTACCCCTTATTCTGAAAA  
AGCCAAGGGAAACCCCACTTGTCTTTTGGGTCCAGGGAAAAACAGGGC  
CATTTACAAAACCATTCAGGAATGTTGGATTTTATTAAAAATGGGGCGC  
CACCAAATTTCTTAAAAAAGGAAAAAACCCCAAAAAAATTAATAAA  
>Sequence 773  
GGTACTATCATCCCCCAAGGCCTTTTACAGTCTGAAATATCAAAATTGAA  
AGCAAAAATAGGATGACCAAAGGAACCTACTATTTACCTTCTTTTACGGA  
ACTTCTACAAATAGTTAGAATACTAAAAATTTCCCTTTATGGGAATCTTCA  
AGGGGGGGAATATAAATTGTGCCCATGTTTGGAAAGGGGGCATAACAGATG  
TATATGGATGTACCAAGGGCTCGGGCATTTTTTTTTCAGAGATGGATGGGG  
TTTCATTAACCTGAAACAAGGTAAGGCCAGTGTCTTCCCTTTAAAAACCA  
TAGGTGCTGTTTAGGCAACCCCAAGGCCACCCAATGGAACATAAGGGGCCAT  
GGCCTTTTTAAAAAACAAAAATTTTCTTATGGGAACCTTTAACCGCCC  
TTTCTTATGGGGGCCCTGAATTTATGTTATAAATGGCTTTAATTGAAG  
>Sequence 774  
ACATATACATTATGTAATTAATAAAGCGTGCATGTGTATGTATTAATAA  
ATGGTATATAAACAATAACATAATATAACAATAAACACCTAACGTCAGA  
GGGCTGCATGTTATTCCACAATAGGTAATAACCAATAGTATTTAATGAA  
TTGTGTAATGTATGACAACAAGACAAAAAAGCAGCGGGACGGTAATTAAT  
TAGGGCAGAAACACAAAAAGGCACCAACAAAAAGCCAAAAGCATAAAAA  
GGCATCGGCCAAGTAAATGGTTTGTGGGAATGGCAGTAATTCAAGGATTT  
TGGTCCATTATTAGAACATTAATAATCCCAGGTAGGACCACTTGCTAATT  
AAGATTTTTTTGGGTATTTTTTAAACCTTGGAGGACCAAAAAATTTGGGG

Table 2

## &gt;Sequence 775

GGTACTTTTTTTTTTTTTTTTTTTTGGAGAGGGGTCATCCTCCAATCATT  
ACTACTTCTAATCTTCACTGCTACACAGAAGTTTCCAATATTTTAGCAAC  
AGATGGCTTTGCTTTTACCTTATAGATGAGGCCAAAGCACCAGGTAGGTG  
GAAGGTTCTTGTATCGGTTTGAACCCCGACAGCGCGCAACAGACAACAC  
GAGGCAGTGGGGAGCAACACGCTGTTTTAACGAGCGCCTGGGTGCAGGCG  
TGCTTGAGCTGAAAATGGCATTACAGCCCCAAGTGAGGACAGGGCAGGGGT  
TTTCACAATCCCTTTGTAAACAGGAAGTTGTTCCAGCCTGATATGATTGCT  
ATGTAC

## &gt;Sequence 776

GGTACTTTTTTTTTTTTTTTTTTTTGGNCTGCCGTGGAGAGGATG  
GATGGGAGGGGGAAGAACNAGAGCTTTGTTTAGAGGCTGTTGTAGTAATC  
CAGGTAAAGGCTTTTAATCATGTCTGAACAATGATCAGCAATGGCAATG  
GAGATGACAGAACAGAATTTAAGAAGGAATAAAAAAGGCTTGCTGACTAC  
TTGGATGTGGGTGATGCTATCCTTTGACACAAAGGATTTAAGATGAAGAC  
CATTTTTTGGGGGTAAGTAAAAGGTTTGGATTTTTTCATCTTACAGCTTT  
TTTTGTACTATT

## &gt;Sequence 777

GGTACTGCAAGCCAAATGCAATGAACAAACCAAGGTTATTGATAATTTTA  
CATCACAGCTCAAGGCTACTGAAGAAAAGCTCTTGGATCTTGATGCACTT  
CGGAAAGCCAGTTTCCGAAGGTAAATCGGAAATGAAAGAACTTTAGACA  
GCCAGCTTGAGGCAGCTTGAGAAACAGAATTAACATTTTAGAGAATTGA  
AAAAAGAATGGCTGAAAGTAAGCAAGGGCTTAGTAGCCATTTAACCAAGA  
AGAGGCTTCCAAGGGGGAGAAGAAGCTTAAAGGCTTTACTAAACCTTTTA  
AGGAAAAAATTTTGAAGTGAAAGTCCAGTTCAAAAGTGAAAAGTAGAACT  
TTTGGGAAAAAAGAACCTTTCAAGAATTTTTGGAAAAAGAAAAAAGTTT

## &gt;Sequence 778

GGTACTGGTTATCAGGATAATACTAGCTTCACAGAAGAAGCTGGGAAGTA  
TTCCCTCCTCTTCTATTTTTTTGGAGGACTATGTGAAGAACTGGTATTAA  
TAAAAACTCCTTATTAAGGAAATTTTTTAACATACCAAAAAATAGTAAGA  
ATAGTATCATGAGTTCCTGTGTGATTCCCGCCTAACTTCAATAATTATC  
AATAGTCCACCATTCCTATTTTACTTATACTTCCCTCCCAACACCTTA  
CTCTTTTGGCGGGGGCTGAAATTATTTTAAAGTAAATCCCAACATATCA  
TTCACCTTTAAATACCTTCAATGTATATCTCTAACAGATAAAGACTTTTTT  
TA

## &gt;Sequence 779

GGTACTACGAAGCTGCAGATCATTACGCTGATATGAATGACTGCTTGAAA  
GAACAATGACTCTGGCACAGCCACTGCTTTTCACCCAGGAAAGCAGTTT  
TCACAGAATGGCTTTGATTTATACTTTGCACACCATTTGAGAGAATAAAAA  
GAAAATCTAAAAGTTAGTCTTAGAGCATACAAACATTCTATATACTATTT  
CATCAACTTTATGTGATAATGATATATAATTTATATACTGAAATTATT  
TTCAGATCCACTTACTGTGCTTAAACCGAAAAGTGAATGATAAAGAGCAAT  
GAATTATCTAATGTATCTTTATAATTAAGAAATCAAG

## &gt;Sequence 780

ACAGACAGTGTGATGGATGATGCTGCTGGTTGTAAATTTTCATCGTGTGTG  
TCTAATTTTTTTTCTGTTGAATGGGTAAAAACAAAACAAACTTTTTTT  
AGAAGATGAATTTTGTGTGATGTTTTTGTGGAAATGAGGGATCCGTTGA  
GCTTCACTATCCACCTTGGAAAGTTTGAGTTTGAAGCCATGAAAATTGGTT  
GCCCCATTGCTTGACGGCTTCAACCGCCTTGGAAATCTGCAACGTTGCC  
CCTTTGTAAGAGGGATTCTTTACCCGTTCTAAGAGAAGGCATAACCGC  
TTTTCTGGAAAAACCTAACTTTGTCTTTCAAAAAAGAACCCCTCTGGAG  
ATTTAAACCGTTTTCAAACCTGCTTTTCAATTAAGA

## &gt;Sequence 781

GGTACTTTTTTTTTTTTTTTTTTTTGGCGGATGAGTCTTTTAATAGA  
AAAACACACGTGCAACAGTATCAACACACATTTTTTGGCAATCCTGACAG  
CGCTGAACCTCAGTTCCTCACCTTGGGGGGTGGCCTGTACATATCAAAAT

Table 2

CTATCAAATTGGACCCTCAACTATGCATTTTTCTGTGTGCAAGTTATATC  
TCAATTACAAACAAACAAAAACACAAAACCTATGGTTAACCCAAAACCT  
AAACTATCACCAAGAAATATCAATTGGGGTTATGGCATGACCATCCTCCC  
CAAGAAAATAAAATGCTTGACAGATTCTGAGCGGGACAAATTTCACTGAT  
CATATCCCAT  
>Sequence 782  
ACAAATAAATGAGTTTGCAGTGAATTGGGCCTTCAAATTACCTCAAGTGA  
CAGATAGTAAGAAAAGCTTCTTGAGCAGGTGGAGGTCACTGAATCCCCTA  
CTATGCACTTATCAAGATTTTACTTACTTTAATTTACTGGAAATTGATTT  
TTTAAAAAATGACTACACTGTAACAAGGGAAGGGATCTGGGTTTTTTTGT  
TGTTTTATTCTTGTTTTTTTTTAAGTAGTTCAAATTTCTGAACTGTGATTT  
AAAAATTTTTTACAGTCAAGCATTCTGATTTTGAACATAACTCCCTTCCC  
TTTCTGTGTAACAAAGGTCTCTCTGTTATCTCTTAAATTTTGTACATCT  
CCCTCAT  
>Sequence 783  
GGTACTCTTCACTGTCTTTGCCATGAAACTTTATAACATGGCTCTCCAGG  
TGTTGAATCTGGTGCCCTGTCACCCTGTGCTCAGGGAACACATGGCGGCA  
ATCAGCATGTGAGGCGCAGAGGGAGGGCAAGCTCCCCTTGATATTTGA  
GGTATCAGCTGACTCAAGTCTCTCTCCCTTCTCTCCTTATTCTCATGCTA  
CCTCTCCCAACCATTTGTCTTAACTTCCCTGGCCAGGATGCCTGCCATATT  
AGATGGAGAGGAGGCAGTTTCTAAATGGCTTGACTTTGGTGAAGTCTCAA  
CTCAAGAAGCTCTGAAATTAATCCACCCAACAGAGAACATTACCTTCCAT  
GC  
>Sequence 784  
ACTACTCGATTGTCAACGTCAAGGAGTCGCAGGTGCGCTGGTTCTAGGAA  
TAATGGGGGAAGTATGTAGGAGTTGAAGATTAGTCCGCCGTATTCGGTGT  
ACCCCTGGGAGGTGCCAGTCATTGAATAGATAAGGCTGTGCCTACAGGAC  
TTCTCTTTAGTCAGGGCATGCTTTATTAGTGAGGAGAAAACAATTCCTTA  
GAAGTCTTAAATATATTGTACC  
>Sequence 785  
GGTACAAGAGGATATGTGTGCATTACATGCAACCACTACACCATTTAATA  
TCTGGGGTGTGAGTATCCGTGGGTTTTGGGTATCCGTGGGGGTCTGGAA  
CCAATTTCTCCTGGATACTGAGGGATGACTGGATTACTGTGTGTTTGTGT  
GCTTGTTTTTAAGCTTTCAAAGATTATGTGATCTAGGAGTTGTTAGATTT  
TATTATTGGTCTTAAAAAGATAAGCTTAGATGTGTTACTTTTTTGGAGTTT  
TAGTTTACAGTGATTCATGAATCGGGCAGCTTCAGACCACAGGAGACATG  
AAGCAGGTAGAAGTTTAAGAAAGCTTGACAAGCAAAATATTTGATTTGGT  
TAGAG  
>Sequence 786  
GGTACTAAAACTAAAACTGAGCAGTTTAAAACATTCAATTTAAAGGGATAT  
CTAATGTGTTTATTATTAACATAAATAATGTTTTATGAAAAATGTAACCT  
TAGTTTTCCAAAACAAAAATGTTTAGGGCAAGAGTAACATTATTTTACAT  
TATTGCATCTCAGTAAAAATAAATGGCAACAAAATTTCTTATATCTGCTT  
CTGCAGTTAAATCTGTTCATTTTGTTTTGGTTGAAATATATGAAGGAAAT  
CTGTCCTCACACAGTTGTGTAGTGAAAAAAGGGGGACTATTGTAACAGGC  
TGTGCACATTATTGGGGATGATTTTCTTTGATACAACAAC  
>Sequence 787  
CCCTTTGAGCGGCCCGCCCGGGCAGGTACGCGGGATTCTGGTTAAGCAGG  
CATTGCTTTGCCCTGGAGCAGCTATTTTAAGCCATCTCAGATTCTGTCTA  
AAGGGGTTTTTTGGGAAGACGTTTTCTTTATCGCCCCTGAGAAGATCTAC  
CCCAGGGAGAATCCTGAAGACATTCTTGGCCTACCTTTTACTTTATTTAG  
CTTTTCCCTCCCTCATTTTCATTTCTTTATACACCCTTTTCCCTTTTTTGGG  
AGAGATTGTTTATTGCCAATGAATTTTTTTGGGTATTTTTATGTTAACAA  
AGGAATTAATTTACCTAAATTTCTATTTTCCCTTTTATGTTTTTAATTCCT  
AAGTTAAAGAGAAAAATGGTTTGAGGGGTCAAAGCTCATACCAAAATTA  
CCTAAAGGCTGAAGGGTTAGGAGAA

Table 2

## &gt;Sequence 788

GGTACCTGCAGGCCTCCTACACCTACCTCTCTCTGGGCTTCTATTTTCGAC  
CGCGATGATGTGGCTCTGGAAGGCGGGAGCCACTTTCTTCCGTGAACTGG  
CCGAGGAGTAATCGCGAGGGCTACGAAGCGTTTTCTTGAAGATGCATAAA  
CCAGTCGTGTGCGGACCGCGCTTCTCTTTCCAGGAACATTCAAGGATAGC  
CAAGCTGGATAGATGAAGTGGGGGTAAAAAACCTCCAGGACGGCCTATGA  
AAAAGCTTGCCCATTTGGGCCCCCTGGTAGGAAAAAAGCCTGAAACCCAGG  
GCCCCTTTTTGGGAATCTTTCAATTGCCCCCTTGGGTTTTCTTGGCCCTGC  
AACGGGACCCCCCAATCTTTCTTGTGGACCTTTCCTTGGGAAGACTTCA  
ATTTTGCTTA

## &gt;Sequence 789

ACTTTAATTTCTTTATAATTTGTTTCAGCTATTTAAAAAGATAATCCACAA  
TCTCCTACCGCCATTAGAGCACAGGAAAAAATTCAAAAATAAAGGAA  
AAACATGGCTCATATATCTACAGAAAGTCACAAAAATACTATAGGGCACAT  
ATACCCAGGCCTCAGCGGTGGGAAGAAAAACATACAACCACCGGGCAAAAT  
GTTTGAACACTGAAGACGGGAATTTTTTAGGGCCATNTCAAGACCATGTT  
GAAGGTAACCTGGGAAAGTCCTGGATAGAAATAGATTAATAATN

## &gt;Sequence 790

CCCTTAGCGTGGTCTCTGCCGAGGTAAGTCAAGTCGCCCTTATGGAGCCCT  
TGATTACAGGCTTCAATAGTGTGGACAGTGGTGATAAGAGATGGTAGGGAA  
TGAAGTAAGTGTTTTTATGTTCCGTGTGTTATAACACCTGATTAAGAGA  
AAACAGAATGATGAAAAAGTCAAGGTGGAGGCAAGATTCCACCCCTCTCC  
TACATAAAATACAGAAAAAGTCAAGGTGGAGGCAAGATTCCACCCCTCTCC  
AGCAGAATTGGCATTCTGCGTCTTACCGGCTTCTGTACGTTGGATTTC  
CGCTGTTTCTCATTTGCCTCATGGAAATAGTTTCATATCATAGAAAGGC  
AAACAGGAGCTGAGCCAGTTGAAACTGAAGCCTACAATCTGAGGTGGGGG  
GTAATCTCGAGCAGAGGTGCTAGATGGTGAGAAAAACAAGTANGACTTTTCG  
GCTGATGGGTAGAAACAAGGACCTTAATAAAGAGTATTCATGTGCTCAAG  
AAGAATAACTTCTGGCTAATTCTTGTCTGTTGTCTCGTTTTTAAATTATT  
GGATATATGTTGTCTGCTCTTAAATTAAGTGTGTTACAGAAAGTCTACAA  
AAAAAAGAGTACCTGCCCCGGGCGCCGTTTTAAAGGGCGA  
TTTCCACACACTGGGGGCCGTACTTATGGATCCAGCTTCGTACCCAACTT  
GGGGTAATATTGTCTAACTGTTGCTGTGGGAAATTGTTTCCCCTCCAATT  
CCCCCACATT

## &gt;Sequence 791

GGTACTAATTTCTTTTCTCTTTCTTAGACCGATTCTAGTTTGTGTCCTTC  
CCTTTCTCGGAAACCCCAAGTTTGGGATGCTGCAGACACTCTGTGCCCC  
CCTGCATGCTGGGTGCCTGGCCAGCTGCCAGGGCATAAAGACAGAGACGA  
TGTGGCCTTTGTCTTAAAGATGAGGTTTGAAGCCTCAGTTCTTCCATG  
TTAGGTGATTCTTTCAGCTCTTGGTATCTGCAGAAATTAGTGTGAATGCT  
TAAAAAATATTAACAGCTTTATATCATCAAAGTTTAAACAGT

## &gt;Sequence 792

GGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTGAAGCTGAAGGCCAC  
AGTAGCTAGCTAAAGGCCACACCACTGAACACTAAAACTTAACCTTTACT  
GGCTACTTTGTAGATAACATTACAGCTCACCATGAATGCAGCTGCAGTC  
AACTAACAGATATGAAGTTACCACTGTATTACATGGTTATATTAGGGACT  
GCTTCTACCTACTGGAGGCTGGGGAGGAATGTAACAGCACAAAGCCATAAT  
GAAGTTTATATACAGGCTTAATATAAAAGAAAACCTAGAATGAACTCAA  
CACAATTATGT

## &gt;Sequence 793

ACCATGCAGGGATAGCTGAGTCTTCATCCTCCTCAGCCCCCTATCTGTTCA  
GTGCACTGAACACCAGCTGCTCTCTTCTCTGGCTCCCATGGCAGCCA  
TGGTCTGTTGCAGAGAGAAGAGGATTGCCTGTTCCCTCTTTAAGGGAACC  
TCCGTTTTGCTTTCTGGAACCACTCTCTTAATGC

## &gt;Sequence 794

ACGAACCTAAATTTATGATGAATATCTTTGATAATGAGAAATCCTGAGAG



Table 2

ATTTTACTTTCAATTTTATTTTAATTTGAAAGAGCATATGACATCTGGAA  
TATTTTAAACATATAGCCATACTGTTTATTTAAATTTGTAATAATAGAAA  
TAGAGTAATTCTACTGTTGGATTTTAATTTTAAATCATATTAAAGTTTAA  
CTGGATTTTATTTTAGGACTAAAATATTTAGGACTAAATAAAAATTTTATT  
AATTAATTTAGGACTTTTGGGAAAAGATATTTTCAAGAGTTCAGTGCATAT  
CAAAAAAGCGAACAACAGAGGCTTCATCTTTTGAAGAACTTCATTGGCTAA  
AAGTGT

>Sequence 795

ACCCTAGGTGATCTTTGGCTTCCTCAAGTTTTTGCACCACTCAGAATCAT  
TTCATATACCACCTTTGGCAAACATGCCAGACCTGCAGTAGACTGAAGGA  
AGCTCTCCCAAGCTCTAAATTGATTAATTTATTAGTTCCTAGAAGAAAGA  
GATTACATGTTTATCTTTTGTACAGAAGAACTTTGAATAGCAGTTGA  
AAATTTGGCAGGGTGGACCACCTAAGTACAGTGTATTATTGTGTCTGT  
TTTGAAGGAATAAAATGGAATTATTTATAAAGTTTTCATTTGTATTAGAG  
AG

>Sequence 796

GGTACACTATCTGACCTAATCCTCAACACAACTAAGGCAGGAGACACAG  
GGCTGCAAGGACATTTGCTGCCATCCAATTTGTGCCAGCCTGTTTATCA  
ATCTGAACCTATATTATTTTAAAGACCTCACGGCATCACTGAAAGATGAG  
TATTATTAGTTGGAATTTTAGGGATGAGAAAAGTACCCCTCAGGGAGAAT  
AACTGACTTGCCCCGGCTCCAACAGTAAGTGGCCCTGCTGGGATTTGAAC  
CCAGGTGTGTCTGACCCGAAGCCTGATCTGACCTCTGACAGTCGTGATA  
AAAATAAT

>Sequence 797

CCCTTGGCCGCCCCGGGCAGGTACCGAAAAATGATTTTGTATATATATT  
ACCACAATAAAAAAGTTTTAAATTTATTATAGGTGACACTGTTTGCTCAC  
TGTAGGTCAGGTATTTTTTGGTTTTTTTCTCTTTATTTTATTTTGGAC  
CAATGGATTTCACGTCACCAGGTGATTTTTTAAACAGCTTTATTGAGATAT  
ATATCACGTGCCATAAAATTCACCCATTTAAAGCACACAGTTAAATGTTT  
TTTAGTATAGAGTTCTGCACCTCTTATGACAATAAATGTTAGAATATTTT  
CATCACTCAAAAAGAAACCAGTATCCATTAGCAAT

>Sequence 798

ACAATTTTATGTTTACAGCTGTAACCCCTGAGTTATCAAGAGATGGAAC  
ATTAGATATGATTTATTCCTATTTAAGATAATAGGACATTGCTTGATTAC  
ATTTTCAGAAGATATTTATCCAAAGAAATTTTTTTTTTAAATCTAAAGGA  
AAGGTTTTGATTCTTATGAGAAAAAGATGAGATTCTTTAACTGGAAAAAT  
TGATTTATGTCCTACAGTCCATTGTGTAGTGTGTTGGATCAATCAGGTA  
TCGCTAGGGTGTCTGTAGAAGTATCTATATATTGCTTTTTAAGTCTTAT  
A

>Sequence 799

ACCATGTAGCTCTACTTTTCCATATACAGAGTTGTTTCCTAGCTTTCTGC  
TAATCTAACTGGATTCCCTCTTCCCCATTTCCCTCATTACTAGATTATAAT  
GCACATCACATAATAAAAGCTTAAAAATGGGCTTTCACAGTACTGTTTT  
CTTTTAAATAATTGTGAGAGAGCTTTTGCATCATTTATTATCTAATCAT  
GATTCAGTGACTAGGCTGTAGCACCCCAAGAACCTTGCCTTAAAAACAGTT  
TATTTTACCCAATAATACTACTTTGCCTTCTTACTTAAAAATGTCCCGTG  
CTTAACCCCTTTTGCTCTTTATTTTGAATTAAGCACTTGACCC

>Sequence 800

GGTACTCTCTCTTTTAAACAAGGCTCCCTCAAGATATTAATGTGACAAAC  
TTACATAGCCAGCTGTAAGATATCTTTCAAAATGCGCAAGTAACCTAACAG  
ATTTGTGCATGTCAGCCAGTAATTTCAACATACATTATAAATATGGCCAA  
TTTTCCCAAATTTCTAAATGAATGGAGATAAAATGCTATATAATAAATATG  
TTAGAGCACCTTTCTTGAGAACTTCTAAAAGGAAAAAATAAAAGACATA  
ATTATACTCACACCACAGTAAACCTCTGGTCACCTGTTTTGGGTTGTG  
GAATGCCCCCAGCAGCCGAGAGACCTATATTAATATCAACAGAGAAATAT  
CACACACAGAATTAACACACATACAGTAAACAAGAGCGAGGAAGTCCTGA

Table 2

TGGATGGTAATGCTGCAACTTGGCACAGATATATTTCAGTAGCTTCCCAGG  
AATACAAATCTCATGTATTAACCTCAATGTGGCAAGCTATCTCAGATTTGA  
AGCCTAAATACTTAAATTTTACTTTAGAATGAGTACCCTGCCGGGGCCC  
GTTCGAAAGGCGAATTTCCACAAACTGGCGGCCGGTACTAGGGGATCCAA  
GCTCGGACCAAACCTGGGGGAATAAGGGCATAACTGGTTCCTGGGGAAAA  
TGGGTTCCGTTACAATTCACAACACATTCCAACCGGAGCCTAAAGGTAAA  
CCCGGGGTGCCAAAG

>Sequence 801

GGTACTGATTATTCTCCTGCTTAGGGAGAAGCGGAAGAAGGCCCTTGGA  
CTGTGAGTTTTGCATTCCAACCTTGCTAATTCAACATAGATCCTAATTCCT  
TAAATGCTTGTAATTAGAAATTCCTGTGAACGTATTGGTTTTGTCAAG  
CAATCTGTTTGGGGAACTTGAGCAACTGGGGCACTGCTGGCTAGGGTGAA  
GTTTATTTAATTTGTTTTATGACATTCTTCATCTTGAAATGGGGTTTT  
CAAATATTGCTTTCCAGGCATCATTACTTATTGCTGGTTTTATTTC  
AGATTGGGACTAGCTCAAGGTGCCAGGGAAGCGGTTTGTGGTGCTTTATA  
TTAAAGTCGTAATATCCAAAAAATTGTCTGATTGTATGGGGTATCTTGG  
ATGTGGTACCTGGCCGGGCGGTCCGTTCAAAAGGG

>Sequence 802

CCCTTTGAGCGGCGCCCGGGCAGGTACGATAGGCATGCAATTAAAGAAGA  
CCTGCCTCAAACATTTTCTGTGTGACCTGAGGCAAGTCCTTTTATAGCTA  
TAAACTAGGGACAATATTTGCTGTCAATTTTTCTACAAATGTCACAAAGA  
ACAAA

>Sequence 803

ACGCGGGGGGTTTACGCTGTCTCTTACTTTTAACCAAGTGAAATTGACCTGC  
CCGTGAAGAGGCGGGCATGACACAGCAAGACGAGAAGACCCTATGGAGCT  
TTAATTTATTAA

>Sequence 804

GGTACCTTGACAGTGCCTTTTAAATTCATTTTGTGGACAGTTGGCAGG  
CTCTTTCACTTGAGAGGCTATATCTTAACGATTTAGAATGGAGAGTTTGG  
CTCAAGCTCCCTGTGTGTGGTCTGTGCTTTCTATACTTTTATTCTTGGTA  
TTCCAGAGTCTGGAGGCTTCTCTTTTAAAAAATTGCTAGGCTCCTGCCAA  
ATGTTATAATTTGGGGATGTGAGTTCATAAGAAATCAACTGACAAGAGG  
CAGATTAATAGGAGAAATGACATCGAAATTTATTAGCATGCAGGGGGA  
AAATTGATTACCAAATATCCCAGTAGGGTAGAGATGCTTATATACCCAC  
CTCTTAAGAGAGAGGGAAAGTGGATGATTTTAGGGGAATAGTAAATACTTT  
NTATGGGAACTCACTGGGCTTGAAGAATATAACAAAAGCCTGGGACAAAG  
TCTGTTGGGCCACAGAACAGACAGTGGTTTTATGACAAAAGTCTTGTGAG  
ATGTTATGACAGACTTTCAGCTTTCTTCTTTGTATATGATTCAAGTTAATG  
AAAAGTAGGGAAGGGACTAGAGGTAAATGGTTTTTTCTTTGATGGGGCC  
CAACCTTAAACCGGATAAGAGGACCTTAGAGAACAAAACCTTATTCTGGG  
CTTTGGGAGAAACAGAGGATCCAAGACAAAAGACGAAAGTTGGATTGAGA  
GAGACCCTGGGCTGCTCAATTCACATGTCAAAGGGCATATTTTGGGTT  
TGGGATTTTAAT

>Sequence 805

CCGGGCAGGTACTATTACTAGGTTCAATGTTTCCAGAGGGGTGAAACGGG  
GCTTTGGAGAGGTTAAATAACTTGCCAGGGTCACACAGCTATTAAGTGG  
TAAAGCTGGGATTTACATGAGCCCAGACAAAGAACCCAAGAAGCTAAGCT  
ATTCTCTTGTAAATACCTCCAACATAGGAGGCAAGAAGTGAGGTATTATAC  
AGGTTGAGGAGATAAAGGGGAGAGAGGCCTGCAGTGCTAACAGGAGGAGC  
TGGGATTCATCCTGGCTTGTCTGATAGGTCAGTTAGTCTTAGAGATACC  
CATGAGGTACCTACTCAAAATGGGGCTCAGAGTAGCCTTGTCCATTCT  
TGTCCAGTGGGCGCAGCTACAGTCTTCTGGCCTGGAGTGACTGGAGGCT  
GTCCCCACGTCCCACTTCAGTGAGGCATTTCATGTGCACCCAACACACTTT  
CTAGCTTTATTTGCTGGAGGGGAAGATTCTCCAGAACCTTGTTAAGATG  
CACAGTGTGGTCTCGGACTGGCAGTGTGGCCTCGGCAGTCCCTGGGAGC  
TTGTTAGGAATGCAGAACTCAAGCTCCTCCCTACTGAATCTAAAAG

Table 2

## &gt;Sequence 806

GGTACACATATATACACACATATATAGATATATACACCCACATATATATT  
TGCTGACATTTTAAATGTGAAGTTTTAGTCTGGGATATAAAATGGAATGTA  
TGACATCCTCAAATGTCTGAATACTGTTCACTCCTATGTTTTACATTTAA  
TTTTCCAAAGCAAAACATTTTCAGTTGAGGATTTTATTAGAAAATAAATAA  
TCATTTAGCCATATCTAGAAACCAGAAATAACAATGCCATAAAGCCTATA  
GGAAAATGCAGGTCAGATTCATAAATATTCATGTGTTTACTTTTCAGTACA  
GGGAGGAATTTGAAGTAGATAGAAACCGACCTGGATTACTCCGGTCTGAA  
CTCAGATCACGTAGGACTTTAATCGTTGAACAAACGAACCTTTAATAGCG  
GCTGCACCATCGGGATGTCCTGATCCAACATCGAGGTCGTAAACCTATT  
GTTGATATGGACTCTAAATAGGATTGCGCTGTTATCCCTAGAGTAACTTG  
TTCCGTTGGTCAAGTTATTGGATCCCGCTACCTGCCCGGGCGGCCGGTT  
AAAGGG

## &gt;Sequence 807

AATTCCCATGATGTCAGACCACTGGAGTTTCCAGGGGCAACACCCCATAA  
CCGTCGCCGCTGCAGAAGAGCATCAGACGTTTCAGTAAGAATGCAAAGGGTA  
TCTCAGTGGGAACCGCGGACCAGGAGAGCTCCCAAACCAACACATGGCTA  
GGGCTCTCTAGGCCCTTTTCAGGCTAGATCTTGACGAGAGAAGAGTAAAGA  
TCTTTCTGAGGTTGGTGCAACTGAAGAAACGAAAGTTTCGGCCTCTGCTG  
TCAGATCTATGAAAGGAAAGAACTGTGAACCTGTCCCTTTTGTCTTCTT  
TGACTTAAACAAAAGAAAATCACTGGAACAAAGTCTTAAAGTAATAACA  
GAAATGTCAGAAAAGTTGAACATCTTATGGGCACATGCGGTGAGTTACGC  
TAACTTATAGCATCCACTGAGATTAGCCGCATAGGATTCTTCCCATGTTA  
GAGCTAAAAGGACCTACTGTCCGCCAGCTGCATTGCAGTACC

## &gt;Sequence 808

GGTACTATCCCCTACCTATAAGGCATTTATAATGTGCTGGGCATTGTGAC  
ACTTTTTCATATATTATCTCATGAAATCCTCACNAATAATTCTGAAGGGTA  
GCTGGTATTTTATCTCCACTTTACAATTCTGAGGCTTACAGAAGTTAAT  
TCAGTGGCCCAGGGTCACACAGTTTACAAGTGCCACATTGGTGAATATAA  
AGTAGCAACTTCTAAGTTTCACTCTCCCACTTCCCTAGTTATTTTCTAA  
GGCATGAATGTCTGGGAAATAGCATGCATCAGATNTTCCACCTCTTTAAA  
ACTCTTCAGTTTCATATAATNTAGGGTGTGACTATTCATAGATACCTTTGA  
GCTAACTTCTGCGGAGCCAATGTAACCGCAATGCACACTGCAAAACAATG  
CACGCTTTCTCTGTAAATTAATAATGCCAACCGAGCTTGGGAAAAGCCCA  
TCTTTTGATATGAACCAATAGGGCAGTTTAGTTTATAGAAATAAAGAAAGT  
CCACTGTTCCTGCTTTTCTTTTTTACACACAATAGGTAACCTCTGCTCTAT  
CTTCTACAAAGAGTCCCAGTCAGTTTTTCTATGCCTACCCTCTTAAAGTT  
TCATTACACAAGCCAAAACAAATTCCTCCAAAAAAGGATAATGAATCCTA  
TTAATGAAAAGTGGTATTTTCTCTAATCATTNTTAATAAAAGGAATGGGG  
GATCAAATGGCATTAAAGCTCATTTTGAACAGAAATTAATAAATAAATT  
GCAAATATTGTAAAAAAATTTGACAGATCACAGCCCCCTGTTGTAAGGCT  
ATTCCCATTAAGAATG

## &gt;Sequence 809

ACTTTTTCTTTTCTTTTTTTTTTTTTTTTGGAGAATATTGCATACCTAT  
TAGAAAAGTCTTTTAAACAATTAATAATGAAAATGACTGACAACTTACAC  
TATTTGATTTAAATAAATAAATAAATGGTCACATGATAACAATCTCCTGA  
TTGATATGCTTTATTTAACCAGGTTCTCAAACCATTTGGATGTGAAAACCA  
AATTTTACAATGCAGAGGTAAGTGTGAGTGTTTAATGGGATTTTCATATT  
AAACATTAAGATCGTATTTGACTAAAAATCTCTTATATACATTTCTAATA  
CTGAAGCAAATCGCCAACGTGACTGTAAATTTTGAATAATCACAAT  
TTCAGTTAAAATGAATAATTTTATTATAGGTCTCATAATCTTTTTCAGC  
TTACATGGAATCAATGTGCTTGTATTTTATTCTCGTTAATTTTATAAGG  
CCTTCATCTCTTTTCGGTAAATGATTGCCCTCTCATTCCATTTAATGGTG  
GTTGTTACACTAGCAATCTGTGGAATTTTACATGTGGTTTCGGGATTTTAC  
AAAAATTGGAATTAGTAGATCTAACGCTTGCAAAAAAATTAATATCACA  
TGAAAAAATACTGACAGNTGAACTTTACACATTAATTTTTTCCAGGTAG

Table 2

TAGGTTGGCAGCCAGAATAGGTGCTGAGTTTGGTGAATGGTTTTAAAGC  
TCTTGGGAAAACAAATTTGGCAAAGGGGAAGTACTCATTATTGAAGTTCT  
TTTTTTTTTACCTTAAAAAAGGATAAATGAACTTGCCAAATAAAAAAA  
A

>Sequence 810

CCCTTAGCGGCCCGCCCGGGCAGGTACTCCATTTCTTTTTATTTCATATTAT  
TTCACCAAATAATATTCCACTGTGTAGATCTATCACATTTTCGTTTAGCAG  
TTTATCAGCTGGTGGACAATTTGGCTGTTTCCAATTTTTGGCTGTTATGA  
ATAATGCTGCTATGAGTCATAGAAACCATTCCTCTTACTCAAGAAACAGG  
TTCTCCAGAACTAAGCTAAACTTGTGTTGAAATGTAAATTCTCAGGTATT  
CTCAGTATAGACCTATAGATTCACTTAGCTGGTGGGGTCCACCCAACCTC  
TTTTAACAAGTCCCTCCAGTGGATTCTGATGCAATGCTAACATTTGTGAAC  
ACTGTCAAAATCAAAATGGAGTCACTTGTGTTTAAAAATCCTGACAAATA  
AAGCCAGGGACAGCTATGAAGAGAGGGTTCTCATGCATCAATGCCTGATT  
AACANAACTATCCCAAATGACTCTGCANAAACCACAATCCTGCACAAAG  
GTCATCACAACCTTACACAAAAAATATCTTCACAAGGACATCTGTCCAGC  
AATTGCCTGTCCAATCTCAGACTGGTCACACTTGTTACTGATCCTTGTN

>Sequence 811

GGTACAAATCATTAAAACTATGTTGTAATACTGTTTGTCTTTGTATCCATT  
CTGGCGTGTCTCCATACACTTCACTAATAATTTGATATACCTGTTTTATAC  
CAATATAATGCTGCTGCTGTACGTAGAAGCTGTAGTCACCATATCCTCTA  
TTTGTTCATTTATTTTTTCTCTTCTGGCACACTAGGATCTATAACAATG  
ACAATATCTTCAAAGCCATTATTATTC

>Sequence 812

GGTACCTAAGAGTTATTAATACTATTTTCAGTAAAAAATAATTTAATAA  
ACCCTGTGTGATCCCATTTGTAACAGAAAGGCTGATGTTTTCTGTTGTGAA  
ATACAAATGCAAGGAAAAAATCATTCTTTGTTTCAAAGGATGCATTTCT  
TCCATAAAGAATAATTTGTATTTATTTTTAAGGGTTTATTTTAACTTATA  
CATCAGCCTATATAAAATACATTTCAAAATGATCTGTGCTCTTTAAATTA  
CCAAAAGCAAATGTTAATTTTTTTTTCCCTCTAACAGATAACAAGTTTA  
CTCCTATGCTGATTTTTCTGGTGCCACTGAAGTTATTTTGGAAAGCCGAAT  
TAAGCAGAGGAGATGGGGATGTCGATTGGGAACACCCCCGAGCTGTTTAC  
ACAAAGCCTTAAATGGCCACAAAAAATAAGTATGGGGATAATTAATAAA  
TCCTACTGGCCTTTTCTATAACCCCGGAACTTATTTAAAAAATCCGTGA  
CATATTACAAGAGATTTTCCTGG

>Sequence 813

CCCTTGAGCGGCCCGCCCGGGCAGGTACATGTGCATAAGAGGGAATGCTTC  
CCTACATTACTCCAGAATACAAAGCTTCTTTCTGCCTTTCTCATCCACAT  
AATGGAAGACACTTCTTGGGTGAAATACTCCACAGTTATTTTCAGTTCTCA  
CTGGTGAGTCTGAATATAAGCTCTATGAGAGCAGGGACCTTGTCAGTCTT  
ATTACAAATATCCCCAGCCTCTAGAACAAGGCTGGCACATAGTAGATGCA  
CAAAAGGTGTTTGTGAATGAATGGATGACTGAGTCTGTGTGGGTAAATG  
ATAGGGCTAAGGATGGGACTCTAAACTCAGGTTTCTCTGTGGGTTCAC  
AGTTTACTGGTCTTAAGAGGAGAGTTTCCTAAACTTGCCTTATGATAAAA  
ACCACCTTCAGCATTTTGGTAAAAATTACCCATTCTGTAGATTCTGAGTC  
AGTGAGCTGAAGTGGAGCTGATGAATCTGTTTTTTGTGATACTGCTGCTG  
CTGCGGTTTTTAACACATGCTTCAGGTGGTTCTAAGCTTAGGAAACCTTG  
CCCAAGGATACCATCCTGTCTCTTGGGAAACTGTCTCTAT

>Sequence 814

CCCTTAGCGTGGTTCGCAGCCGACGTACTTTTTTTTTTTTTTTTTTTT  
TATAAAACATTATTCATATTTTATCTTATTTTAATTCACATTTATATTAA  
CTAATTTTTATCAAAAACCAACAACCAAAACAAAAAATATTACAACAAA  
CAGAGAAACGAATCAAACCAAAAACCAAAAATACTTTCTGGAATTCAAAT  
GATACATTATATATACCTATCAAGACAACAACTACTAACTACCTAAACT  
ACAAATTATCATAAAAAATGACTCCTGTCTATATCAATAAAAAAAGTCTA  
TTAAATTTGAGTATTATAACACAATACAATGTCTACAGCTTTT

Table 2

## &gt;Sequence 815

ACAAGTATTATGTATCCATAAAAAATTA AAAAATCTTTAAAAATGCATATG  
GGGGTCAGTAGGTA AAAAGAAAAGAGAACCAAGAGAGCTGCAGCGGGGAGC  
ACAGCTTGCTTTAAACATGAGATCCAGCTCAGTGATCATGCGGGGGAAAA  
GGCCCGGCATTGCTGGAACCTCTAATATTTAAAAAGATGATGGAACTTG  
AAATTTTATATTTAATCTTCTCATTTTAAAGTGTGGCAATGTATTGAAG  
ACTTTGAAGCCTCTCTGCTGGTCAAACAAGATGTATCTGTAGGCTGGATT  
TAGTCCACAGC

## &gt;Sequence 816

GGTACAACCTGTAATAGCTATTGGTCTTCAAGTGGGTTTAGATTGGTGAC  
ATCAGTTTGATATTCTCTTAAAGGAAATAAATATTCAAGAACTGATTATG  
TTCTAACATGATTATATTCATGGTGTTACATAGGCCTCAATTTTTTCA  
GAAAGATTTTGGAAACAGGACTGTGAAGTGAGGCTTTTAAAAAATTATT  
TTATAAGCAGAGAAACACAGCCTGATAACTTAGTCAAGGATATACTGTCTG  
TCTCACTACTTTGGACTTATATGGCTTCAGATTAAGTCATCCAAGAAACA  
TACATA

## &gt;Sequence 817

GGTACATGTAATAGACACTATGCTACAGCAAAAAGCTTTTCTTATTGTCTT  
TAAAATTTTCCCTGGGTGCATAAAACTATGTNGGTAACCTCTTCCCAATTT  
TTAACTTTTACATTACAAGTCATTTTCAGAGTAAAAAGTCATTTAACAAA  
GGCAGATAGAAAGGCCTCAAATCCCTGAGGACCAAAAATCCCAACACATT  
TTCAAAAGGGAGAAAATTTCTTTAAACTTCATGGGAAAAGTATTTTAAAC  
ATAATAGAGAGGCTTTATGCAGT

## &gt;Sequence 818

GGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTATTTTTTTTTTTTTTTTTT  
TTTAACACTTTCAATTTTGGAACATTTGTTTTTTTTTTGAGGGGAACAAAA  
TTAAATTTTCAATTTCTAATTTTTTTTTTTTTTTGGACACATGTATTCCTT  
TAGTGGAACAAAAGGAAAAAATAACTTTTTTCTCCAAATAGTCGGCCTGG  
AAAAACCAAAATACAATGCAGGGATGGAATCAAATTAACAAATTTTTTTT  
CCTACGGAACAAGAGCCTTTTTTGGGTATTTTACCAACACCTAGGAAA  
AATTCCTTTTTATACAAAAGTCATAGGGATTTTTTCTTAAAAA  
ACAAGGTTCTTGGGCTAAAAATAAATAGGTATTACTAACATAATTCGGGAA  
CACGCCAATGCCAGATAATAAACGGGAACCCGGCCCCCCCCAAGCGGA  
ATAAAAACAACCTCACGCCCCGGGGAAGGGGATATCGGCTTTGACCCCT  
TCTCCCCTACACGAGGAAATAATTTTCCGGCGAAAAACGGGTAGGGGTA  
AAAATTTCAACAAAAATACAAGGCGCGGAACATAAAGTAAACCCGGTG  
GGGCTAAGAGGGGGGCAAAACCCCATGGCAAAGGGCCCCCAAGGGCCGAAA  
ATCTCAAGGGCCACGGTTGTGGCTATTCCAAAAACACCCCCCAACAGG  
AATAAAAATTTCCACTTAAGGAGG

## &gt;Sequence 819

GGTACAACCTGTAATAGCTATTGGTCTTCAAGTGGGTTTAGATTGGTGAC  
ATCAGTTTGATATTCTCTTAAAGGAAATAAATATTCAAGAACTGATTATG  
TTCTAACATGATTATATTCATGGTGTTACATAGGCCTCAATTTTTTCA  
GAAAGATTTTGGAAACAGGACTGTGAAGTGAGGCTTTTAAAAAATTATT  
TTATAAGCAGAGAAACACAGCCTGATAACTTAGTCAAGGATATACTGTCTG  
TCTCACTACTTTGGACTTATATGGCTTCAGATTAAGTCATCCAAGAAACA  
TACATACATTCTAAATGGTATATATTGGGAATATATGCCCTTTAAAAAGA  
ATCAGGTCAGAAATGCAATAACAATTAGACTAGACTGTTGCCCGTGTAG  
GAGAATGTGTGGTCATCCTAG

## &gt;Sequence 820

GGTACTAGAATTAGTTCCAACCTACTGCTGGTGATAAACTCACCATCTACC  
TTCACITGTTTCTCTTAATTTCTCCAAGAAAGTAATCAGGTGAATAAAGAA  
TCATCATCAGATAATATTCTCCAAGATTCTTTAAGAAATTAATTTTTATC  
TACTCTTAAATGATTGCACAATTATAGGATAGAAATTAATCTTGTGCT  
CTAATTCAAATTGCTCTTAATGATCCTAGAGAGAAATGAATTACTAGAGA  
TAAAGATAAAATTTGCTGTGGTTTGGCATCTTTGTTTCTTCTTAAAA

Table 2

CTTAACAG

&gt;Sequence 821

GGTACTGGAAACCAGACCTTACTTAAGCCCACCAAAGGCAAGGTTTGGGC  
CTGCCACAGCGGATTTCAAAAAGACAAAGCAATGCAAGCCACGTGTTCAA  
AATGCCCTAAGTGGCTATTCAGGTAATATATAAAAGTAAGACCAGGCTAA  
TTAGTATACAAATGGGGTAAACCAGAGAGCAGAAAGCCCTTCTTTAAATG  
AGCCTACCACTGCTTGGCCTCAGTGTGAATTTAGACCCCATCTTCTGATA  
TTTCAGGAGAAAAGTAAAAATCTAGATTTTATCTAAAATCTTTTAATTT  
TTAAACAGTCACCTGATTTT

&gt;Sequence 822

CCCTTGAGCGGCCGCCCGGGCAGGTACAGAGCATCTTAAGGTTGGAAGGA  
CTCTTAGAGACCATAGTCCAGCCTCCCACTTGATACTGAAACACGTTTGT  
GAATTCATGGCCGATGTCTAAGTCCCTCACCACCTTTCCGATATGGACA  
GTTCTCATGCCCAGAAGCAAAACCTTCTTTATTGTGCCTGTCCTCCCTTG  
ACTGTCAATGCAATATAATCAGCATCTTTCCCACTAAGTGAAGGGCCAGAC  
TCGAGCACAGGAGCACAGCACCCCTTAACTCACGAGGGGCTGCATTAC  
ACCATCAGCAGGGAGATTACACTTGTGTCAATTTG

&gt;Sequence 823

CCCTTAGCGGCCGCCCGGGCAGGTACCAAGACTTTAGAGGGCAAAGAACA  
GAGGATTCCTTGAGAAAGGGGACTTGAAGGTGAAGAGATAAAGGCTGGTGC  
TTCCAGGAGCGTGGGTCTCCTACGTTTGTGTTCTGGGAAGAATCTTGGA  
CTCAGGCGTGGGCAGCTGGATGCCTGGGTTCCTTAGGCTTCCTCCAGGCA  
ATGTAGTTGCCTCTTTCTCTCCCCGCGTACATAGTAAGTGTATGATAGAT  
GTTTGATTTGTAAATTACAAATATAAATTATCACCCCATTTCCATTTAT  
TTTCTTGATATATCAAAATGTGTTGA

&gt;Sequence 824

GGTACCCCCATTATAGTAGGGAGACTGAATCTTCAAAGTTACAGGGTGAA  
TCAATGATAATGATCTTTGCAGCTTTCTGGAGTTAAAAAGCATCAAAATT  
GGGAGATATTAGATGATGACATCTAAGTATTAAAAATAAGGAGATATTAAA  
TGATGACTCCTAGAAATGAACCTGAATAAGGACTACCGCAATGTGTGTGG  
TGTGGGAAAGGACAGTTCTTTTAATGGCTGGCTGACCCAGCCTCAATTTT  
CTTGACGTTTCGCCGACACGAGGTGACCATCTGCAATTACGAAGCATCTG  
CCAACCCAGCAGACCATAG

&gt;Sequence 825

GGTACCTCTCATGGCTTTTGGTTCCAGCAGTGAGGGCATTGGTGAGATC  
AGTGGTAAACTGTGCAAGCTTTCTTTTTATCATTAGGAAATGTGAAACGT  
TGGACAAATTTTGAGTTTAAACAAGGACAAAAAGTTGAAAGAAAAGGCAC  
AGTTAACAAAAAAGGGTGGCTAGATTTATCTTGGGTGATGGAGGAAATGA  
GAGAGGAATGCTCTTGAAAGGTGGTCTGTGGATCTGTCTGAATAGAAAGA  
GCACAGTAAGTATGCATTGCCGAGAAAACGTCCTTGAAGCTGCTTGTCT  
CATGTGTATGATGTGC

&gt;Sequence 826

GGTACTCAACAAGCAGCTGACTTATGTTTTATTGGACATTGTGATACAGG  
AACTGTTTCCAGAGCTCAATAAGGTACGCGGGAAAGTCAACTCAGTTACC  
TCTGTTTGGTGTGTGTATCACTTGCAGATGCTGTCTACCACCTTTTCAGT  
GACATCCTAGAAGCTTCTCTATTACCACAGTAACTGGCTAACTAGATATG  
ATCTTTCCTAATTTTCATGAGCATCTTTTTCTGATATAAACCAGGGAG  
GGAAAAATAACAAAGTTGCTTCACTCTGAAGGAGTATTCTCCTCTAGTACC  
TGCCCCGCGGAC

&gt;Sequence 827

GGTACATATATGAAAAGCCAACATTCTAAAGTAGAGGTTCACTTAATTTT  
TTTTTTTTTCAAGAGAGGCTTCTTGGTAGTTTCATCACACAGTGGTTTTA  
TTAGGGGATGTAAGGATTACAGAAACATCGTATTTTTTAACATATAGTAT  
TTTTTGAATATGATTTGAATTAATATAGAAAAGTGCATTTTTTCCAGTTT  
TTTTAGGGAAAAGGAGATACTTCACCAGGAGGATAAAAAGGAACAAGAGG  
GGAAGGGGAAAATAAAAATTCCAGAAAGATGAAAAATTGTTGATGTAAGAT

Table 2

GGAGGCACATTNT

&gt;Sequence 828

GGTACAAACAAGCTTTGTTAAACTAACCCTTGCCATCCTGGCTACTTTAC  
CCAATTAACCACCCTAGCCCAGGACGTTTGCTTTATCACATGTTACAGT  
TTGCTATTCTTTGTTCAATCTTGTAACCTGACTGCAACTGCTTCTGTGGGT  
CTCTGTTTCTTTATGAAGTTTCCCAGGCCATACAAAACCTGTGTAGCCT  
ATCTTCTGTCAAGTTTAATTGTGGAACCTCAGCCAGGCCCTTAAGAGGATGG  
AGGAGAGTTTTTCCCACAGCAGTTCTGAATGGGATGAAGTGAAAAATAAA  
ATCTCCCCATTGCCACTACACCACCTCCTGATGAGTCTTGACAGCAGAAAT  
ACCGTTTAACTGTTTCTGCTTTTATTTTTTCTGATTATCATCCAGTTTT  
ATATATTCATATCTGGGTGCTTTGATAATTATATATACATACTTTTTTGA  
TATTATTTACTTATTCTTTACATTGGAAAGGAACCTTGCTTTGTAATCTAC  
ATTCCCTTTCCTCCTACATTTTTTTTAGTTTTTTTCATTTGGTTTTCTAAT  
TGAAACTAAAGGTAGACTGACTGTTAATTGAAAAGAGTTTCAGCTTTAGG  
ACTTTAATTTTTTAAGCTTCTTTCAATGGTCCGGACCTAATTCGAATTG  
CAGTATTGTCCTGCCCGGGCCGGCGGTTTAAAGGGCAAATTCAACACACT  
GGCGGGCGGTATTAGTGGATCCT

&gt;Sequence 829

ACTCACAAGCAATAACAGATTTCATAGATCAGTTGACATTGGCTGGTCTCC  
AGGACAGGAATGTGGCCAAAAGGTGCTTTGTATAGACGCGGGGCACTGAA  
TCTGTGTCTCCCCTGTTACCTACTTTTGCCAGTGAAATTTAAGTTTTAAA  
ATACTTTCAGAAATGTAATTTTACTACTGCAAGTTTTTGGTCTTTAAAATG  
TCAAGTAGCATCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCA  
GTTTTTTTTTTTTTTTTAATTTCCATATGGGCTAAAGAATCCAAATATTT  
TAAAAATCTGGCTCTCTTTCTCTCTCATAAAGTGAAATTAATCCTCTTT  
TTTGTTTTATGTAAGTGATATATTTCTTAGTTTTCTTGAAATCATTGTA  
ATGCTAACTTTGTGTGTTTCAAAATATCTTGGTGATTGCTTCATTATCTCT  
CAACAAAAAAAACCTTTAATTTTGCCATTGAAACTGTAGAAGTATGCCAT  
GCTTTTATTAGAAGCAGTGCTCTGTGTTAACAACAAGAATGGTGTAATTA  
GAATTGGGATGGGGATATTTACTGTATGACAACACATTTACAGGTCTGTA  
ATGCAAGGATGCAATTTAAAAATGTGAAGTAATGATGGGTTTTGAAATAA  
GCTTTAAATATATGGACTTGAGGGCTCCTGGGGAACATTTTTTTACCTAG  
ATAAAAGGGTT

&gt;Sequence 830

ACAAGCCATTGAATAAGCCTCTTCCTTTTTTTTGCTCAAACATTCCACAT  
CCTTGTGGATTCCCCTGCATTGTTTGTGTTTATATAACATTTGATATTTGT  
TGTAAGCTTGATATGAACATAAATTTCTTTAGAGGTAGTCACTGTTCTCT  
CCAGTATGACCCAGGTTTCTTGACTCTGAGTAATGCACCTTCTATAACTA  
TCTAAATTTCTATTGAAGCTTTTTGGATTATGAGTATGCTGACTTTTCAC  
GATTGGCTGGTGATGTTTAGACTTAAATGTCATATCCTTCATGTCTCAA  
AGCCAAAATAGTAACATCTCATCTCAGAACAGAGCTGTGACCACATGCCA  
ATATATGTGTCAAAAGTCTACATATGTTACATTCCTTGGAAGTCTCCTT  
AAATGTTTCACAAAATGTCAACAAGCTTGTTTTGTTATTGATATTTCCGA  
GAATGGGCACATTTAAGACAGTAAACGGGAAAGGTGGTGAAGATGCTATA  
AGAAGATGCTGTATCTTGAGAATTGAAAAATGAGAATCTGACATGGTTTG  
GAAAAATCATGAAAGGTTTATATAAAGGATGCATGTGTAGGAGCCATTTAA  
ATTATAACAATATGTGCCCTTCAGCGTTTAAATCTTATGAAGGGGTTA  
AGAGATAAGTCTTTGGAAGTGACAAAAGGATTGAAATTTAGGTTCTGTG  
GATAATTAG

&gt;Sequence 831

CCCTTGAGCGGCCGCCGGGCAGGTACGCGGGCTGGAAAACCTGAACGTGA  
AGTCACCACTAGGCAAGCTGCCTGTAATTGAGCTTGCTTGTATATGACCA  
ATCAACCTTTGCTTGTGAAGGTTAGTTATCTAGTTTCTTTCTTTCTT  
TTTTGGAATTTGGTCTTTAAGGTCTTGATAATCTTTCTAGTCTAGAGCA  
TGTGAACAGAACAGAAGGAAAATCAGGACTCAGTTTACTTAATTTAAGCA  
AGCATTGGTTGCTGCAGTTCAGGGGAGGTAAAGTTGCTGGGCTCCACTC

**Table 2**

TCTTATTAGCATGGATGCTTAAGAACTTCAGGGTTTGGAGGTCAGCTGAA  
CAGCTGTTTTTGCACCTCTCCCTTGTTTTAGTAGCTGAGTTCTATAAAAAA  
ATACCACTCGGGTAAATGCTAATATACTTAAGCCATTTTTACTTGATAA  
CATGCATAAAAAGATATTAGGGCTTTCATGGCTTCTGGCCCTTTTGGCTA  
AAATCAAAGGTAAAAAGAATGCCATGGTTCAAAAAAAAAAAAAAAAAAAAA  
GTACTTTGGCGGGAACACCCTAGGGCAATTCCCACAAATTGCCGCCGTT  
TTTTATGGATCCGACTTGGGTACAACTTGGCGTAATAAGGGCAAACTG  
GTCCCGGGGAAAAATGTTTTCGCTTCAAATCCCCACAATATCGAACCGG  
AACTTAAAGGTAAAACCTGGGGCCCCAAG

>Sequence 832

GGTACCCTAGGCAGGGACAGTCAAGAAAACCTTCATGGATCTGTAGTGTA  
AGCTAGGGAGAAAAGAGGAAGAGATCCTGTTTGAATTTCTGTAAGTAGCGT  
ATCTCCAGATAATGCATGAACAGCCAGTAAAGATGAACGCAGATTATTGA  
TGGAAAGAACACACATGGAGAAGAGAAAAAGCAAGTCCACAGAGCTTTT  
AACATACACTCCCTACCCCTACCCNCAGCTTAGAAGGGCAGGAACCTGC  
TGTCCAAAACAGGAAATATAGGAAATACCAGCTGAGAACTATCCACTTG  
ACGTCCATGAGCCAGCTGCCCCCTCTACCTCACTCCTATTTTAAGTCAG  
TGACACACAATCATGCTTTCCTTTTTTGCACCTGAAGGAGTGATGTCAC  
CCAGACTGAGTCCTTATTAGAGGGGATGATGGAGTGATTTTATGACCTGG  
GAATGGTCTAAAACCTTTTTGGCTTAGGCTAATCATTGGATCCTTCAAGG  
AAATTGGATATTTTGAATGCACATCCCAACCCGGGGTCTTATCAATGAA  
CCCTTACCTTTAAGGCACCTTGTGTTGTTGAAAGGCGGGACAATGAAGCCC  
AGAATGACTTCTGGTTCCCTCCCTTTTGCAATAAAAAGGTTGACCCAAAGCT  
TCCACATAAAATGTCCCTGCCCGGCGGCCGTTTCAAAGGCGAATTCTCA  
CCAATGGCGGCTTTCTTTTGTACCCC

>Sequence 833

ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGGTCAAGTAGAAATCAAACAGT  
CCTAATGGAGTTCATATCTTATGGCATTATAGAAAGGCTTAGTTATGAAA  
CTATCTTGTTATTGTTACTATTACATTGCCTGGCTCATATATATAAAGCA  
TTTAGAGAGACTGTTCCAATAACTCTCATTTAATTGGTGAAAAAATTA  
TATTGGTTTAGATACTTACCTAAATATTACTAGTTAAATTCAAAGTAAAT  
GAGTCTGTATCTTTAAACTACTTGGCAGTAATAATTTTAAAGTAGAT  
TTTTATTGCTTTTCTTGAACATACTAGTGTTTCATACACACAGGTAGTT  
TATTTGTGCTGGAATTAAGGAGTGAGACACATTTGTAAAATGTTCAAA  
TCAACGCCTGTCCATTTTAAATCTCACAAGTTTTTCTTCATGATTAAAC  
ACAATTCACAAAATAAGAAATGGTATTTGGTCACTCTCTGAGTTCAATCT  
GTGCTCTAGTAAATATAACTTGTGAGGAAAAAGTAAAAAGGTCAAGAGTC  
TAATTCATTTTCAGTTTTTAAACTATATTTTAAAAAAGAATGATTTGGG  
GTAAAAATAAAGAN

>Sequence 834

GGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTGGTTTTTTTATCTGACCAC  
TTCCAGGAACAAAGCCAGGGCTCTCTGGGCACCTGAGTATCCATTCTCTT  
TGTATCATCCATTCCATGTCCAGAACACATTCACATCCATGCTTATAGTT  
CCTCATTGCCTGAAGCCTGCTGGGTGGGGCATAGTATGAATACTTGCCCT  
CATCATCCCCATTTACAGATGCATAAACAGAGGCCAGTCAGTATGCCTG  
CAGACTGTGGATAGAGCCCCGAAGCCTCAGGTAGGCAGCTTGCATCCAGC  
TGTGAGTCCCAGCTAGGGGAACTGAGTCAGCCTCCATCACTCCGTGTCTC  
GGTTTTCTGACCTCTCAGGTGGGTATCATGATGCTGGCTTTGGAGGGTAG  
CTGTGAGTATTAAATTACGCTGATGCAGGGCAGGTGAGCCCCCAAATTG  
GGTTTTAGCTTGCGAGAGTTCTTGGCTTTGCCTAGGAAATAATTCAAGGG  
CTTCAAGGGCTAGCCAGTGGTGTTAGCAACTTTTCTTGAAGTGGCAGTGT

>Sequence 835

GGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTAATTCAATGGAAG  
AAAAGTCCAGCTTAATAACTTTAATGGAGAAAGAAGGAAGCAGTATAAAT  
TTGTGGAGACTCCAATCACATGTCTCCACTCTGCTACCCTGGGCCCAA  
ATAAGGGAGGAGACACTCAGAGCCAGGTGTTCCCTTGATGGGAATGTGA



Table 2

TCAGGTGCGACATGGGCTCACAGCCTCACTGAGGCTGGATCTTTTTTTTC  
TGTTCCCTCTGAGTCATGGAAGTGTTCAAAAGGAATCATGAGGGTATTTTC  
GTTACTTTTACTTACTTTTACCCCATCACAAATCAGTGCACTTTCCTAGAAGG  
GAATTTTATTTTGATTATCGGAAATTTACAGCTTCTCCTTCTGCAACTTT  
AATTTTCTTTCTCCTGTTCTTACTATTTTCTTATTACAAATCTCTTTCT  
GGGTGTGTTGTGGGAATTCCTTAATCTATTTTCCCGTGGCCTCTCAATCC  
TCTTAATTAATTATTGTTCCATTGTTTCGATCGTCTGGGTGGCATTGTGT  
GTTTTTACCTGGCCCCGAGGCGGCGCCTTCAAAAGCCGAATTCACACAC  
ACTGGCTGGACTCTTATATATGGTACCAATCTCGATACCTNGCT

&gt;Sequence 836

GGTACTTAGCAAAGAGACTTACACATTAGTGAAAAATCTAAAAATCAGCCT  
TACGTGGGATCTGCCCAAAGTATTATTTGCAAAAGTATCATTTTCAGTTT  
TAACTTTTAGGGGGAGCAGGGTAGGCTGGGGTGACACACACAAATCTAGG  
CAGGCAGAGAGCTTGCTTTCCTCAGCTTCTTACCCTTAGTAAGACCACTT  
TAGTAGGACACTTAAGTATTTTCAGTCAGCGGATTTGAATCTGACTTCTTG  
GATGCATCTGTATCAAAACATACCATTAGATGTGTTACAGAACTGAGCAG  
CATATCATTAGATGTGTTACAGAACTGAGTCTTACTTACAATAATTAATT  
TAATTTCAATAGCGATCCCCACCATTTATGTCCTAGGCATCTACACAATT  
GGTCTCTGAGCGAAAACACAGCCTTATCTGCAATAAAAGCCTCTGCTNTG  
CTTTGGCATGTTTTTACAATCCCGCGC

&gt;Sequence 837

ACTTTTTTTTTTTTTTTTTTTTTTTTGCAAACTTTAATAGGTTTTCTTAG  
CTTGACAACTCATTCTCTATATTCACGAACATCTCCTGACTTGTTCTTC  
AGTGGAGATACCCTTTTCTAGCCAGAGTTGGCAAAAGTAGCAATAGCATG  
CATTGGCTTGTTTGAGAGGCCCTGGGTGAGCCTTTGTTGCATAAAGTAGG  
AGGTCTGTATTGTCTTGGTAGCATATGCCTTCATTATAAGTTTGCCTCT  
TTGAAAGAATATTCAAAGACCAACACAAAAGAGAACATTTCCAGATCCAA  
GAGAGTGTATGTAGAAACAGTGACAAGTTAGAAAATCACTTAGGTATCA  
GATAGCAGCCACAAAATATGTTCTGAGGAAAAATTCATAGCAATTTATAA  
CAGCTGAGAAAAAGAGGGAGGATGCGGGAAGGTAGATTTTGTGAGAACTT  
ACTAGACTAAGGATNTATTGCATATTTTTTACTAATTAATGTTGGGGAT  
GTCAGACGTGGTTGAAAATAATTAAGTCTGGTTAAATAAGGCTTTTTTC  
ACCCTAGCTTACCTA

&gt;Sequence 838

ACTACAAAAATAATGAAGCCAGCTAATTACCATCAGGTTACAACTTTACA  
AAGAAAGTGAAGCAGCAAAGAGCTGAAGCAGAAATGACATAGGAAAACAGC  
AGCAAAGTCTTTGAGTCCCAACAGTCCACCTCAAAGACAAACATACTAAA  
GAACAAAGGCCCCCTAATCCACCTCCTCACCCGCGTACTTTNTTTTTTTT  
TTTTTTTTTTTTTCCAGTTTCTGTTTCAAATTCCTTATTATACATCATGGT  
TGCACAATTTGAGGCTGGTTAAATACAATTGGTTTTCAAATCTCTTTGA  
ATATTTTCTGGCTTATTACATGCAAATGACCATGAAAATATTTGGCATT  
TAAAATTCTGAAACTCTGAATAGGCACTTGCATGAAGGAAAAACATTACCA  
TTCATAGATATCCACATGTAGAACAGATGCTCCAGCACATGGTGGTACC

&gt;Sequence 839

GGTACGGACAAGGGGGCGACTGGCATGTGGTTTGTCTTGGTCTTGTAGT  
CGGTTTGGAATTTTCTAAGTCAGGGTGGGGTGGGGGGACTGTGCACGAGT  
CATGTGCAGACTGGAACCCATCTCCCCCTCGGTCTGCAAGTTAAACAAT  
TGGGTTGTCTTCTCAGCATCTGCCAATGTCTTACTCAATCTTGGATC  
AAAAGGGCGTTGGAGGAGGAGGCTGGGAGGGAAATCCAGACAGTTCTCCG  
CCTCTGACATCAGGTCCAGCTGTTAGCATCGTGCTGTGGGTCCCTGAACA  
AGAAGCAAAGTCAGGACTGGTTTGGCCAGGTAGGTGAGGATCCAGTGTG  
GGTGATTCTGATCCATGCAGCCCTTAGAGGCGACACAGACGTGAACTGGA  
CATTTAGGAAGAAAGAGCCGACTGCCGGGTGACCTGTCTAGTTCACATC  
CACTCACCAATTTCCCTCCTCGTTCTTATTCTTAGAAATAAGACTCTGACG  
CTCTCTTTATACAGGCTAGTCCCTATAGGCATGTCATGGTGATTATTT  
GCAATCCTCCTGACTTTCCTAAGAAGAGATCAGACTTAGCAGGGTAGTC

Table 2

C

&gt;Sequence 840

GGTACAAATAAATGTATCTTGGGTTAAGTGCTATAAAGGAAAAGAACAGG  
TTCAATGGAAGGAAAAATTAGAATTGTTGATACATGAATGGAAGTAAATG  
ACCCGGACTTCCAACCTCAAATCTCTGTCTCATTTACCTCTTTGTAAAT  
AATCATTGCTATTATGTTAAATATCACAACACTACTGTCATTTCTTGTTTAC  
CCACTACATTCTAAGCTTGGTGCTGACATCTTTGTATTTATTATATAAAA  
TTCTCAAAATTAATCTGCCCCGTTAGGCTTTCTTATCACTTATTTCAAATG  
CAAAAATAAGGTCCAGGGAAGATAATTATGTAACCTGTTTCATGATTGGAG  
AGCTAATAAGTGTCAGAAATGAATTGAACCAAAAGTTGGTGTGACAAAGCC  
TCTGTTTTAAGCAAAAAGGGAAGGAAAAAATTCTCATTAACCTCAAGGATTAT  
CATTAGGAGTCCAACAGGGTTCCCAATTTGGGAACACTACTATTTTCATTATC  
ATATGGCAAATGGTCCACTATGTTAGATGAGAAGGCAAAAAAAAAAAAAA  
AAAAAAGG

&gt;Sequence 841

GGTACACTTAAAAATGTATGTGCTGTTCTAATGCTACTTATTATTATTC  
CTTCCTTTGTAGAATGTATCNCACATAAAAGTGTTTAACTCTGACTATAAC  
AATTATTGTAACTATTAAAGGGGTAATTATACTCTAAGCTTCCAGTTT  
TCAGTTAAACAAAAATGATTAATATGCCTATACAGAACCTTTCTCCAGCA  
CTTGGTAAGTATTTTTTAAAGTGAAGTCTATTGAGACTGCAACCAAGTAA  
CTATTTATGCTTATAATTTTTCTCACGATGGATTTCTGTTCTTTGTTGC  
ATTGTTTGTGTTTATTTTATGTGATCTTTTTTAGCTACAAGGTGGGAAAA  
TGACAGTGGTTTAGAGATAAGAAGCACATGAATGGAAAGTAAATATGTGG  
AGATTTTTGGCCACTCTGTAACTACTATCTGAAGTAGTTTTAAATATTT  
TTAGTTGGTAAGAGGATGTACCTGGCCGGGCGGGCCGTCGAAAGGG

&gt;Sequence 842

GGTACAGTGGCGTGATCATAGCTCACTGCAACCTCCACCTCACAGGCTCA  
AGTGATCCTCCCACCACAGCTTCCAAATAGCTGGGACCACAGGTGCAAGC  
CACCACACTTATTAATGTAGATTTCCCTTTGTAGATGTAGATTTCTTTAC  
AAAGTGACAGCTTTTCAGAGCTAGTCCTATGTCTGCAGTTTCTCAGAATA  
ACCAGCTCAAAATATGCCAGAGAAGTATATTTTGGGGTGCCATATTCTAG  
TCTCCTCCAGTCATATTTGGGGTGGTGTGTCCTGAGCCCCAACAAAGATA  
GGGTTCATTTTGAAAATTGCTCTTCCAGTCCCACTGTTTCATCTCATAAG  
CCCAGGAATCACCACCTGTTGATTTCTAGGCATCTTCTTGCTCAGGGGA  
GTAGATGTTTGGTGGACTAGAAATGCAGGGAGGAGAAAAGGAAGGCTTGG  
TGATGTCAAGGATTTTTTAAAGCCAACCTATCTCACTGTGGTCTCTTAATA  
GTCACCCTCTGGGCTGCTCATTTTCATGAAGCTTAAAGCTGATAAAGTGGG  
GGACAAAAGGGTTTGGGTAACAAATTAATTTTTGTCTCCGGAAATACCAA  
CCATACTTTTCTGGCTGGCTTGAGGAAAAATTTAACTGGGGATTAATTCTG  
GCTAATTGGTTGGGAGCCCCCANTAGATTTTACTACAATAAAGAGGTCTG  
TCCCGGGGGCCGCTAAAAAG

&gt;Sequence 843

GGTACTTTTTTTTTTTTTTTTTTGCCTATTAATTGATTAGGAAAAATAG  
GTAGACCCTGAGTGAAAAGTAGAAAAGAACCATTCTGGTAAAAATTCTGAA  
AGTAGAAAAGAACCTTTAGCTTTAAAGGTATGTCTTAATAGAGCAGTGCT  
AAGACAGGTGGTTAGGTATGTGAATGCATGCCACTTAGAAAAGAATATGA  
AGGAGAAGGGACCAAGAAGGCAGATACATTGCCCCTGATAAAGAAGTCAT  
TTTTCTCTACCTTTACATAAATATCAGCCACTAAAAATCTAGGAGCACA  
AATAATGAAAGCGAACCCTGTTGCTCTGTTTGTGGAAGGCTCATTAAAT  
ACCTGCCCCGGGCGGGCGGTGCGAAAGGG

&gt;Sequence 844

ACAAGAGAACGGACGGCACTTACTGAGCCCATCGCAAATGTCAGGCTCTG  
TGCTATACTTACATATCCCATAATCTTCAAGACCCCTCAAGACCCACAA  
AGTAACACAAAAGCAGGAACTAACTCAGATTTACTTGCCAAAGGTCACAC  
AGTTAATACATGGTGGAAATCAGGACTCAAAATCAGGCCTGTGTGACTCCA  
AAGTCCAGTGCTCTCTCCACTTTACCAGGTAACCTTCATAATACCGGATT

Table 2

GGAAATCAAACCTGTCACCTTACTTTCTATGTCCCTGAGTGAGTCACAACT  
TCTCTCAACCAGCTTTTTTCATGTACCTTGGGCGCGACCACGCTA

>Sequence 845

GGTACCAGGAAATTGGTTTGATTGCCATAGGCTAACCTTGGACCAATCAC  
TGTGGCCAAATACATGAGGATCCTTATTGGCTCCTTCTACTAGCAACAGA  
TGGTTTAGAGAACAGTGTATCACAGAGAAATGGGGATCACTATTATAGGC  
AGATTGAATAATAAATGTTCACTCTACTACTCAATAAATATTTGTTGAAC  
AAATCAAAGCTGATCCCTTTTTTCAAAATTTTAAATGTGACTCTTAGGGG  
ATGGTGGATCCAGGAGAGAAGATTAGTGCCACACTGAAAAGAGAATTTGG  
TGAGGAAGCTCTCAACTCCTTACAGAAAAACAGTGCTGAGAAGAGAGAAA  
TAGAGGAAAAGTTGCACAACTCTTCAACCAAGACCACCTAGTGATATAT  
AAGGGATATGTTGATGATCCTCGAAACACTGATAATGCCTGGATGGAAAC  
AGAAGCTGGGAACTACCATGACGAAACAGGTGAGATAATGGATAATCTTA  
TGCTAGAAGCTGAAAAAGATGCTGAAAAAGGTGAAATGGGTGGACATCAA  
TGATTAACCGGAACCTTATTGCCAGTCACTCTCAATTCAATAAACTTGT  
GGTTGAGAAACGAGATGCACCCTGGAGCGAGGACTTCTGAAGCTTACTGC  
CTTGCGTGGAACTGATGGTCTCCGTGTAAGCCAAAGCCCCCGAAGAGCC  
TATTCTTGAAAAAGG

>Sequence 846

ACTTTACTTATTTATTTATTTATTTATTGTTTTACTATTTACAAAACAA  
AATGTAGCTTTCTTAAAAATTGTTAGTTAAATGTTTTCTTTGTTTTCCCA  
ATAAAATGTAAAGTTTAAATATGTGATGGCTAAACTCCTAAGGGGATAAGG  
AGGCGCTAGGAGAAATAGGCAGGTTGAAAAAGGGTAGTCGGGACTTGTCCA  
GATTCTTGTGTGGTAGTCTGGGTAGTCTGTATATTTACCATATGGGCTAC  
AAGACA  
CACACACCCTTGTGAGCATTATTAATTCGCAGTTGATGGTGATAGTTT  
GCGGAGTGGGTAAAGGATATGTTACTTTTGTAAGTACCTCGGCCGCGACC  
ACACCTAAGGGC

>Sequence 847

GGTACTATGGTGTGTGTGTGTATGTGTGTGGTGTGTGTGTGTTTAAAGTT  
TAGCCTTTTGTGTTTTGTTTTGGTTGGCAGTAACCGATTTTAAATGACTAG  
CTTTTAAAAATACAGTACTGATCATTCTATTTCCCCCTCTATTGATCCCC  
ACCTCCAAATATCTCATCAACAACCCACTAATCACCACCCAACAATGACT  
AATCAAACTAACCTCTAAACAAATGATAACCATACACAACACTAAAGGAC  
GAACCTGATCTCCTATACTAGGATCCTTAATCATTTTTATTGCCACAAC  
AAACCTCTATGGACTTCATGGCTTATTTATTTACACCATCCACCCCACT  
ATTTATTAACCCCTAACCATGGTCCATTCCCCTTATAAATCGGTCTGCAG  
AAATATTTTGGTTTTCCGTTCTAATATTAAAAAATTCCTTAATCCCCAT  
TCATAATAATAAGGTAAATCTTCATCTCTTAAACCCCTCTGGTTGTTTA  
TAATTGAGAACTATACTTCTACTTATTTAACCATAATCCTTGTGCTAC  
TTGCCCCGTGCTGTCACTTTTAAAGGGCTAATTTCAACACTACTTGGCTGA  
CCTATCCTTGTGAAACCGAGACTTGTTTACCATACTTTGGCGTTAATAA  
TTGGTATAAACTGATTTCTTTGTGAATATTGTAATCACCATAATAATTTT  
CAAAAATACTATCAAGCCTGGAATCTATAAGTTATAAATCACTGTGGTGT  
T

>Sequence 378

TCTTTCCCCTCATATCTATGTTATTTAATATTAATTTTCTTTTAATTGTA  
TTTATTTATTTTATGTATTAATTATTATCATTCTATTCTTAATATATAAT  
TCANNCCCNACATGGTTTATCTCTGAGGCGGCTTCCGCCCGGGCAGGTA  
CCAGGTGGTGAAACCAACTGCTGAACGCACAGCCTACCTCCTGTATTAGC  
GCCGAGTGGACCTGCTGTAAACCCCTGTGTGCGCTGTGTGTGCGCCCACTG  
CCCGCTTGTAGGACACCACCTTACACTCACTTCCCGCCTCTCTTTAGTG  
GCTCTTATAGAGAGAACTCTTTCTCCCTTTGCAAAAAATGGGGCTTAGAAT  
TGAAACAGGAGTATCGCCTTGTGGGTTTCGATGCAACAAACACGAGCTT  
TCTTGTGACTTCTAACTTTTCAAATCAAAATCATTTGGTTGAAACAGAC  
TGTTGCTTGATTTTAGAAAAATACACAAAAACCCATATTTCTGAAATAATG

Table 2

CTGATTCTGAGATAAGAAAGTGGATTTGATCCCCAGTCTCATTGCTTAG  
TAGAATAAATCCTGCACCAGCAACAACACTTGTAAATTTGTGAAAATGAA  
TTTTAATTTTTCTTTAAAAAAGAAATTTTTAAACCATCACACTTTTTT  
TCCCTACCTTTAGATTTTGATAAATGATAAAAAATGAGCCCATTATCAAA  
AGAAAAACTGTTTTTACTCCAAAATGGAATAATCTAAATTTCAAATAAT  
GTACCCTGG

>Sequence 379

CGCTGTCTCCATATGTGCTCATGTGTGGTATCTTACGTTACTTGTAGTA  
TATAGCTCACTTTCGCGCTCGGTAGTATGGTATCGTTTGGTCAACTTTTA  
TTCTCTTGATTTGTATATTATCNANTNNNCNNNGGGGATGGTGTCATAGAG  
GCGGCTACCGAGGNGCCGCGGAGGGACTGCTAGCCAGCCAATAAAATAT  
AAACTCCATTTGTCTTAGTTATATAGAAGTGTGTTCCAGCTTAGAAAAA  
GTCAAACCAATGACTTGTAGAACAATCTACTCTCATTTTTTATTACGCT  
CTAGAACATGGAAGCTTTAAAGTGAATTGGCTAAATAGGCAAGACCTTC  
TGAAAGTTAACATCTTAATGATTAAAAACAGTAAGTACGCACAACCGAAG  
CGTAGAGTCACACTTGCAACAAAAGGTTACAATATTGTAATGGGCTCTGT  
CCGGTCTGTCTGTCCAGCTGGACCATCTATTTTCATCCTCCTCCTCTGAG  
CTGTCATTTAATTGCTCATAACAGTAGAGATCAGTTGTCTCTGGTTGCAA  
ATCTAACATATATTTATGCAATGTAGGGTGTCTCCATGCATGATTACAG  
CTGGGTTTCTCTACGTGTTCTTGATGATCTGCAACAAGACATACCTCGAC  
CGGGCCACCGGCCCTTATATTATGGAATCTTTGCTTTTTGGCCAGAGGT  
CTTTGCTTTTTTCAGGACACAAGGGCTTTTGACAGGTAATACACCTAACG  
TTGCAGTGACGGTGGT

>Sequence 380

TCGTTCTTTTTTATCTTCATTAAGTTTTTCTTTTATACTAGCTATTGTA  
ATATTTTATTTATTGTCTTATAAATTATAATTTATTTACTATTANN  
ATNNNTNTTGTGANATTGTCTACTGAGGCGGGCTCCGAGGTACGTTAGCT  
CATTTTCCCTTAAGCGGGTTGTGACGTCGTTGAAATTGCAACGCTCAAAC  
TTCAAACACTTGGTATACACTTGTAAACCCAGCTTTGTTAATGAGACACGC  
ATCAAAATCAGATGAACAATTGACGGCTGTTTTGCAGTCAGCAGTTGGGT  
TAGGACAGTTGTAGCACTGCAGGCTATGTCCTGAATGGCAGAATGACAGT  
TCGGACGAGCTAGTAATCTGAACAGGACAGAACTCTCTTTGTATTCCCTA  
TTGTGATTGTTACAGAATACTTGTGTAGTAGGTTTAACTACTACACC  
AATTGGTGGCTAAAGACTGTCGTCTCCTATTTATCCTTTTTTAGCCTCGA  
GCCCCGTTTATCCCGCGTTCCTTGCTCGGGCTGGCCGTTCTAGAACTTAG  
TGGAATTCCTTGGGTCTGCTTGAATTTTATTAACAAGGCTTATTCGATAC  
CCAGTTCAACTTTTGGGGGGGGCTCGGGCACCCAGCTTTTTGTAAACCTT  
TAACTGAGGGGTTAATTAGCTCTGCTTGTGTAATTAATGTTTATAGAAT  
GTACCCTGGGTGAAAATGTTATTCTTTTACAATTTACATTACAACATACG  
ATCCTGGCAGCTTTAAGTTTAAAGTCCTGGGTT

>Sequence 381

TTAGATGGCTCACCGCGGTGGCGGCCGAGGTACACCATGTGAAGACTGGA  
CTTAAACAGCTACACCACAGATGCCGAGAGAGAGGCTGGAACATAGCCT  
TCCCTTTGGAGGTAGCCTGGCCCGGTGGGCACTGTGATCTCAGACTTCCA  
GCCTTCAGAACTGTGAGACAATATTTTATTGTTTAAGCCACTTATTTTTT  
GGTACCTGCCCG

>Sequence 382

CCTCTCTCTCTTACTTTATATTATCATTACTCTATTATTATATCTTTA  
TACTCTTTATATATTTATTTGTATTATTTCTTATAATCTTTTTACTGC  
TATTTTATTACNANCAGGGTTGTGCTCGTAGCTCNCTTCGCGNGGCGGC  
CGAGGTACTTTTTTTTGTGTGTTTTTTTTTTGAGACGGAGTTTCACTCT  
TGTGGCCCAGGCTGGAGTGCAACGACACGATCTCAGCTCACTGCAGGGTT  
TGCTCTAGGTTCAAGCTATTCTCCCTCCTCAGCCTCCCAAGTAGCTGG  
GATTACAGGCATGCACCACACGCCCCGCAATGTTTTTTTTGGATGTTTA  
GTAGACGTGGAGTTTCTCATGTTGGCCAGGCTGGTCTCAAACCTCCTGAC  
CTTAGGGGATCCACCTGTCTCAGCCTCCCAAAGTGCTGGGATTATAGGCA

Table 2

TGAGCCATAACGCCCGGCGGCAATAATTGTTAACAGACTACATGAGTAAT  
TGCATAAATGGACGATGTCTTTCCTCTACTTTTAATTTCCAATGACTTCA  
TTATTTATAAAATGATCTCTTTTAAATGATCAGTTCCTACATTTTATT  
CCTTAGAAGCCTCTTTTCCCTTTTTTTTTTCATCTGTCCCAAAATTTTGA  
CACCTTTCTTTAATTCAGTTATTAAGCCACTTTTCTGAGTTTTTTTCATA  
ATAACACCCCTTTTACGGACCATGTTAATN

>Sequence 383

ACCCCTCTTCTCTGTTCTTTATTAATTCATGCTAAATTTACTTATCGT  
GTACATAGGTCTTAATCTAAATTACTACGTCGATCCCCACATATCTAATT  
CTTCNNNNNNNAAGGGATGTGCTCCTCGCGGGCTCCGAGTACTCCAGNC  
CCCANATTCGGGTGTGGGACACGGCTCTCCATTCTTCTTCTTGGCTTTAC  
AGGTTCCCAGGTCAAGAGCTTCACCCATAATTAAGAGCTTCTGAGGATGA  
TCGATAAATAAACACACCTCCTCTTAACCATCCTTGGGCTTCATGGGGGT  
GGCATTGAGGATCCCTACAACAGGCCCTGGTGCCGCTTCCAAAGCGCGT  
TTGGAACCTTCCTCCAAATAAGAACAAAGGACACACATTGGTGTCAGGGTAC  
GAAGATCATTACAGTTTCCATATGCTCAAAGGTTTTTCCACTATTCACACT  
CTTGTTGGCGGTAACCTTTTTTCAATATTAACCCCAAAATGTCACCCCAAT  
CCTATTTCTTCCAAGCTTCTTTTCTGGCCCATCTTTTTCTTGAATCTG  
AGACAAGTCTGATCCAAGTTTTCGGCCGGTCTAAAACTAATGGGGACCC  
CCCGGGGCTGGAAGGAATTTCCAATATCAAACCTTTATCTGATACCCGTCC  
AACCTCCAAGGGGGGGGGCCCGGTACCCCAACTTTTTGTTCCCTTTTATG  
AAGGGGTAATTTGCGCGGCTTGCCGTAATAATGGGCATAGCTGGGTCTT  
TGTGAAAATTCG

>Sequence 384

AGACTGCAGGAGATGTGGGCCGTGCCAAAGAGATGGATGAGACTGTTGCT  
GAGTTCATCAAGAGGACCATCTTGAAAATCCCCATGAATGAAGTACAAC  
AATCCTGAAGGCCTGGGATTTTTTGTCTGAAAATCAACTGCAGACTGTAA  
ATTTCCGACAGAGAAAGGAATCTGTAGTTCAGCACTTGATCCATCTGTGT  
GAGGAAAAGCGTGCAAGTATCAGTGATGCTGCCCTGTTAGACATCATTTA  
TATGCAATTTTCATCAGCACCAGAAAGTTTGGGATGTTTTTCAGATGAGTA  
AAGGACCAGGTGAAGATGTTGACCTTTTTGATATGAAACAATTTAAAAAT  
TCGTTCAAGAAAATTTCTCAGAGAGCATTAAAAAATGTGACAGTCAGCTT  
CAGAGAAACTGAGGAGAATGCAGTCTGGATTTCCAATTGGCTGGGGAACA  
CAGTACCCT

>Sequence 385

TACGCGTACCTCACCGTGTCTGTCTATATACTTGTACTATCTANTTA  
CTAACTAGTCTCGTCTTCTANCACTCTCTCTTCAACTACTACTTATCT  
ATTATCTCGTATTATATATCTCATATTATNGATACTATCATTATAATTT  
AATATAANAAGTATCCGTTGTGCTTCTACGCCGGGCGTGCCGGNAGCAGC  
CGAGGTACTCCGTCTCAGAGGAGGGATGCAAATCTTCGTGAAGACACTCA  
CTGGCAAAGACCATCACCTTGAGGTGAGGCCAGTGACACTATCGAGAAC  
GTCAAAGCAAAGATCCAAGACAAGGAAGGCATTCTCCTGACCAGCAGAG  
GTTGATCTTTGCCGGAAGCAGCTGGAAGATGGGCGCACCTGTCTGACT  
ACAACATCCAGAAAGAGTCTACCCTGCACCTGGTGCTCCGTCTCAGAGGT  
GGGATGCAGATCTTTGTGAAGACCCTGACTGGTAAGA

>Sequence 386

CAGTGTGGGCCCTTTTGAAGTTCGCGGTGCGCCGGGCAGGTACTCCCTGAT  
AAAGGGGAATTTCCATGCCGTCTACAGGGATGACCTGAAGAAATTGCTAG  
AGACCGAGTGTCTCAGTATATCAGGAAAAAGGGTGACAGCTCTGGTTC  
AAAGAGTTGGATATCAACACTGATGGTGAGTTAACTTCCAGGAGTCCTC  
ATTCTGGTGATAAAGATGGGCGTGCCAGCCCAAAAAAAGCCATGAAGA  
AAGCCACAAAGAGTAGCTGAGTTACTGGGCCAGAGGCTGGGCCCCTGGA  
CATGTACTCTCAGAAATGTTTGTCTATGCTTCTTGCAATGCATATTTTTT  
AATCTCAAACGTTTCAATAAAACCATTTTTTTCAGATATAAAGAGAATTACT  
TCAAATCGAGTAATTCAGAAAACTCAAGATTTAAGTTAAAAAGTGTTTT  
GGACTTGGGAACAGGACTTTATACCTCTTTTACTGTAACAAGTACCT

Table 2

## &gt;Sequence 387

AACGAATGTGTCCGTAATTGATGTCCACTTCNCACCGN  
CCAGCCGANNTTATTCTTCAGTCCTNAGCGATGGAGCCCAGGGTCCCTT  
GTTATTGTCCCTTTCTCTCTCAAATGCTTGGCTTGTTNTTCAAGAGAAC  
CTGTCTCGGTGGTCAATTGCTCCATCGATTGGATCCAGTCCTTCTTCAAAN  
CATTGTTCAAGGCACTTTAANGCTAGCCTGAAANCGCTTGAATCCCTTGC  
TAATACTATTCCAGTGTGATCTGAGAGGGTGGTACCCTCTNGCCCGCCTC  
TANGAACTACNGTGGATCCCGCCNGAGGCTGCATTGGAATTCNGAATATC  
NANAGCTTATTNGAGTACCCCGCCNGACACCTCGACGGGNGCGGGCCTCC  
NGGTACTCCANGCTTATTNGTTACACCTTATAAGTNGACTGAGTTTAACT  
TNGTCGCACCNTATAGGCNGTCANTACAATAGTGTCAATACGGCTTGNT  
TGCCTCNGTTGTGAGAAGTTNGATTATCCTGCGTCAACTAATTGCCACA  
ACATACAATACCGACGCCCCGCGCAGGCTATAANANGTCGTTAATAGCTC  
TGGTTGCTNGCGTNATCTCGAGGTGAGGCTAAACCTCAACAACCTTAAAT  
TGCGGNTCGCGCGCTCAACTGGGCGTGCTCTAACACATGACAGGAGAAAC  
CCTCGTCGGTCCGCACACTTGGCGATTTAATTGAGATTNNGGCCCAACTG  
CTCGCCGGTGGAGAGAGCGCGGGTTNACACTATTTAGAGGCGCTTAGTTC  
TCGCTTTCCTTCGACTCAATNTACCTTCCCTTGCCTTCAGGGCGTATCA  
CGCTTCGCGGCCAAGACCGTAATCATACTCTCATCTCAAAAGGGCGGGTG  
ATACCGCGTTATTTCAACANTATATCAGTGGGATAACCGCAAGTAAATAA  
CACTTTGAGCACAACAGGCCCGCACAAAGGCCCATACCCGGGAAAAGCGG  
CCCCCTCTTTGCTTGTCTCTAAAGGTTTCGCCCCCTCTGCGCACGAATT  
AAAATATTGCGACCTCTAAGTACAAGGCG

## &gt;Sequence 388

CCGCGCTTTACACATTGAGTGTCTCTTTCCCNCCAGNCGAGNA  
CCCCAGGGAGAGATCAAAAATCATCACCACCATATAATATCATGGACTA  
ACCCCTAAACCTTCTGCTTAATGAATTAATACTACAAATAACGGGGCAAAGA  
GAGCCACAGCTAATACCCCTAAACCACTAGCTACCTAAGAACAGTAA  
AAGAGCACACTCTTCTATGTAGCAAACTAATGCCAAGACTTATATCTAG  
AATCGACAAACCTACCTAGCCTGGTGATAGCTGTCTGTCCAAGAAAGAAT  
CTTACTTCAACTTTAAATTTGCCACAGAACCCCTTTAAATTCCTCCTAA  
AATTAAGTGATAGTCCAAAGACGAACAGCTCTTTGCACACTACGAAAAAA  
CCTTGTTAAGAAGAGTAAAAAATTAACACCCCATAGTTTGCCCTAAAC  
GCAGTCACTCATTTAACAAAGCTGTTAAACCTAAACACCCACTTACCTAA  
AACAAATCCCCAACCATATAACTGAACTTACTCACACCCAACATGGACCAG  
ATCTATTACCCCTAAAGAAAAAATAATGCTAAGTATAAAGTAAACATGA  
AAACATTCTCCTCCTCATAAGCCTGACTTCAGATTCAAACACCTGAACT  
GTCTTTTAACACCCCAATATCTTCCATCAACCACCAGGTCTTTATTACCC  
TACTGTCAACCCAACACAGCATGCTTCATAAGAAAGGTTAAAAAAAAGTT  
AAGGAACACTGCAAACTTAACCCCCATTTTACCCAAACACTTACCTTTT  
ACCTTACCCAGTATTAGAAAGATCCTTCTTTCCCAAGAAAAATGTTTAAC  
GGGCCCTTAAAAACAACCTGAATCCCCCGGCTTCAATAATTCAATACC

## &gt;Sequence 389

CGAGACTAGTGGCGCTCTTGAGGTCGCGGTTGCTCACGCCTGTAATCTC  
AGCACTTTGGGAGGCTGAAGCAGGCGGATCACGAGGTCAGGAGTTTCAGA  
CCACCTGGCCAACATGGTGAAACCCCGTCTCTACTAAAGATACAAAAG  
TGGGTGTGGTGGCGGGCACCTGTAATCCCAGCTACTTGGGAGGCTGAGGA  
GAAGAATCGTTTGAACCTGGAGGCGAGAGGTTGCAGCGAGCCAAGATCACG  
CCATTGCACTCCAGCCTGGGTGACAGGGCAAGACTCTGTCTCCAAAAAAA  
AAGAAAAAAGGAAAAAAGCCTTTCTTGATGCTGTTCCCCATTTCTCCACT  
AAAAAGCCTGCTTTTCTTAACTCCACACCGAACCAACCTGAAATATTTTG  
GCCAGAATGCCAACAAGAATTGAAGAAAAGATGCTTTACAAAAATAACA  
ATATAAAAGCAAAATTATATTATCCCTTTTATCTCCATTCTTACATTAAAA  
AAAAAAAAT

## &gt;Sequence 390

CCCAATCTTTCTCCTCGGAACGCGATCTCTCTGTACTTTATTTAATTTT

Table 2

TCGCTTACGGTGCGATATTT

&gt;Sequence 391

TGNTTGTCTCTCTCCGAGGGCGGCCGAGGTACGCGGGATGGGATTTCTG  
ACCATTTGCCCTGCCTCTTGCAAAATAGGTCTAATGGCAGGATGGTGTCA  
TAATTAAGGCTACCAAGACTGCCCATGTGTTCCAGGCTGGGCAGTTCATAA  
TGGGGGCAGACAATAGTGCAAAAAAATTTTACATTTTATCTTTAGAGTGT  
CAGGGTCAAATTGATTTCCATGGTTGAGGATGTAGCCAAGTGTGGAATCA  
GGTGGAATAGGTGGAGAGTTGCCCATAGTGGTTTGGAAAAGAGAAGAGGA  
CTTTGAAAAGTGGAGGGGCTCATTAGGTGACCCAAATTTTACCTGGGGCAT  
CCCCCTTTAGGGCCCCAACCTTAGTCTGTCAGACATCTCTGACCTTAGAT  
GGGTGCTGGCACCCTTTGGAATGGTTCCTCCATCACTGAGGACCTGAC  
TTAAAGTTTTTCTATCTCACTTAAACAACCCCTTTAACGCTCTCAACTTA  
GGCAATAATAAATTCCTTTTCATGAATTCCTTCACCACCATGCACCACA  
CAGACCACATGCCCGGACCCTCTGACTTGTGTAACCTTTTGTGCATAGCT  
AGGTGGGGTTTCTGGCCT

&gt;Sequence 392

CTTATATTGCCTTATATTTTATTAATACTATATTTTTCTACCGTTTTTT  
ATCCATAAATTTTCTTGTTATATATGGTTTTGAACACTCATATAATTTTA  
TTATNTTANTATTATGTTTGTAGCGATTCACTCT

&gt;Sequence 393

CCGGGCAGGTACAGGACACAGGCACTCCTTTGTCTGGTAGAGAGGAGGAG  
GGGAAATGGAGCTATTCCAGGATACAAGGGATGGCACTGAGGGATGCATA  
AGTCCCCTGCCTCCCTTGCTCAACATGTTCTCCTCTGCCAGCCAGTCA  
GCTTGGGGAGCTAGGTATCAGAAACCTGAAGGATCCAGCCCGCTTTGTCC  
TACTAGTGTCTATAAGTCTCTGCTCCTGAGATCCTGGGGCTCCTCTATTT  
CTAGAAGGGATGAGGTGCCATCAAAAATAAAGTGGCTGGTGTAAACAGTTT  
AGAGAAGGAAGTCACACCTGTAGCCTGGCTGGCAGGCAGGTGGACATGAG  
GCTGAGAAGGGAAGCCAGATGTGCAAACTACTAGGCTAGCATGCCTGCT

&gt;Sequence 394

GGTGCGCTTACCGGTGGCGGCCGAGGTACCAGGCTGGCGACAGGTGCTA  
CCAGGAGTGGGCTGAGGGGAGAAAACTATCTCCCACTCTTTTGCCCCAG  
GCAATGTCAACGACTTCCACATTCCCTGGCCCACTGGCTGAGCAACCCCA  
GGTTCCGGCTCTGTATAAGGACCCTCCCTCCCAACCCCAACCCAGAGTGC  
AGTGCAAATCAACCAACAATTTACTGGTGGGAATGGCAATCAAAGGAAACA  
GTTAAACACCAAACAATTTCTTAAAGCCAAAAAATATTTTTTCATGGAGTT  
GAACATTTTTTCGAGTGTGTTTTTTCAAGTGTAAAAGCAGTGACATTTTG  
TTCAAACAGAAGCAGCATCTAGGAATTTCTGGCACTTGGGTTCTAGGGGGT  
TACAGGTATGCATCATGGATTCTTCTCCCTCGTATTTAAAAAGA

&gt;Sequence 395

GGCGACCCTTATCTGGTGGCGGCCGAGTACTTCATTTACACTTAAGCTAG  
AGAGTTAGGATCTTAATTTATTTAAAGCCATAGATTCAGTTTAGCTTTAA  
CCTAGACAGAAAGTGAAAAGCATTTTACAAGTAGAAGAGGCAATGAGAAA  
TAAGGCAACAGATAATACGTCAAAGCTGGAACAAGGGCAGAATCAGAACG  
TGTCTGGCTATCAGCTTTGTTTTTGACTACTAAGGCCAACCTTTTTATTCT  
CTCTGGATGGTCTGCAGACCAAGTTCAGAATTTAGGCAAAAAGGATTTCCA  
AATGGATCCCTATACATTTTCAGAAAGATTCAGGTTGAGGAAGAAGCCACA  
GAGGGCTTGTGATGAACCCAAAGGAATCTTTAAAGAAAGGGGTTCTCAAA  
ATGCATTGGCCAGGTAGATTTGGTTAACTTGGCAGGGAAAACTTGTCTG  
GGGAGC

&gt;Sequence 396

TACGGAGCCCGGGGAGCCATAAAAAAGTGTTAAAAGGCCTGGGGGGTGCCC  
TTAATGGAGTGGAGGCCTAAACCTCCACAATTTAAATTGGCGTTTTGCGG  
CTCAACTGGCCNCGGCTTTTTCCAGTACGGGGGAAAAACCTGGTCCGTG

&gt;Sequence 397

CTCTTAGTGGAGGGGTTAAATTGGCGCCGCCTTGGGCGTAAATCAATGGG  
TCCAATAGCCTGGTTTTCCCTGTGGTGGAAAATTGGTTTATCCCGCCTCA

Table 2

CAAATTTGCCACCACAAACCATTACCGAGGCCCGGGGAGGCATTAAAAGG  
TGTTAAAAGCCCTGGGGGGTGCCCCATAATGGAGGTGGAGCCTAAACCTG  
CACCATTAAATTTGCCGTTTTGGCGGCTTCAACTTGGCCCCGCTTTTTTC  
CCAGGTCGGGGAAAAAACCCCTGGTCGGTG

>Sequence 398

GGGACCACTACCGGGCGCGGCCGAGGTACAAAATTTAGAGGTTTCCCC  
TTTATCAACAAGAGACCCAGGTGCCAGCATGTTACTACCAGATCCAGTTC  
TTCTTAGGACAGTGTGGCTCAAAGGGATGAGACCTTCCAGACACTGGTAT  
CTGAGCATCTGGGCCTGCCCCCTGAGTTGTCAAGAAATTTCTTATCTCTGA  
AGGAGTCCAGACAGGAATGCTTCCACTGCTGGGTGGGTGCTCGCCCCCTCT  
TGCTCCTTAAGCGCCCGGCTCACCCCTTGCTAGCACAGGGTGTCTTACA  
CAGTTTATGGGACTTTTCTGTGAACCTACCTGAGGGCAAGAACCATGTCCC  
ACTCCCTGCTTGCTCCTCAAATATTTTATAGGAAAGCAGTCCACAGTCTC  
ACACAGAGGAAACATGAAGTTTAAGTTCTAGCCCTATGA

>Sequence 399

GCCTCCTTCGCCCTTCTATCTCCCTTCGTATTTATTCTGAATCTGCTCAGA  
TACTCATCTCTTCTTCTTATACGTATTCTATTATTTTCGTTTCACGCTCAT  
AGTGATNACTCTTTTAAATAAAATAATATATGGGTTGTGCGCGGAGGCC  
GCCGAGTACTCGGGGAGAGAGGAAAAGAACACAGATCTCGCATGGTTCAG  
ATTTTTCTTTTTAGGTCCAGGAGTAAGATATATCATACGAAAATGAAAAT  
TATAATTTCTTGGATTCTGCGGAGCCACATTGTGAGCCCCACTTATCC  
CACAGCGTCTCATGTCTGCCAGCAATAGCAATGAGTTACTTCTTAATCTT  
AATAATGGTCAACTTTTGCCACTACAACCTCAGGGCCCCACTTAATTCATG  
GATTCACCTTTCTCTGGAATTTTACAACAGCAGCAGCAGGCTCAAATTC  
CAGGACTCTCCAGTTCTCTTTATCAGCTCTAGACCAGTTTGCTGGACTG  
CTCCCAAATCAGATACCCCTTAACAGGAGAGGCCAGTTTTGCCCAAAGGAG  
CCCAGGCAGGCCAAGGTGATCCCTTAACGTTTTTAAAACACCCCGCTAAGAC  
ACAACCAGGCCCAATCACGTGAAGCCCTATGTATTCTCCTTCAAAAAGC  
CTAAAGAGGCAGGACAGATGTTTAAATACTATTCCAGTTACATGGGCCTA  
CCCTGGGAACCCCTCAGAAACAGGTTCCAGGGCACCTTAACCAAACAGA  
ACGGTATCTGTTTGGGGAGCCCATTCATTTTTGCTTAAACG

>Sequence 400

TGTGTATTGCCGAGGTACAGACAGTGCTTGATGTTTCATAAAAAATACAAT  
GCCCTGGTAAATGTCTGCATTCAACAATGACGCTGGCTTTGTGGCTGCTCT  
TGATAAGGCTTGTGGTTCGCTTCATAAACAACAACGCGGTTACCAAGATGG  
CCCAATCATCCAGTAAATCCCCTGAGTTGCTGGCTCGATACTGTGACTCC  
TTGTTGAAGAAAAGTTCCAAGAACCAGAGGAGGCAGAACTAGAAGACAC  
ACTCAATCAAGTGATGGTTGTCTTCAAGTACCTGCCCCGGGCGGTGAGCG  
GCCGCCCGGGCAGGTACGCGGGGGCTAACCCAGGCCAGTGACAGAAATGGA  
TTCGAAATACCAGTGTGTGAAGCTGAATGATGGTCACTTCATGCCTGTCC  
TGGGATTTGGCACCTATGCGCCTGCAGAGGTTCTTAAAAGTAAAGCTCTA  
GAGGCCGTCAAATTGGCAATAGAAGCCGGGCTCCACCATATTGAGTGTGC  
CCATGTTTACAATAATGAGGAGCAGGTTGGAACCTGGCCATCCAAACCAAG  
ATTGGAAATTGGCATTGTAAGAGGGAAGACCTTAATTTCCATTTCAGAGG  
CTTGGGCCCAAATCCATTCTACCCCGGGTGTTCACCCGCCCTTGAAGG  
GGGCCTCAAAAATATTTCAATTATGCCATG

>Sequence 401

GGTCGATCGGCGGTGGCGGCCGTTGACCTTGATGTACAGAGCAATTAG  
GAGAGTCAGAGGATGAAATAGATGAACCCGACCATGCAGTTAATCACCAA  
CATCAACTACTAGCCAGACGGGATGAACCACAGCGTCACACAATACAGTG  
TTCCTGTTGTAAGTGTAACAACACACTGCAGCTGGTAGTAGAAGCCTCAC  
GGGATACTCTGCGACAACTACAGCAGCTGTTTATGGACTCACTAGGATTT  
GTGTGTCGTGGTGTGCAACTGCAACCAAGTAACCTGCTATGGCCAATTG  
TGAAGAGATGGGAGTCTCCCCGTATTGCCAGGCCGGTCTCAAACCTCTG  
GGCTCAAGCAATCTTCCCGCCCCACTTCCCGAAGCCCTAGGATTACGGGA  
GTGAGCCACCGCACCCAGCCAGAAAAACGTTTCAAATATTGGAAAACCTT



Table 2

ACTTTTTTCAATGAGCATTTTTGCATCAAGGGGTAACAGGGACATTAGGC  
TTTTTTTTCTTTTAACTTCCAACAGGAAGGGTCGGAATTTATCAAGACA  
TTACATAGGAGTTAGGGCACAGCCACGGGTGGTGGTGGGGAGGACATTTT  
CCAGCCTTATTAACAGGGTTTATTATAAACAGGGTGGGCCCACTACTTGT  
CTAACCTAATTCAGGTCAAGATGTGT

>Sequence 402

GCGATTGGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACACATATCC  
TCTGTGGGAAAAAGTCTCTCAGAGTGTGCACTCTCCCCACAAGCCAGCG  
CTCAAACCTGGAAAAAGTATCTCAATGTCCTGAATGTGGGAAAAACCTTTAG  
CCGAAGTTCTTATCTTGTTCGGCATCAAAGAATCCACACAGGCGAGAAGC  
CTCACAAGTGCAGTGAGTGCGGGAAGGGCTTTAGTGAGCGCTCCAACCTC  
ACTGCCACCTACGAACCTCACACAGGGGAGAGGCCCTATCAGTGTGGGCA  
ATGTGGGAAAAAGCTTCAACCAGAGTTCCAGCCTCATTGTCCACCAGAGGA  
CCCATACCGGGGAAAAAGCCTTACCAGTGCATTGTCTGTGGAAAGAGATTC  
ACAACAGTTCCAGTTCAGTGCTCACCGGCG

>Sequence 403

AGGTACCAAATTAAGTATTAATAATGAGGATTGAACTGGGGCAAACAGGTT  
ATTGTGAAAACAGTCAATATGTAAGCTCCTTCAAGGGAAATCAACTACTG  
TTCCTCAAGATTAGAAGATGTCCACACTCTTTCGATTACCTCCCTAAAGG  
AGGAAACACCCATTAATTTTCCCTTATGGAATCAATATGGAGTGGAAATA  
TGAAATGAGGAGATGTTTTAGAAAGCAGGACATATCTACCTACCATTACT  
GGAATTAATAATGTATCCTCTGGGCCCACTCCATTGATTCCGATCTGAGGT  
GAGGAGGACTAAAAGCAGCAGCAGGTTACAGAAAGACTGAATAAGATGAA  
AGTATGCTACGTATGTCTAGCTGGGGAAGGGGGGATCTGGAAAAAA

>Sequence 404

TGGGGTGAGGTTTGATNCAGGGTCCGCCGCCCGGGCAGGTACGGACGCCC  
AGGGATCCGCGCCGAAGCTAGCACGCAGCCTACCCAACAGTCTACACAGC  
CGACCAAAGCCCCCGCTACCCAGAGGAGTCGCTGGTGAGTGGGAGCTCA  
ACCCTGTTCAGTGCTCTGCTCATCAAGTGTCTGGAGAAGGAGGTTGCGGC  
ATTGTGCAGATACACACCCCGCAGGAACATCCCTCCTTATTTTGTGGCTT  
TGGTGGCACAGGAAGAAGAGTTGGATGACCAGAAAATTCAGGTGACTTCT  
CCAGGCTTCCAAGTGGTCTTTTTACCCTTTGCTGGTGATAAAAAGGAAGAT  
GCCTTTTTCTGAAAAAATTATGGCCCTCCAAAACCAGGGGGCCATGAAG  
AAGTGTTTTTTAAGAAAATGCTTTTGTCTTAACAATACAGAAGGTGCCATT  
TTAAAAAATCCCCCTTGTCTGCATTAACCATTTTAGGAACTTGGAGGCCT  
TTGGCCCTTGATTTTTATGGGACCCGGAACATAGCAGGGTTCCCTAACTT  
TCCCCAAGTGTGAAGCTTTGAATAAATGCCCGGCCTCTCTGGGTGGTAA  
TTATAAGGGTTGTTGTTTCCCCCAAAAATTAATTTTTTGGAGGGTAATC  
T

>Sequence 405

GGGCGTGTGTAGATCCCACTCCGCGGTGGCGGCCGAGGTACGCGGGGGGC  
GGCGGCGGAGAGAGCTGGCTCAGGGCGTCCGCTAGGCTCGGACGACCTGC  
TGAGCCTCCCAAACCGCTTCCATAAGGCTTTGCCTTTCCAACCTCAGCTA  
CAGTGTTAGCTAAGTTTGGAAAGAAAGGAAAAAAGAAAAATCCCTGGGCCCC  
TTTTCTTTTGTCTTTTGCCAAAGTCGTCGTTGTAGTCTTTTTGCCCCAAGG  
CTGTTGTGTTTTTAGAGGTGCTATCTCCAGTTCCTTGCACTCCTGTAAAC  
AAGCACCTCAGCGAGAGCAGCAGCAGCGATAGCAGCCGAGAAAGAGCCAG  
CGGGGTGCGCTAGTGTATGACCAGGGCGGGAGATCACAACCGCCAGAGA  
GGATGCTGTGGATCCTTGGCCGACTACCTGACCTCTGCAAAATTCCTTCT  
CTACCTTGGTCACTTCTCTCTACTTGGGGAGATCGGATGTGGCACTTTG  
CGGTGCTGTGTTTCTGGTAGAGCTCTATGGAAACAGCCTCCTTTGACAG  
CAGTCTACGGCCTGGTGGTGGCAGGGTCTGTTCTGGTCCCGGAGCCATC  
ATCGGTGACTGGGTGGACCAAGATGCTA

>Sequence 406

TGAAATTGTTGTCCTGNGATTACCTCCCCGCGGTGGCGGCCGAGGTACAG  
TTCACAGTGCTTGATGATAATAAATGGTTATTTTACTGGTTCATGTATTT

Table 2

ACTATATCATACTTTTTTTCATTAGAGTGTGCTCCTTCTACTTATGTAAA  
AAAAAAGTTACCTCAGGGAGGTCCTTCCTGAGGTCTTCCAGCACACGGCA  
TTGTTATCATAGAAAATGACAGCTCCATGTGTGTTACTGGCCATTACCAC  
CTTCCAGTGGGAAGGATGTGGAGGTGGAAAGCATACTGATGATTTTGTCC  
CCGTGGAGGCCTAAGCTAATGTGTGTGTTTGTGTCTTAGCTTTCAACAAA  
AAAAAGTTTAAAAAGCAAAAAAAAAAAAAAAAAAGTACCTGCCCCG  
>Sequence 407  
TGGGGCGTTGGCCCTCTCCGCGTGGCGGCCGGTGTGCTCATCGTAGCCTC  
GGG  
>Sequence 408  
GTACCTCCACTGGCTGAAGTCTCTACATAGCTCTCAGGAACCTTCGGAAA  
GGCATCCAACCTCTTTTACCAAACCTTAAAGTTTTTTTCCGATTCACTCGCC  
TCATCTTCAGGAAAACCTTCCTCTTCCTTCATATAGTCATGCTTGTGTTA  
TGGTCCCAGCCTACCGCCATGTTTTACAGAAGCCCCGGTCCGCCGGGGCTC  
CCGCGTACCTGCCCGGGCGGCCGCTCGAGGCAGGTAAGTGAATGACACATT  
ACCTCCACACTCTCCCGGACTAGGTGGTCAACAGGGCCACAGGGTTGCTT  
TCTGTCTTTGGTGGGGCAGGGGAGTTGACAGGGATGAGGGTCCAAGGAAT  
TAGCATGAATGACAAGATAACAAGGGAAGAGTTAACCTGTACATAGT  
AGGTTAACTTTTTTCAAGGTTTGGCAGTAGAGGTATTCGAACTTTCACTG  
GCTGAGCCAGATCACGGGAACCTGGGAGCTTTTACTGTGATTCCTCATGT  
AAAAAATTAACAACAATGTCAACTGGGTTGGATGATTTGTTAAGGCCTT  
TAGATTACTTTTAATAACATTTTCCCGAAAAAAAAAAAAAAAAAATAGTAC  
TGGCCGTTTAAACTGGGGTCCCCCGCTGGGGTTTCTTTCAACTTTTCTT  
CCGACTGGG  
>Sequence 409  
CCACTCGCTTCATCTATTTCTATTTATCCATATACTCTGTGTCTTGGC  
GCTATATATTTGTGTATTAACCTACTTTTTTTTCTTCCCACTAATTTTGT  
GATCTACCTAATATTTTCTTCACAATCTNNTTCTATATTTTTTTTCGNAA  
TTTATTTTTCTCATCCGGTGGCGGCCGAGCACCTNATTTTTTTTATTTT  
GCTTTTTTTTCGCGGGAGTTAAATAAAATAAGCATGTCTTCATCCTTTAT  
TCCTAAACATTTACTTATGACAAATGTAACGACTGACAGAAATTTGAAAA  
ATACCAGACACTTCTTAAATGATTTCCCTTGGTTCAAAATTTACCCCTTC  
TTGTTTTCTCTTGCTTTTCAGGTAATTAACCTCTTCTTTTTAGTTTGAA  
CTATGCAGTGCAGATTCTCTGTAGTCTTTCCAAGTGGACGGGTATTAA  
AAAAAACACTTTATATTATGCCAGGTGAGGTGTCAGAACCTGGCTTCG  
GAAAGTGGTTGGCTCACCCCGCTACTGTCCCGGGGTATATTATTTTAT  
TAATTTTTCTTTTTTTCTTCTGTCTGCATGGTTTCTTCTTTTTTCTTC  
TATTTTCCCCCTTTCTACATAAAATTCACCTTTTCAAAATTTTCCCATC  
TTGCCTTATTTTGTAGTTTCTCTTTGTTTCCACTCTTGGTTGAATT  
TTTTTTATTTTTCATTGCTCTTCTTCTTTTACAAGTTCTAGCCTAT  
CCCAGTTTTTAAAGGTTTTTTCCTAACTTTTCCACTCGGTTATTCAA  
TT  
>Sequence 410  
TGTAAGTATGCGTGGGCGGCCCGGGCAGGTACTGTGCAGTAGTAACCATA  
ATTCTAAATGAGGATTATGGATTTTTCTGGAAGATTCTTTTTTCTGTGG  
AACATGATGAGAAATGTTTAGGAGAGGGGACATAGCCATTTTGTATGAA  
GACCAATTCAAGAAAAAATATATGTATGTGTGTGGGTGTATATGTGTGT  
ATATATGTATATATGTGTGTTATGTCATACGCCNATGTATGTTTATATAT  
GTGGTTATACACACGCACGCACACTGACAAACGCATGCACACATGCAC  
GCACAACCTCACTCTATATTTATCTCTGCCTTCCCTGGGGGACTGATGC  
CAGAACCTCTTGTAGATACCACATCCGGGGGTGCTCATGTCCCCTCTGCC  
AATAGCTTAGTCCGGCTGGGCATCGTGGCTCACATTTGTAAACCGCACAC  
TTTGGCAGGCCCAAGCCGGCCGACCACTTGATGTCAAGAGTTTGGGACCA  
TCCTGGCCACATTTGTTAAACCATTTTTTTTCTTAACCTACAAAATATTT  
GCGCATGGGGGACCGCCCTATCAAATTCACCTACTAATGAGGCCCGCGCA  
CGAGAAATGGTTGAACCCGGGATGGGGAGGTTTCAGGGGCCCTATAGCATGC

Table 2

CCATTTCTCCAAGGGGGG

&gt;Sequence 411

TGTAGATCGTGGCGGGGTACGCGGGGTGCTGGGATTACAGGCACGAGCC  
AGTGCGCCCAGCTGCCTGTGTTTCTTTATTAGCTGATCTGGACTGAGGG  
GCTCCTTGAGCAGATGCTGTATTATGGGGATAAGCCACACACTTTCTGAA  
CTGGCCCGGTGAGGGGGACATAACCATTTCTGTGCCACCCCATCAGTA  
CCCACCTATTGTGAGCGAAGGCTCCTCCCCTGCTTGAGTAATGGCCACAG  
ATCTTGCTCGGCACTCCTAAGCTGCATGATGAATTCCTGGGACAACAAG  
ACTGGCTCGTGGTTCCATTCTCCAGATCCTTGGGTTGGCTTCTGGGTGCA  
CTAGGAGATCTGAAATGCTCTCAGGCCACCAGGAAAGTACTGGAAGTAAA  
GTCTGACTCTAAAGAAGATGAAAATCTAGTAATTAATGAAGTCATAAATT  
CTCCCAAAGGGAAAAAACGCAAGGTAGAATCATCAGACAGCTTGTGCTTGT  
AGTTCCTAACCACGCAAGGATCTGAAAAGTGTCTCAGAAGACTACTAGA  
AGAGACGAAACGAAACCTGTGCCTCGAGCGGTCCGCCTGGCAGGTACAAG  
TTGTAGTAAAACAAAGCTTAAAGTTTTTTCATCTTTCTACAGCAAATGGT  
CAGTTATTTATAAACCT

&gt;Sequence 412

GTTGATGGCGCGCCGGCAGGTACTAGAGTTTTCAAGTATGTTCTAAGCAC  
AGAAGTTTCTAAATGGGGCCAAAATTCAGACTTGAGTATGTTCTTTGAAT  
ACCTTAAGAAGTTACAATTAGCCGGGCATGGTGGCCCGTGCCCGTAGTCC  
CAGCTACTTGAGAGGCTGAGGCAGGAGAATCACTTCAACCCAGGAGGTGG  
AGGTTACAGTGAGCAGAGATCGTGCCACTGCACTCCAGCCTGGGTGACAA  
GAGAGACTTGTCTCCAAAAAAAAGTTACACCTAGGTGTGAATTTTGCA  
CAAAGGAGTGACAAACTTATAGTTAAAAGCTGAATAACTTCAGTGTGGTA  
TAAAACGTGGTTTTTAGGCTATGTTTGTGATTGCTGAAAAGAATTCTAGT  
TTACCTCAAAATCCTTCTCTTTCCCAAAATTAAGTGCCTGGCCAGCTGTC  
ATAAATTACATATTCCTTTTGGTTTTTTTAAAGGTTACATGTTCAAGAGT  
GAAAATAGATGTTCTGGTTGAAGGCTACATGCCGGATCTGGTAATGAACC  
TTGTAATGCTGTATTTGCTTCACGGCTTACTATAAATGTTACTTAATACA  
TATCAACTTATTACAATTTACTATAGAGGGTATAAGTAAATTAATCTCTA  
TTT

&gt;Sequence 413

TGGATGTGTGGGCGGAGGTACCTAGTCTATATGAGTTTGATGCTTACAGT  
CAAGGCTATTAGCAAATATTCAGGAAAAGTAAAGCCTAAAGAAGAAAAGA  
GGGAATGAATAGTTTGTCTAGAGATAATAAAGGAAGGTGAATTTTAA  
AAGACAAAATAAGGCTAGAAAAGACTGAGTGGAGAAAAGCCTACAGAATT  
TCAGAAAGCTAAAGAAATTGGAAATTAGATTGAATATAGATAGAAATGGG  
AGGACAATGCAGCCAATGAAAGACTGTGGGGACTAATAAAGGGAGAGCCC  
TGTGGTTTGAAAGTGTCCCTTAATCAGCCTGCAGTGTCTGCAAAACAGAA  
ACCCAGAGAGGGTGCTTGAGAATATACAAGAACCCTTGCGGTGGTGAAGT  
AACAAAACGCAGCCAGGGATTTTCATCAGAAGCATAATCCATTTCATGGCAC  
CAGTCTGGCAGTGTCTGGGGAGCTGGTAAGATACACACAGGCCAGTGTCC  
AGTCTTGATTTGATATGCTGGTATTTTGGTTCTGTGGTATTCTTTTATCA  
AGGACTAAGGGTTCCCATGTGCCTTCGAGGGCATATNTTTCCACCGACA  
CGTCGGGGTCTAGGCCTACGGTGGCTTTAACCTACTTCTACCCCACT  
T

&gt;Sequence 414

TGGAGATCTCCATCGGGGGCGGCAGGTACGCGGGATCCAAGATGAAGTGC  
AGAGAAAATAAAGAATCCAAAGTCATAGTCATGAGGACAGAATAAAGACA  
TTTTATGCCTTTTTGTTTTGTTTTGTTTTCTTTTTGTGGAGAACAGGGT  
CTCTCTATATTGCCAGGCAGGTCTTGAACCTCTGGGCTCATACTGTCT  
CCTGCTTCTGCCTCCCTAAGAGCTGGGATTACAGATGTGAGCCACCATGC  
CCGGCCAGAATAAAGACATTTTAAAACTAAAAAAGAGAGTT  
TGCTTTGCATTAATCTTTTTTTCTTTTTTTTCGTTTTTATTTTTAGTT  
TTTATTTTTTTTGAGACGGAGTCTCACTCTGTCAACCCAGGCTGGAGAGCA  
ATGGCATGGTCTCGGCTCACCGCAACCTCTGCCTCCTGGGTTCAAGTGAT

Table 2

TATCCTGCCTCAGCCTCCTAAGTAGCTGGGATTACAAGGTGTGAGCCACC  
ACGCCTGGCCAGAATAAAGACATTTTAAAACTATAAGAAATAAAATAAAA  
TANTTGTAATACTAACTCAAATTTTAAAAAAAAAAAAAAAAAAGCCCC

>Sequence 415

CTTGAAC TTGTTTTGTCTGCTTCCGCTAGCGGATTTAGTTAACTCAAAGC  
TGTAATTCGGGTATCTCAAAATAATGTGATTACCCCGGAATTACCTTTT  
TCAATGGTCTCTAAAATGCCATAACCTTATAAGGGCCGGTTGATTACGCT  
TTCATATAGTTGGCCCCCTGCCAGTCTATAAAAAAGT

>Sequence 416

TGGTGATCGAGACCTCACCGCGGTGGCGGCCGAGGTACGCGGGGCTGCGG  
AGGACCGTGGGCAGCCAGGGTCCGGTGAAGGATCCCAAAATGGCTGGGCGA  
AAACTTGCTCTAAAAACCATTTGACTGGGTAGCTTTTGCAGAGATCATACC  
CCAGAACCAAAAGGCCATTGCTAGTTCCCTGAAATCCTGGAATGAGACCC  
TCACCTCCAGGTTGGCTGCTTTACCTGAGAATCCACCAGCTATCGACTGG  
GCTTACTACAAGGCCAATGTGGCCAAGGCTGGCTTGGTGGATGACTTTGA  
GAAGAAGTTTAATGCGCTGAAGGTTCCCGTGCCAGAGGATAAATATACTG  
CCCAGGTGGATGCCGAAGAAAAAGAAGATGTGAAATCTTGTGCTGAGTGG  
GTGCTCTCTCAAAGGCCAGGATTGTAGAATATGAGAAAGAGATGGAGAA  
GATGAAGAACCTTAATTCCATTTGATCAGATGACCATTGAGGACTTGAATG  
AAGCCTTTCCAGAAACCAAAATTAGACAGAAAAAGTATTCCTATTGGCCTT  
ACCAACCATTGAGAATTATAAATTGAGTCCAGAAGAGCTTGGCCTTGTAT  
ACACATCTGACTTAAAATATATTTTCAAAAAGAAAAAAAAAAAAAAGTCCT  
GCCGGCGCC

>Sequence 417

TGAANTTGATGCTCTCCGTCTGCGCGGCGCGGACCTTTTTTTTTTTTTT  
TTTTTTTTTTTTGAGAGGGAGTTTTGCTCTTTTTGCCCGGGCTGGAGTGC  
AATGGCACGATCTCGGGTCACTGCCACCTCTGCCTCCTGGGTCAAGTGA  
TTCTCCTGCCTTAGCCTCTTGGGTAGCTGGGATTACAGGCGCCACCACC  
ATGCCTGCCCAATTTTGTATTTTAGTAGAGATGTGGTTTACCATGTTG  
GTCAGACTGGTCTCGAACTCCTGACCTCAAGTGATCCACCCGCTTGGCC  
TCCCAAAGTGTTGGGATTACAGGTGTAAGCCACCGTGCCCGGCCATCAGT  
TGTAATTTCTATATAGCCATGAACAATCAAAATGAGATTAAGAAAAATG  
CCCTTTTTAATTGCTTTTAAAAAGAATAAAATTTTAATGATTAAATTTAAA  
CCAAGAAGGGCCAAACCTTTCCCTTGAATATTACAAACTCTTTTGAAG  
GAATTCAGGAAGTTGAAAGCCCTTCCCTGTTTTCGGGTTTGAAGAAATAT  
TTTTTTAGGGGGGGCTCTTCCCAAAAAATTTCTAAGGTGGGGGGCCTT  
TCTAAAACATTTTTTTTTTTTTTAAAAAAGTTTATTTTTTTGGT  
AGGGGGGGGGCCAAATCTTAAATTTTAAAAAACCCCTCTCTTTTC

>Sequence 418

GCTGTGATGCAATCCNACTCACCGGGTGGCGGCCGAGGTACGCGGGATTT  
TGAATGAATTCTCAACAAAATGTGCTAGCCACTGGGGACGCAAAACAAGT  
AAGATCCCTGTTGCAAGAAATTCATTTTATAGTGAGGGAGGTTGGCATGG  
AGACTAAAATTCTCAGGAAAATGAGATCCGTGTTAGATAGAATCCTGATG  
TGAAATGGGAGGACTCAGGAAGGAGGATCGTCTTTACCTGAGGATTTCTA  
GCCAGAGGTCCCAGATGCCTGGGCTGAGAACCAGCGATAAGGGGGCGTT  
CCCAAAGCAGACACAGGGATAAAGAACAGAGGAGGCAGCAGCATTGCACAG  
CCCCAGGCACAGTGGCAGTTAGGATGGCTGGAGAGTAGGATAGTTCTATG  
GGTTGCCCAAAAAATGTGATGTGCTTCATGTTTTCTCTGACTCATGGATC  
TGGTAGAGACCATAGACATGATATAGACTAACTTGCCCATTTTCACAAG  
AGGAAACCATGCTTATGACTTACCTTAAAGTTTTTTGTTCTGTTTGAAG  
GAAACCATGTGCTTCATGAAACCTACAGTTGACAAGGGAATGTACCTTGC  
CCGGC

>Sequence 419

AGGTACAGTATATTGACCTTAAAAATCAGTAAAGCAGTCATGGAAATAAC  
AGGTCGTGTATTATTCATGGGCACAACTGACTCATGGCTGGGGAAGAAG  
CAGCCACCTTAGACCAGATGGACAAGCCAGATACTGCAGAGAAATTTCTG

Table 2

GGCTTTTNGGGAGACTCTAGATTCAATTCTGTAAAGTTATGATGCAGTTT  
TCTCCTTCCTCTCCTCTCACCTCCTCTGAGCACAGCTTTCAACAAAACT  
TTGCATACCCCGCGTACCTGCCCGGGCGCCGCTCGAGGTACTTCTCTGA  
GCATTGGCCTCTGGCTGGGATTATGCTTCAACAGTCTTGAAATGAGGTCC  
CTGGCTCCCTCTGTTACAAAGTCAGGGAATGTGAATTCACCCGTGATAT  
TCTTTGTAGGTCTCTTGGTATGTGTTTGCCTCAAAGGAGGCTTCCCAA  
CTAAAAATTCATAGCAAAGAACTCCAAGGCTCCAGAGATCCACCTTCTCA  
TCATGCATGCGACCTTCAATCATTTTCAGGGGGCAGGTAGTCCAGGGTGCC  
ACAGAGAGTGGTCTGCTGGAAGAGGAGCATGTACCT

>Sequence 420

NCCCGATGCGNCTTACTTGAGGCGCCCGAGGTACGCGGTGGTCGGCGCCA  
TTTTGTCTCGGCAGCGGTGGCCGTAGCTCCATCGCATTTTATGTTTCTGG  
CGAGAAGGGAACGGAGTTTTCATCAGGTAGATTGGTTTTTGT

>Sequence 421

GAGGGGATCATCCGACCGGGGGGGGGCCGCCCTGCCCTGAAAGACCTCC  
TGCTGGAAGACCTCCAGGATGGAGAAGTGAGGCTGGGTGGCTCCCTGCGA  
GGGGCATTACAGCAACAATGAGAGAATTAATACTTCTTCAGAGTCAGTTT  
CAAAAATGGATCCCAAAGTCAGACCCACTCGCTACAAGCCAATGACACTT  
TCAACAAACAGCAGTGGCTTAACTGTATTCGTCAAGCCAAAGAAACAGTT  
TTGTGTGCTGCCGGGCAAGCTGGGGTGCTTGACTCCGAGGGATCGTTCT  
AAATCCCACCACCGGGAGCAGAGAGCTACAGGGAGAAACAAAACCTTGAGC  
AGATGGACCAATCGGACAGTGAGTCAGACTGTAGTATGGACACGAGTGAG  
GTCAGCCTCGACTGTGAGCGCATGGAACAGACAGACTCTTTCTGTGGAAA  
CAGCAGGCACGGTGAAAGTAACGTCTGACAGAAGCATGTGCACTTCGGGA  
AGCAGGCCTGCATCTTACCTGTACCTTGCCG

>Sequence 422

GGGCTATGTGCANTNTTTTTTGAANNCCNANCTTACCGCGGTGGCGGCCG  
CCCGGGCAGGTACGCGGGAACCTGGGGAATTCTGGCCCTACGTGCATTAC  
AGGCAATGATGGGTTTGTGTGTATGGTGTATGAGATCCTCTACCTCATA  
ACAAAAGGACAGTGGGTAGACTAAGGCAGTAGCTCAAAGGGCTTTGCAAA  
ATTTAATATATTAACAAGAGGCATCTGCTAGAAAACATTCTATTGTAT  
ACATACTGAAAACCTATAAGGTCTCGGATAATTTTTGTTTGATTATTCA  
TTGAAGAAACATTTATTTTCCAA

>Sequence 423

TTTGGANTNGCCACTCCACCGCGGTGGCGGCCGAG  
GTACGCGGGAGAAGGAGATTACCTCAACATAAGAACCGTATGTGAAAAGC  
CCACAGCTAACATCACTCAATGGTGAAAGACTGAAAGCTTTTCCCTA  
AGCTCATGAAGAAGACAAGGAGGCTTGGTTTTGTGGCTTCTATTTAACAT  
GNGTAATGGAAGTTCTAGCCAAAGGAAGTAAGCAAAAAAAAAAATCGAAA  
TTAGACAGGGGGAAGTAAATTTATCTTTTTGTCAGATGATATGACTTATAT  
GTATTATAGAAAACCTTGGGCCAGGTGCAATGGCTCTTGGCTGTAATCCT  
AGCACTNTGGGAGGCCGAGGTGGGTAGATTGCCTGAGCTCAGAAGTTTGA  
GACCAGCCTGGGCAACACGGTGAAACCCCGCCTCTACTAAAAATACCAAAA  
AAAAAAAAAAAAAAAAATTAGCCGGGCGTGCGCATGCTAAGGCAGGAGAATT  
GCGTGAATCTGGGAGGTGGAGGTTGCAATGAGCTTGAACTTGCCACTGC  
ACTCCAGCCCTGGGGGACAGAGCAAGACTCTGTCTCAAAAAAAAAAAAAAC  
GGAGAGAGAACCCTCAAGATTACGCACACACACAGAGCCCTGCTTGA  
ATAATAAATGAGGTCAGCCAAGAAGTTCCGGCATATACAATCAACAGGCA  
AAAATCCCTTGTCTTCTAGCCCTGCGCATTAATAATTTNAAAAAGAACTTA  
GGATACCGGTTCATTTTTATTGCATTCAAAAAAAAAAAAAAAAAAAAAA  
GAACTTGCCCGGC

>Sequence 424

TGAATGATGANGTCNCTTCCGCGGTGGCGGCCGAGGTACTGCCGTAGCCG  
CTCCTCCCGCAGCTGTGCCGCCTCCTTGTCTCCTCCTCATTGTCACTGC  
CAAACAGGTCAATGTCATCATCCTCGTCATCCTCTGCTGGTGTGGCTGGC  
TTCCAAGCTGGTGCCCGTGGGCTACGGTATCCGGAAGCTACAGATTCACT

Table 2

GTGTGGTGGAGGACGACAAGGTGGGGACAGACTTGCTGGAGGAGGAGATC  
ACCAAGTTTGAGGAGCAGTGCAGAGTGTGATATCGCAGCTTTCAACAA  
GATCTGAAGCCTGAGTGTGGGTACCTGCCCCG

>Sequence 425

TGGATGATGAAGTCCTCACCGCGGTGGCGGCCGAGGTAAGTGGTTTA  
AGGATGGAAAAGAGCTAACAAAGTGACAACAAATACAAAATAAGCTTCTTC  
AACAAAGTATCCGGCCTTAAGATCATCAATGTAGCGCCGAGTGACAGTGG  
GGTATACAGTTTTGAGGTGCAGAACCCCTGTTGGCAAAGACAGCTGCACAG  
CTTCATTGCAGTTTCAGGTTGGTTGATTTCTTGGGCTTTTCCTTCATCA  
TTATAATAATGTAGTTCCTGATTTTCATAAATGTATATGGGTGTGTACAT  
CTTCTATAGGATAACATGAGTCCGACATCTTCTGAATCAGCAAATTCAGA  
GGCAATACCATCTCAAGAAGCCACCATTGAGACCACAGCCATTAGCTCAT  
CCATGGTCATCAAGAAGTCCAGAGGAGCCATCAAGGCGTCTATTCTCTT  
AAAATGAGAGGCAGGACTGGCTAGGGTGATGCCTAAAGATGATTCCCAGG  
CTTGACATGCTGGTATTCTTACATATCTATTCTGCTGGCTGTATAATCTGTG  
CGATGAAAATTCAAAACCGAGACAGGAATTTCGCACTTGTTAAAGTGGAA  
GCTCCAAGCCTGAGATCCAATTGG

>Sequence 426

GAATGCTGAAGCCCTCTCCGCGGTGGCCGGCCGCCGGGCAGGTAAGTAA  
TGTGGGAAAGCCTTTTGCCAGAAACCACACCTGACCAACCATCAGCGAAC  
ACATACAGGAGAAAAACCCATGAATGTAAGCAATGTGGAAAAACATTCT  
GTGTGAAGTCAAACCTCACTGAACATCAGAGAACACACAGGGGAGAAAG  
CCCTATGAATGTAATGCATGTGGGAAATCCTTCTGCCACAGATCAGCCCT  
CACTGTGCATCAGAGAAGACACACAGGGGAGAAAACCTTTTGATGTAATG  
AATGTGGGAAAACCTTCCGTCAGAAAGTCGGCCCTAATTGTTACACAGAGA  
ACTCATATAAGACAGAAAACCCCTATGGATGTAATCAATGTGGAAAATCATT  
CTGTGTGAAGTCAAACCTCACTGACATCATAGAACACACACAGGGGAGAA  
AACCCCTATGAATGTAATGGTTGTGGAAAATCATTCTATGTTAAGTCAAAA  
CTAACTGTACCT

>Sequence 427

GAAATGATTANTGCCTGACCGCGGTGGCGGCCGAGGTACCTTACTTAGCA  
GAGCACTTTGCAAACATATTACTTATTAGCAGAGCTCTTTGTAGACCTTC  
CACATCTGGCTGTCAGATCTTAAGGTTGTGAATTTAGGCTCCAGTTATAT  
TCACTGGAGAGCATAATCCACACGGGTTATTTATAAATACAGAGCCCTCT  
GATTGGACGGTCTCCTGCCAAGAACTAGTAATACCCTTGTTTTAAATCT  
TCACAAGGTAAAACTTAAAAAGCCAACCAAAACAAATTGCTCTCCATTCTA  
CTTTTAATTGGGCCAAACAGCATATGCTACAGTAGTAACATGTTTTTCGG  
AGAGTGTAAAAACTCTGTTTACATTTGCCTCCTCCGTGGGTTGATCGAA  
AATGTATAAAACTGACTGCTTCTCGCCAGCCTCAGACAAGAAGAGTGAGC  
TGCTGGT

>Sequence 428

TCTACACGCGAACTTTGCACCTCTCTACATATCGTATGTAGTATGACTTC  
TAATTTACTTCATATCTGACTCTACCTCTATCATACAATATTCGTCTAA  
TAAGTTTGATACGATTATTAGGTGTGAGAGCATCATCATTACCACA  
TACAANTAAGGGGNNNGAGTTGATTTGATGCNCCCTTCGCGGAGGCGGC  
CGAGGTACAATTCTAATCTGCGGAAAGCACTTTCAGGCCAAATGCAG  
AAACGTCCCACATGCCACCAAGGAGCAAGCTTCAAAATGTTCACTTGGGG  
CATTAGGCAGAGTAATTCCAGGGATGTTTCTGAAGGCCCTTGATGATACCA  
TTATCCTCATTATAGATGATGCACGGGCCCCCTGCGCTGGATACCGCGACG  
GTTTCTCATTTTGCTTTTGACAGCTCTCATTGCTGAGAGGCATAGACCT  
TTTTGATATCATTCCAGGCTTTAAGGCTTCTTAAGGAGCAAAACAGCTTC  
CTTGGTCTTATTGTAGCCTTCAACTTTATCTTCAACTACCAAAGGAAGTT  
CAGGAACTTCTCAATACGATGACCTTTAGACATGACCAGTGCTGGTAGG  
GCTGAGGCAGCCAGGGCAGAACAGATGGCGTATCCTTTTTGGGTTCCCGC  
GTACCTGCCAG

>Sequence 429

Table 2

TGGGGCGTTGTTCCCTAACCGCGTGGCGGCCGAGGTACTTTTTTTTTTTTT  
TTTTTTTTGTGATCTCAACTGCTTTTAGCAAGTTGTGAATATACTTGGGC  
TTTCTGTCTTTCCCCAAAAGCAATTGCGGATTATTTTCCTCCTTTTTTTT  
CTGCATTTTCATCAAAATACTGTCATATTCATACACAGTAGCATCTTCTG  
CAAGGGCCTTCTGGATTTCAGTTTGGTCTGTTTCATGGCCTGCTTCTTA  
GCAGCTTCCCTCTGAAGGCTTTCACTCACAGAGGTCTCATCATCATCATC  
AGAATCATTCCTCAAAACACTGATGGTTTTTGCAAAACAGGGTGCAACTGCT  
GTGTTTTCTTTGGCAAAATAAGCCCATACTACCTGCCCCG

>Sequence 430

TTTTCCGTTGTTCCCTCATCCGCGTGGCGGCCGAGGTACAGACAAAACACTAC  
AGACTTAGTCTGGTGGACTGGACTAATTACTTGAAGGATTTAGATAGAGT  
ATTTGCACTGCTGAAGAGTCACTATGAGCAAAATAAAACAAAATAAGACTC  
AAACTGCTCAAAGTGACGGGTTCTTGGTTGTCTCTGCTGAGCACGCTGTG  
TCAATGGAGATGGCCTCTGCTGACCCAGATGAAGACCCAAGGCATAAGGT  
TGGGAAAACACCTCATTTGACCTTGCCAGCTGACCTTCAAACCCCTGCATT  
TGAACCGACCAACATTAAGTCCAGAGAGTAAACTTGAATGGAATAACGAC  
ATTCCAGAAGTTAATCATTTGAATTCTGAACACTGGAGAAAAACCGAAAA  
ATGGACGGGGCATGAAGAGACTAATCATCTGGAAACCGATTTCACTGGCG  
ATGGCATGACAGAGCTAGAGCTCGGGGCCAGCCCCAGGCTGCAGCCCAT  
CGCAGGCACCCGAAAGAAGCTTCCCCAGTATGGTGGTCTGGAAAGGACAT  
TTTTGAAGATCAACTATATCTTCTGTGCATTCCGATGGAATTTCACTTC  
ATCAGATGTTCCCATGGCACCGCAGAACCCGAAGTAATTCAGCATAA  
GCGGGAAGATN

>Sequence 431

GAAAGTTTTCGTATCGGGGGCGGCGAGACCAAACAACAGCCCTCCAACAA  
TGATGACCAGTGGAAAAACAATGGAGTCACCAAAACCTGGGACAGGCTCA  
TGCTCCAGGACAATTGCTGTGGCGTAAATGGTCCATCAGACTGGCAAAAA  
TACACATCTGCCTTCCGGACTGAGAATAATGATGCTGACTATCCCTGGCC  
TCGTCAATGCTGTGTTATGAACAATCTTCGAGCGGCCGCCCGGGCAGGAC  
GCGGGAGTTCAAGAAGCTGGTGGTCAAGGAGGAGGAGGTGGAGGTGGCAG  
TGGAGGAATTGCAGAAGCTGGAAGTGGTCAATGAACACTACATTCAGTAA  
CACCTCAGGAAAAAAAAGCTATAGAAAGGTTAAAGGCATTAGGATTTCT  
GAAGGACTTGTGATACAAGCGTATTTTGTGTTGAGAAGAATGAGAATTT  
GGCTGCCAATTTTCTTCTACAGCAGAACTTTGATGAAGATTGAAAGGGAC  
TTTTTTATATCTCACACTTCACACCAGTGCATTACACTAACTTGTTCCT  
GGATTGTCTGGGATGACTTGGGCTCATATCCACAATACTTGGTAAAGGTA  
GTAAATTGTTGGGGGTGGGGAGGGGGGGAACCTTGAT

>Sequence 432

GGCGTGTTTCGATTACCGCGGTGGCGGCCGAGGTACCACTGCTTCCCGG  
GACTCTGCGTTGTTACCACTGCTTCCCGGGACTCTGCGTTGTTACCACTG  
CTTACTGCGTTCCCAGCATTTCTTTTCTCTTCTCGTTTCTCTGTAGATTCC  
GGCTAATGGTTTCCCTGGCATTGACTTCGTGATGTGTAACCTGATTCTC  
TTCCTGAAGGGGGAAACGCATTCAGAGCATTTGTTTCGGGCTCATGTAGG  
AATAGATCTTTGACTGCCCGGTAAATCCCGCGTACCTGCCCCG

>Sequence 433

GGGATGTGTTTGAATNTGCNAGCTTCACCGGGNGGCGGCCGCCCGGGCAG  
GTACAAATCTACCTCCCCACCAAATGTCCTTAGAGGGCCAAAGATGGCCT  
TTGTTTCTTCATGATAACATCGCCTTCTTTTTTTTTTTTGGAGACCGGT  
TTCATTCTGTCAACCAGGCTGGAGTGCAGTTGTGCATTTCATGGCTCACCA  
CAGCTTGAACCCCCAGGCTCAGGTGATCCTCTCACCTCAGCCTCCCCAGT  
AGCTGGGACTACAGGGGCACACCATCAAGCCCCGGGTAAATTTTTGAAATT  
TTTATAGAGACAGGATTTTACCATGTTTCCAGGCTGGTCTTGAATTCCT  
GGGCTCTAGTGATTCTCTGCTTGGCCTCCCAAAGTGCTGGGATTACAG  
GCATGAGCCACCACCCCCACCTGTCTATTTTACAATTTTCTTTGAGCT  
CTTTTTTCCAGCAGTCATGAAGCTGGCAAAATGGCAGAACTGGAGCTAGAA  
ACTGCTGACTCCCTTTATCTTTTCCATAGCACCCCAAGCCTAAAACCAGA

Table 2

CTGGCACAAATGGTACCT

&gt;Sequence 434

TGGCTATAGAGACTTCCTCGCGGTGGCGGCCGAGGTACTTTTCTAAAAGC  
TCATCCACTCTATCATTTAGATATCCAATTTTCAGAAATGTGCTCAACATT  
GGCCACTCCATCTGCCATTCTTAAGTCTCCTTGGGAGTCTCCCAGAAGAA  
TTATGTTACTATTGTCTTTTAGTTGATTGAAATATTCTGTATTCCCTCAAG  
GCACCATCATGTTTGTAAATACATGAATTAGTTCTCCTTTAAATCCTTT  
GAGCACCCCTATGAAAAATATAAATCTTTTGAACAGGCTTTAAAAATTC  
TATTTGTTGGATTTTCATATTTTGGAGCTCTTAATTGATGTCACCTATTAT  
TTCATCATATTTGTAAATACATCTTTGATACTAGAGATCTCAAAGCACTT  
AAGTCCATCACATTACCATAGCTAAGAAGGGCTCGGAGAAGTAAATGAT  
TTTTTAGATACTATTTTAAATGGTAAAACAAAAGCCGGGCGCAGGGGCTC  
ACACCTGGTATCCCAGCACTTTGGGAGGCCAAAGAGGACAGATCACTCAG  
GGTCAGAGTTCGAGACCAGACTGGCCATATGGTGCCAACCCCTCACTA  
AAATAAAAAATTAGCCACGTTTGTGGCACGCACTGTAAT

&gt;Sequence 435

GGGATGATGTGACCCTGTCCGCGGTGGCGGCCGCCCGGGCAGGACGCGGG  
GGTTGCTCAAACCGAGTTCTGGAGAACGCCATCAGCTCGCTGCTTAAAT  
TAAACCACAGGTTCCATTATGGGTGCACTTGATGGGAAAGTCATCATCT  
GA

&gt;Sequence 436

TGGGGGGTTGTCAACACCGCGGGGCGGCCGAGGTACGCGGGGAACACCA  
CCCAAGTGTGGAGCAGCCAGCCAAGCACTGTCAGGAATCCTGGGGAGGCA  
GCTACCAACTGACTGCAGATCTGGAATAATAAGTGAGGGGTAGATCTGCC  
CATAGAGCTCACTTTAGACCGGCCTATACTCTACAAAGAATTGTGGTAG  
GATCTTTTACTCATCTTGCCACAATAGAATGGCCAATGCCCTTCTAAGA  
TGTTTGGTGAAAGTCTTGGAAGCACCATTTCCTCCCATCACCCCTGGGAA  
GAAATGAAGTCCCTAAGGCAACCACCAGGGCTAATGGAGGCTGAAATTC  
AACAAAACCTATTGGGGGGGAAAAACCCAAAAGGGCGGGCATATTTTT  
TTTCCCAAAAAGGGAGCACAAACCCAAATTAATCTTTAAACGGAGTGGG  
GGGGGCAAAATTTATGGCCAATGGCACAACCTGGGAAAAAAATCCTAA  
GGGCCCGGGTTATATCCCTATAACCCGTAATAACTCCAACCACCCGGTT  
AATTTTTAGAAACCTTAAAAAAGACACATTTTTTGGGAAAAAGCAGGGGG  
AACCTTTTTTCAAACCTAATCCCACCTTTGGCTTCCCTGGGCACAACAA  
TTATTGGTAAGGGGCCTTTGCAAAAATAAAGGGGAAGGACCCTCCCCGGC  
GGGCCCTA

&gt;Sequence 437

GTTACTAGTTATTTTATATTACTCGTAATATGCTTCGTATTCGTTTCT  
TTATCTTAGTTGTGTACGTTATACTCATGTATCAGTTTGTAATTTACTAA  
AATTGTATCTATCATATAGTTACTATTTTNTNTATCTTGCTGTTGTCGGT  
TGGCGGCCGATGTACCTTTTTAGAAGAGAAAAGAATCTTGAATTGTATAT  
ATTTATTTTGCTTTACAGAAAAAATGGTTTCGTAAATAATTTGCCTATT  
TTGGTTAACATAGCACATGGAGATAATCATCTGAAAGTTATAGGGCACTG  
CCACTGCTGAATCAGAGCATGCCCAATATTTGAGGTGGCTCTGATTTCTT  
GGCAGCTGAACCTCGGGTAGTCCAGTGGCCTAGCTGGTCTGCCCCG

&gt;Sequence 438

ATTTTCTAGTCTATAATCTTTCTGTTATTTTATATGTATTTTATCATTT  
ATGTAGTATGTATCTATATATTAATTGTTTAAATAGTATGTGATTACTCTA  
TTAGTCTATTAATTAATTGTTTCGAGTGTCTGCCGCCCGGGCAGGTACG  
CGGGGAGGTGCCGCTGTTGCTGCTCGTGTGAATCTAGAACCGTAGCCAG  
ACATGGGACTGGAGGACGAGCAAAAGATGCTTACCGAATCCGGAGATCCT  
GAGGAGGAGGAAGAGGAAGAGGAGGAATTAGTGGATCCCCTAACAACAGT  
GAGAGCAATGCGAGCAGTTGGAGAAATGTGTAAAGGCCCGGGAGCGGC  
TAGAGCTCTGTGATGAGCGTGATCCTCTCGATCACATACAGAAGAGGAT  
TGCACGGAGGAGCTCTTTGACTTCTTGATGCGAGGGACCATTGCGTGGC  
CCACAAACTCTTTAACAACCTTGAATAAATGTGTGGACTTAATTCACCCC



Table 2

AGTCTTCATCATTTGGGCATCAGAATATTTCTTATGGTTTTGGATGTAC  
CTG  
>Sequence 439  
CTATGTA CTACTCATCTCTANTCTGTATTGGACTACGTA CTGTTTCAT  
AAATCTAATCCATCTTCTCTCTGTTAGTACGTA CTGTTTCATTTGA  
GTAGTCATTTTCATGTTTATATTTTATATCATATCGTATCNTATCNCANCT  
TGTTTGTGTCAGTCCATCTGGTGGCGGCCGAGGTA CTGTTGATTTCACC  
TAGATTTGGAGAAGGTGAGGGAGGAAAGGCTGTCCTTTGATCCCATAC  
CATGCAGGGGCAAATGGCTGCCAGCATAACAAAATAAGAAGGAAAGAAAG  
AAAAGTGGGCCAGGCGCAGTGGCTCACTCCTGTAATCCTAGCACTTTGGG  
AGGCCGAGGTGGGCAGATTACTTGAGGTCAAGAGTTCAAAAACCAACCTGG  
CCATCATGGGTGAAACCCCGCCCCACCAAAAATACAAAAATAGTGGGGC  
GTGGTGGTGTATGCCTGTAATCCAGCTACTTGGGAGGCTGAGGCAGGAG  
AATCGCTTGAACCCAAGAGGCAGAGGGTGCAGTGAGCCGAGATCGTGCCA  
CTGCACTCCAACCTGTGCGACAGAGCAAGACTCTGGGAAAAAAAAAATAAA  
CATAAAAAAGGAAGGAAGGAAGGGGAAAGAAAAGTGGCCTCACAATGAT  
TTGCAACAACCTATTACAAAAAGAAATGAAAGATGGAAAGTCAAAGAAA  
GAAAGG  
>Sequence 440  
TGGTGTATGTGCCTGACCCGGGGCGGCCGAGGTACGCGGGATGTCTAAAT  
ATCTTGTA AAAAGTGTTAAATAAACAACCCAGTCAATTA AAAAATTTTG  
ACTGTTATTGAGAAAACTCCAATGAGGGAATAATAAGATCTATAAAGGT  
CTTAAGAAAAATATAATTTGAAAAAAACATGTGGCTGAGTGTGGTGGCTC  
ACGCCATAATCCAGCACTTTGGGTGGCCTAGGTGGGCAGATTGCTCGA  
GTCCAGGAGTTTAAGACCAGCCTGGGCAACATGGCAAAACCTGTCTCTA  
CAAAAAATTAGCCAGGTGTGGTGGGACACGCCTGTAGTCCAGCTACTCA  
GGAGGCTGAGGCAGGAGGATAGGTTGAGCCTGGAAGATCGAGGCTGCAGT  
AAGCTGTGATCACACCACTGCACCTTTAGACTGGGCAAAATAATGTTTAA  
TGATAAATGAGGTTCTGCCCCG  
>Sequence 441  
CGGATGTGANNATTGATATAGCGACTCCACCGCGGNGCGGCCGAGGTAC  
ATTGTAGCTTTGAACTCAGTGTTTAAAAATCAATCTGGTTACACACTCT  
ATCTTCTAGATCCCTTGAGACACTGTCTTCTTGAATAAGGGCCAGGTGA  
AATGGCATTTCAGCTGTGGAAGGATTTTCTCCAGGGAATTCTTGGTGACC  
TCACTCATGACTGCCCTCTGTGTCTCTGCTGTTCCGAAAAGCTGGTGACC  
AGGCTGATTTGTTCTTCAGAAGTCTTCTGTCTGCCCCCGGCTACTGTT  
CTGCAGGTTAAGGCAGGACTGGAACCTCCTCCACAGCTTGACATAGTTTT  
CAGATTCAACACTA ACTTCTCCGAGTTTAAGATGTGCCTGGGCAGCATAA  
AGCTGTGCTTCTTTGTTTCTTGCCTTTTAAAAATGATCTTTGCTAAATC  
CAGCATATCCCAGGCAAGCTCTAGGTTCCCAATCTCCTCCTCCTCATTTT  
CTTGAAGAGACTTGTTTTCAAGGACTGAATCATTGGCATTCTTTCAGTC  
TTATCATTTTCTTTATCATCCTCTTCCGAGCCTTCAGTTTCTTCAACCTC  
TTTCATCTGGTCTTCTCTCTCTTGGGGCTCTTCATTAGCAGCTATCTGAA  
CTTTGGCTTCAGGTGATTTCTCAGTAGCTCCCTGGGCTACCTTGTAATA  
ACCCCATCTCCAGCTGCCTCAAACTCTTTTACAGACAGCNTAGTCTCCTT  
CTGACTGGGAACCAAGCTTTGCCCTGACTTCTNCTTTAGATCCG  
>Sequence 442  
CGGCCATCCGCATCATATCTGCTGTGATCCAAAGNTTTTCAACGTCACTA  
ACTATGAGTCACGTGTTTGTATCGGCTTNTCGCNCNCAAAAANNNNAAGG  
TGTAAGTTTCGTATGCACTGCACCGGGGGCGGCCGCCCCGGGCACGTACTT  
TTGCTGCTGAGGAATGGAATCAAAAGAACGTAGTCTCCTGGTAACCACCT  
CAGATCTCTATTATTAGGCTAGATGTGGGGCGGGTGA CTCCCCAGCTTC  
TTGCTCTCGACCCTGCACTGTAAGTTGCCCTTCTATTAGCAGCCAAGGAA  
AAGGGAAACATGAGCTTATCCAGAACGGTGGCAGAGTCTCCTTGGCAATC  
AACCAACGTTGCTATGAAATATGCCTCACACTGTATAGCTCATTATAGGA  
CGTCAGGTTTGTGAAAAAAGTGGGCAAGACATGATTAATGAATCAGAAT

Table 2

CCTGTTTCATTGGTGACTTGGATAAAGACTTTTTAATTTTAAAAAAAAAAT  
ATTCATGGAATAGGGTCCT

>Sequence 443

TGCTGATAGNGTCCTCACCGCGGGGCGGCCGAGGTACATGAGAGACACTT  
TAAGCAGGCTCACAGGAATAGAGTGAGTGCGGACTCAGATTGTTTAAGCT  
ATCTCTGAACCCATTCTACTGCGTTTAACTATTTTATTGGTTTCTAACT  
ACTACCACAGACACGGATACCTCACAGGTTCCATTATTACTCACAGCGTT  
GTGGTCCGGGTTTCATCGCCATCCTGCTCCACGCTGTCATAATCCTCACGC  
ATCCGCGCTCGGGACCCCTCTTCTATAAGGGACATACACGAGATCACCGA  
AAACTCCTCCTTCTCCCATTTGTTCTATGAGGTGGGTGGGGACTCCAAA  
ACCCGTAGCTCCTGCCCTAC

>Sequence 444

TCGTTCTCATACTATTATAATTGTATTCTACTATCTTACATTATCGTATC  
GTCTTAATGATTCTAGTATCTATTGTTCTGAATATTTATTATCATAAACT  
AATATCANNANNNNTTGTGTTTATTCTGATCGGACTCCACCGCGGTGG  
CGGCCGAGGTACCCAGCCCCACCCAGGCAAACAGCTCCGACATGTTTCGT  
AAGTGAGACAAGCCAGTGCAAGTTTTTTTTTCTTTGTTTTTGGGCTT  
ACCTTCTTGCTTAATGGAATTGTTATGGCTAAGCACATAGAAGGCCAAAA  
AAGGAGTTTTCAAACCCAGCAAATCAAGTGCTTGGATTCTGAACTGCCA  
AAAGAAAACCTGCACTTCCCCTCTTAAGTAAAACGAAATGAGTTTCTTAGG  
TAAATGTATTTCATCAGCCCAGATAAAAAAAAAAACAGTTATGTGAGCGTT  
AGTCACTGCTCATTTCAGGAAGATCAAACAAAATACCAGCCCAGCCAGA  
CTCATATGTGTATATATATAAAGCAAAGAGCCCCGCCACAAAGCCA  
GCAGCTGGGTGAAATATCAGCTGTCCACGCCGTGGTATTCCAATTCGGGG  
AAATTACCTCCTTGGA AAAA ACTTGGA AAAA ATTTGTTGAAAAAACTT  
ATTTGATAAAAGTGTTTT

>Sequence 445

TGACGATNAGATCGGAGTCCTCACCGCGGTGGCGGCCGCCGGCAGGTA  
CTTTACTAAAATGACTGCATTCTTTGGATTCTTCAGTCTATGGTTCAAG  
TCACTAAAGATTCATTTTTGTGAGTCCTTATGAGAAACAGCAGTATGAA  
TCTTGACGGTTTCTGCCCCTCCTAATGGCAGAGCTCTCTGACTTGGGTGT  
ATGCTACCAGGCTGGGTTCAAGTGAGAAGTTCTGGTCAGTCTTCTGTGGG  
TTGAAGGTTCAATATCAATTCTGTTTCAAAGCCTTTGTGATGCTATTTGA  
ATCTTTGCTCGGTATATGCCACCCAGTGGTCACTGCTGGGACCTAGGTGGT  
GAGCTATCCCATAGTTTCACTTCAACGCTTTACTGCACTGTTTAGGGTC  
AGATACACATATATATACAACCTTTGGGTGAGCTCAGGAGTTTATAAGCTT  
TATGGGCTTGGTGTGTTTGAATTTATAAACAGGAGTTTATAGAACCTTTATGG  
GTTTGCTTCCTTTTTCTGCCAGTTCCTTGTAATTTCCAGCCCTTAAAC  
TCCTTTTTGGGTCTGTGTTCCAAAGCTGGTCTTAGTTACCCTACTTGTT  
GACCAGTTTCACAGTGTG

>Sequence 446

TGATGATGATTCCCTNATCCGGTGGCGGCCGAGGTACGCGGGGAGACACA  
ACTTCCTGGGCTTAGATATTTTCAAGATATCACAACCTAAACTCTTAAAAAT  
TTCTGAAGGCTGGACACCGTGGCTCACACCTATAATCCAGCACTTTGGG  
AGGCTGAGGCAGGCAGATTGACTGAGCTCAGGAGTTCAAAACCAGCCTGG  
GCAACATGGCGTAACCTCGTCTCTACAAAAAATGCAAAACATTTGCTGGGC  
TTGGTGATGTGTGCCTGCAGTCCCAGCTACTTGGGAGGCTGAGGCAGGAG  
AATCGCTAGAACCCATGAGGTGTAGGCTGCAGTGAGTCATGTTTGACCA  
CTGCAGTCCAGCCTGGGTGACAGTGTGTATTAGTTTGTGTTTTCATGCTGCT  
GATAAAGACATACCTGAAACTGGGAACAGAAAGAGGTCTAATTGGACTTA  
CAGTTCCACATGACTGGGGAGGCCTCAAAATCACGGTGAGAGGTGAAAGG  
CACTTTTTACATTGGCAACAAGAGAAAAATGAGGAATAAGCAAAAGCAGA  
AACCCCTGATAAGCCCATCAGAATCTATGAGACTTATTCACTATCACAGA  
ATAGCC

>Sequence 447

ATTATACTTACCTCTTAGATTTATTTATCTCAAGAATATATCGATTTCAT

Table 2

CTTTTATACTTANTTGTACATATTTTTTAATTATATATTCTATTTATTAT  
TATACAAACNATCTAATGCGTTGTATCTTCTCCGGTGGCGGACGAGGTAC  
GTTTTGTGACAGGCAATAAAATTTTAAGAATTCCTAAGTCTAAGGGACTT  
GCTCCTGATCTTCTGAAGATCTCTACCATTTAATTAAGAAAGCAGTTGC  
TGGTCGAAAGCATCTTGAGAGGAACAGAAAGGATAAGGATGCTAAATTCC  
GTCTGATTCTAATAGAGAGCCGGGTTCAACGTTTGGCTCGATATTATAAG  
ACCAAGCGAGTCTCCTCCCAATTGGAAATATGAATCATCTACAGCCTC  
TGCCCTGGTCGCATAAAATTTGTC

&gt;Sequence 448

TGGGGATGTGCCTCTCTGTGGCGGTGGCGGCCGAGGTACTTTTTTTTTT  
TTTTTTTTTGTAGTGTCTTCTGATGTCTTTCTAACAAATCTTGCCTG  
CCCAAAAGTCTCAAAACATTCTCACGTTTCTAGATTTTAGCTTTAGCT  
TTTGTGTTTGGGACTATGATCCATATTTAGTGAATTTATTTTGGGGGG  
CAGAGTCCATGTTGCCCAAACCTGGTCTGGAACCACACCCAGCTAATT  
TTTGTGAATTGCGGGTACCAGCACACCGGCGCGCTCCTGGACTGCGCCTT  
CTACGATCCAACGCATGCCTGGAGTGGAGGACTAGATCATCAATTGAAAA  
TGCATGATTTGAACACTGATCAAGAAAATCTTGTGGGACCCATGATGCC  
CCTATCAGATGTGTTGAATACTGTCCAGAAGTGAATATGATGGTCACTGG  
AAGTTGGGATCAGACAGTTAACTGTGGGATCCCAGAACTCCTTGTAATG  
CTGGGACCTTCTCTCAGCCTGAAAAGGTATATACCCTCTCAGTGTCTGGA  
GACCGGCTGATTGTGGGAACAGCAAGCCCGATAGTGTGGTGTGGGACTT  
ACGGAACATGTGTTACGTGCAACAGCGCACGGAGN

&gt;Sequence 449

GANTTGTGCCTCTCGCGCGCGGGGCGGCCGGGTACAAAAAGCAGGGGCCC  
AGCCCCAGCTGTTGGCTACATGAGTATTTAGAGGAAGTAAGGTAGCAGGC  
AGTCCAGCCCTGATGTGGAGACACATGGGATTTTGGAAATCAGCTTCTGG  
AGGAATGCATGTACAGGCGGGACTTTTTAGAGAGTGGTGCAGCGCCAG  
ACATTTTGCACATAAGGCACCAACAGCCCAGGACTGCCGAGACTCTGGC  
CGCCCGAAGGAGCCTGCTTTGGTACCTGCCCGGGCGGCCGTCGATCTCCT  
TGTGTTCAAGCAACTTCTTGGCGTAGTCTGAAGCGCCTTATCTCTAGGG  
TCCGCCATGATGAGAACCCCGGTACCTGCCCG

&gt;Sequence 450

TGGGATTTGCCCCCTCCGGGGGCGGCCGAGGTACTCCCTACGGCACTAGTC  
TACAGGGGGAAGGACGCTCTGTGCTGGCAGCGGTGGCTCACATGGCCTGT  
CTGCACTGTAACCACAGGCTGGGATGTAGCCAGGACTTGGTCTCCTTCCC  
GCGTCAAGAGATAGAAAGACCAGTCTTGTGAAAGACAAGTCTGAATGCT  
CCACTTTTTCAATTCTCTCTCCATTCTTCAGTAAGTCAACTTCAATGTCTG  
GATGGATGAAACCCAGACACATAGCAA

&gt;Sequence 451

TGGCACCGTGCGTCTCCGTGGTTCGAGCGGCCCGCCGCGCAGGACAAATGAG  
TTTAGAAAATGTTGTATAAGGCTGATCTGGACCCAACTAAACCAACGTTA  
ATCCTCTTCAAAATCTAATTTAATATAGGGAATAAGATTATTGAAAAAAA  
TTTTTTTCTGATTTTCTTTTCTTGAAGTTTTTTTGTAGAAACCATGG  
TAAAAAGGGAAAAAGAAACCTTTGACTGGCGGGGGCAGGGGGAATACAAAA  
AAAAAATCCCTTGATTTTTTAAATATACTTGAATATCAAACCTCAGAAAGA  
GTTATTTTTGTGAAAGAGGCAAAATTGGTCTTGAGCTGCTTCAGTCTATG  
TCTGAAGGTTTTACTGAAATTATGGTCCAGTTTTAGGAGAAAAATTCACA  
GAAAAGTCAGATTGTAGATTTTGAGAAGGAACTCTGAGGTGGTGATTTT  
CTCCAAGGTCAATGGTTATGAAGCTCAATGAGGGCCTGAATTGCTTCTTCC  
ACAATCCCAATTGAATGAGCGCCATTTTGGGATCTTTCTGAAAGAATTT  
AAAAGCCTTCACTGAACATCCAGCTTCTATGAAAAGGTTCTTCAGATCAT  
CCACTGTAACAGAAGGGGGAATGTTGGAAAGATCAGAGTGGCT

&gt;Sequence 452

TGGTTATGGACCTCACCGCGTGGCGGCCGCTAATGTTAGAAGTTAAGTTG  
GAACCTATATTGTAGAGGAACAAAAGCCAATCAGTGTCTTTTGTCTTT  
TTTTACATAAACTTTTACTACAAAATTAATATATGGATTTTGAATTTCC

Table 2

AGTCAAACCAAATTGTAAAACTGTTTCATTTGGTTCTATATTATGTATAC  
ATAATTTATCTATTATATATTTACATTAATAATATATGCATATATAATGGA  
TTAATTTCTTTTGGCACCCCATATCTAGAAGTCTCTTCATAAAATTAA  
TAAATAATCTAGGGCCAGCATTATGTTTGCTAGACCTGGATTTGGCTCAA  
TACTTAAAGTTAAAGTTTCTGTCTTTTTTCTTGGACTTGAAACTGCCTA  
GAGCGTCAGTCTCTCTGTTATTTTTTCTATTTTCTTTTCCCCCATCAG  
TCTTTTAGCCACTTGAAGCCAAAATTCTTAGTTTCTGTCTAGTCGATAA  
GAGTAAAAGGGGAAGGAGGAAAAGGGTCCAGTGCCACTGGACAGTCACCT  
CTCTCTGGGAAGGACCCATTACAAGACAATGAGTCCCTCTACTTTTTTAT  
ATTTCTATTTACATAAAATCTTTA

>Sequence 453

CTTTATCCCTTATATACATAAATATTATTATTGTTAACACAACCTGTTATA  
TATAACATTATAATATAGTATACTCTATTTTGAGCACAAAGATGATCTCTC  
ATCCANNNAAGGGTGTGTTAGATTCCATTCCCCGCGGCGGC

>Sequence 454

ACCACGCCTCCGCCACGTGTTGTCAATTATCTCTGATCGCGATCTACC  
CTCTATCTACGTATCGACATCGGGCAGCATTCTATAGGAGTTGGTATCT  
ATTATACTANTANATANAAGGGCCGGCGTCACGCTCACTATAGCCGAAGG  
NGGACGNCCGGCCAGGNACGCGGGGACCTTTACGGGGCGGGGGAGCTGA  
GGCTCCTGCCGACATCTCTGATCCTTGACCCCTGGCAGGAAGCTGGTCGC  
GGGCACTATAACGGGAGGCCTCCACATATTCCAGAAAAGAAACCACTCTG  
CAGTGCCAGACTGGAAGAAGTAACGGTCACTCTGAAAACAGGGGGGAGA  
GCTGCCTCCCTTTGAACCTCTCCCAGGACCAACTCTAACCCAGGGAGGGG  
AACTTGGTCGGTGCAGCGGTGGCTTGGAGACAGAATCATCTAATGGAAA  
AGATACACTAGAAGGCGCTGGGGATACATCAGAGGAGAGGGATACTCAG  
CGGGCTCCGTGGATGAAGAGAATGGCCGACAGTTGGGCGAGGTAGAGCTG  
CAATGTGGGAATGGTACCT

>Sequence 455

CCACCCCTTATACCAGTTTACATAATGTTGTTATTTTGGTTTTCTCCTA  
CATAAGTAGATCTTCTCATATTCTTCTCAATCTCTATATTCTACCTGTAA  
TATCTAAATCNTTGTTCGTTAGCTGGTGGCGCACCCGCGGTGGCGGGCGC  
CCGGGCAGGTACGCGGGGAGGATCTCTGTCTTTTGTTCCTCACCTGTCT  
GCCTGTCTCCTCTCCTTTCTGCTGGGGGGACTGTCCAGAAGACATCAT  
CGTCCAGTTCCCTCTGCATTTGAACAGCTGATCCCCACCCCTCAATACCG  
TTTAGAGCAGAAGCCAGCAATAACTAAACGGTCAGGGACAGATAGAACT  
ATTTTTCGGCTTCATGGGCCACACAGCCTCATTGTAGCTTCTCAAACTCTGC  
TGTTGTAGCAAGAAAGAAGCCATATACCCTGTGTAAACAAATGAATATGG  
CTGTGTGCCAATAAAACTATTACAAACATAAAGAGTGGGCTGGATATGA  
CTCAGATACTGTTGTTTGACAACCCCTGATCTAGAGTAAAAATTCCAAAC  
TCTATAGCCTCCAGCCTGGGAAACAGAGCGAGACTTCGTCTTAAAAAAA  
TTAATAAATATATTAATACATATGAAAAAATATATTTCGAGCTGGGCGTT  
GTGGTCTACTCTTGCACTTCCAACACTTTGGAGGCTTAGAAGGCAATCACT  
TTAGTTAGGGGACAGAACAGCCTGGTCACATGGTGAAACC

>Sequence 456

AATCCTATTCTCTCATTGCTGGTTCATAATATAATATTATATATATGTCT  
CTCTCATTCAATTGTAATTTATATTATAGTAGTATGTAATTGCTGGTAATA  
TCTACATAAATNTTCNNTNTAATAAGTGCACTTTGGCACTTTGGAAGCGC  
TTCTCCGGGAGGCGGCCGAGGTACAACATGACATTTTAAACCAATCCAAT  
CTAAAAATGTGCCAGAATCCACCTGTGGCCCGAATCGTGTTTGGTTCCTC  
TTTCTACTCCACTGCAGATGACCAAACCTGTCCCGCTGCCACTTTCCTCA  
CTGATATTGGGAGGAGGGCAAGGCCAGCCGAAGTTCCACTAAAAATGCC  
CCAGGAGAAATAGGCACCGGCTGGCTTGCCAAAGGGTTTGGGTTTTATTGC  
TTTCTGTTTTTCTTTTCCCGACAGCACAAAGAAGTAAGGGCAGTTATTG  
GACAGGTGTTATTTAAACATTCTATTGTAAATGAATGTGTTGTTTGGTTC  
TACTGCATTGTGGAGCATGCGGGGAAGAGAAGTACCAGGTAATGAAA  
TGGAGCCCTTTCCTGGAACTAACCAGTCCTTGATGTTGTGTGACTAAAGT

Table 2

AAAGATGATAAACCCCCATTTGCTGGGGGTGGTACTTTACACTTGGGTTG  
GATTGGGAAAGCTTTCCATACCCTTGGCCATTCCCTTTTTTCTTTTTTT  
CAACCCCATTTTTTAGGAAGGGATTGTTAACAAAAACCTTCTTTTAA  
CCTTTTTTT

>Sequence 457

TGCCGTTTGAGTCGACTCAGGGGGCGGACGTATATTACTGTGCGAGAGGT  
AAAGGATATAGTGGCTACGATTACGGCCTCTCT

>Sequence 458

GGAGAGTTGANNCANNTTTGGGAAGCGCTCCCCGCGGTGGCGGCCGCCCG  
GGCAGGTACAGACAAAACACTACAGACTTAGTCTGGTGGACTGGACTAATTA  
CTTGAAGGATTTAGATAGAGTATTTGCACTGCTGAAGAGTCACTATGAGC  
AAAATAAAACAAATAAGACTCAAACCTGCTCAAAGTGACGGGTTCTTGTT  
GTCTCTGCTGAGCACGCTGTGTCAATGGAGATGGCCTCTGCTGACTCAGA  
TGAAGACCCAAGGCATAAGGTTGGGAAAACACCTCATTTGACCTTGCCAG  
CTGACCTTCAAACCTGCATTTGAACCGACCAACATTAAGTCCAGAGAGT  
AAACTTGAATGGAATAACGACATTCCAGAAGTTAATCATTTGAATTCTGA  
ACACTGGAGAAAAACCGAAAAATGGACGGGGCATGAAGAGACTAATCATC  
TGGAAACCGATTTCAGTGGCGATGGCATGACAGAGCTAGAGCTCGGGCCC  
AGCCCCAAGCTGCAGCCCATTCACAGCACCCGAAGAACTTCCCCAGATGG  
TGGGTCTGGAAGGACATTTTGAAGATGTTGCCAAGGGGAGAAGATCACGA  
AAGAAGAGTACAGCCCTAGAGGCAAACCTCTTTCAATCTCTTGATN

>Sequence 459

GGGGATAGTCNGAATCACGTGGCGGCCCGCCGGGCAGGTACGCGGGTAGT  
GAGCTGGTTAGTGAAGGCTTTGTAGCTGAGCAGTTTCTAAATAACACAGC  
CACTCAACTGACATACCATGGATTATGTGAACATACTTCAACGGTTCAGG  
AAGGAGAAGCTTTGTGTGTTCTTTCCGAATAATCATTTTAGCACCATGACC  
AAATACAAGGGTCAACTGTATTTGTTGGTAACGGACCGGGGTTTCTTAC  
TGAAGAGAAAGTTGTTTGGGAAAGCCTACACAACGTAGATGGTGATGGAA  
ATTTCTGTGACTCAGAAATTTCACTCTCGACCTCCTTCAGATCCTGAACT  
GTATACAAAGGACAACAAGATCAGATAGATCAGGATTATCTTATGGCATT  
ATCTCTACAACAAGAAGACAGCAGAGCCAAGAGATCAATTGGGAACAAATCC  
CGGAAGGAATCAGTGATTTGGAAGTACGAAAGAACTCCAAGAGGAAGAG  
GACAGACCGGCTTCTAATACTATCAGGAACAGGAACAAGCAGCAGCTGCT  
GCTGCTGCTGCTTCTACACAAGCTCAGCAGGGCCAGCCAGCACAAAGCCTC  
TTCATCAAGTGGAG

>Sequence 460

TAGACTTCAGGGAAACAACACGTCCTGAAAGAAACATGATTCCCCTCAAG  
CCACAAAGGATTTTCTCATCAAGTGTTTTCACCTCTGCATTAGATTTGGA  
CACAAGAAGAGGAGAGCATTTACTCAGGTAAAAATAGTTCTCTTAGTCTC  
TTCTCTAGTTACTAATTTTAAATTTAAAAATACAATTAAGTATCTAGC  
TGATAAAAGTCACAGACAGAAATAAGCTAAGTTCTCTCTTCTTTAGGGA  
ACGCTGGTGGCAATTCACCATATAAACTGGATGGAAGAATTCTCCAGGG  
ACAT

>Sequence 461

CTCTTACCCTCGTCTCACTGTAAGATAAACATTTATCTTGCTCACATGT  
ATATTTTATACTCTATCTATTGTCTGTAAGTCTCACAAATGCACTGAAGA  
TTATTGTAGTAATAGTGATTATGTTTCTCTGTATAATTTGGGGGTGATT  
GTATCAGTTGCCGTCGTCCGGCAGGAACGCGGGGGCTGTCTACCTGGAGT  
TCTAGCAAGTCGGCCAGGATGTCTAAGGCTGAGTTTGAGAAAGCTGCAGA  
GGAGGTTAGGCACCTTAAGACCAAGCCATCGGATGAGGAGATGCTGTTCA  
TCTATGGCCACTACAAACAAGCAACTGTGGGCGACATAAAAAACAGGAACG  
GCCCCGGATGTTGGACTTCACGGGCAAGGCCAAGTTGGATGCCTGGAATG  
AGCTGAAAGGGACTTCCAAGGAAAGATGCCATGAAAGCTTACATCAACAA  
AGTAGAAGAGCTAAAGAAAAAATACGGGATATGAGAGACTGGATTGGTT  
ACTGTGCCATGTGTTTATCCTAAACTGAGACAAATGCCTTGTCTTTTCTA  
ATACCGGGGATGGTGGGAATTCGGGAAAATAACCAGTTAAACCAGCTACT

Table 2

CAAGGCTGCTTACCATACGGGTCTAACAGATTAGGGGCTAAAAACGATTA  
CTGACTTTCCTTGTGTAGTTTTATCTGAAATCAATAAAAGGGGATTGGT  
ACCATAAAATTCTTCTTATTCTTGTCCCTTGGCCGTTTAA

>Sequence 462

GAGGTAAATCNGATGCCTCCACCGCGGTGGCGGCCGAGGTACGCGGGATA  
TTGTTCCTGATTTGCCTGATGTGTGGACGGATCACCAAGCGAGTGACACG  
AGAGCTCAAGGACAGGCTACAATACAGGTCAGAGACAATGGCTTATAAAG  
GTTTAGTGTGGTCTCAGGATGTGACAGGCAGTCCAGCCTGACCTTCTGC  
ACACTCCAGACAACTTCCCAGACAAGCTCCTTTGTGCCTCTACGTGGAG  
AGGGCGTGGAAAGTTATCACATTAAGATGGAGGATTTAAAAAATAAAA  
AAAAAAAAAAAAAAAAAAGTACCTGCCCG

>Sequence 463

AATTACTCTACAGTAAGGACTGTAAGTACTAGAAATTATATGTATGTACA  
GATACTACACTATNGATTTATACTAACTTTATATTAATCAATTTACGAAT  
TAGATTATGACATACTTATGGAGCTAATTTATTCCTTCATTACTAGTTTA  
GTTGGTTTGATTTCGAGTCNTCTATCGCGGTGGC

>Sequence 464

TGCACGATGATTCTGAAGCCCTCACCGCGGTGGCGGCCGCCCGGGCAGGTA  
CTTTTTTTTTTTTTTTTTTTTTTGGTTTTTTTTTTTTTTTTTTTTTTTT  
TTTTTTTTTTTTTTAAACCGCTGCCACCACCATGAAAGAGGGGCCACCAC  
ATTTTTATTGCATACTCAGGGGAATAACTTATTATACAATGAACACTCCT  
CCATTAGGAGACCATGCCCACTTACAGAAATGCAGCCGTAAATGCGGTAAA  
TCTATTTACAGAGGTTGGGGTGCAAGATGAGAGAAGTATCACCCCCAGGA  
ATTTGAAGTGAGAATGATCTACAAATTCTCCTGACAAGGAGCAACCGGGC  
TTGTGCTAGTGAGGGCTGAAAAAATTCCTGGCAAAACGTAGGGGGAGATT  
AAATCTCGGAATTGACAGCAAGTTTGGGGACAGTGCAAGAAGAGAGGGGT  
GACCTGTGAAATGGGGCTGGGGAACCTTCTTAGGCCCAAGGGGGGGCAGC  
ACTTGAGAGATGAGTTAAATTTAGGGGTGATCTTTAACCCTTTCCACCCC  
AACCAAAAAGGTTTGGGAACCGGGGTCCCACAAAGTTGGTTTCCAAGGA  
AAATAAGG

>Sequence 465

TGAGGTATTAATCCAAACCGNGTGGCGGCCGAACGCAGAGAAGGTAGAAG  
ATAGCACCATGCCGATTTCGTGCAACTGTGAATTCTACCCGGGAACTCCT  
CCCAAAAGCAAGCTTGCTGAAGGGGAGGAAGAAAAGCCAGAACCAGACAT  
AAGTTCAGAGGAATCTGTCTCCACTGTAGAAGAACAAGAGAATGAACTC  
CACCTGCTACTTCGAGTGAGGCAGAGCAGCCAAAGGGGGAACCTGAGAAT  
GAAGAGAAGGAAGAAAATAAG

>Sequence 466

TGGGCTGATGGCTTACCGCGGGGCGGCCGAGGTACGCGGGGAGGTCCGT  
GCGCGCTTCTCCCGAGGTGGAACGGGCGGCAGTCAAGCGCCGGCGTTCTC  
TGCCGTCACCCTTTCCTGC

>Sequence 467

GGGGTGATGACTCATGACTATCCCGCGGTGGCGGCCGCCCGGGCAGGTAC  
TTTTTTTTTTTTTTTTTTTTTTTTTGGAGACAGAGTCTTGCTCCATCACCC  
ATGCTAGAGTGCAAGTGAGTGATCTCGGCTCACTGCAACTCCGCCTTCT  
GGGTTCAAGCTATTCTCCTGCCTCAGCCTTCCAAGTAACTGGGATTACAG  
GCACATGCCACCACGCCAACTAATTTTGTATTTTAAATAGAGACAGGGT  
TTGACCATGTTAGCCAGGCTGGTCTTGAACCTCCATCAGGTGATCTGCCC  
TCTCAGCCTCCCAAGTGCTGAGATTACAGGCATGAGCCACCGCGCCTGG  
CTGATTGTGTTCCCTTCTCACAGATTTTGTCTGTTTTGTCTTCTGA  
ACACTCAGCTGGACTGCATTTCCAGCTTCCCTTGCAGTTAAGTCACAAG  
TAGCGCTGTGACTGGGTTCTGCCCGGTAGAAGGTAAGCAGAAGTGATGTG  
TATCACTTCTATGTGTGGCCTCCCAAAACCTCTAAAGGTTATGTTCCCT  
CTTTTTCCCATCTATGGCCTGNAAAGTGAAATATTATGGAGCCTTTTGCT  
GAGACACCCCGGTACCTCGGCCGCTCTAAACTA

>Sequence 468

Table 2

TCGGTGTGCTGTGCTCATCTGTCTTCCAAAGGAGGAACAGATCGGCAAGT  
GCATCTGACGCGTGGCCGACAAATGCTGTGCGAAGAAAGAAATAAAAAACC  
TGAAACATGAGCGAGAGTGATCGAAACGTGTGGAATGCCTTCTTAAAGT  
TTATAAAAGTAAATCAAATTACATTTTTTTTTTCAAAAAAATAATTTAA  
AACTAAATGTACCTTAA

>Sequence 469

GCGATTGGAGCTCCACGCGGTGGCGGTGCGAAGGAGAATGGTATCACTCA  
GGCTCTCAGAGTGACACTGAAGCAAGACACTCATGGGGTAGGACATGACC  
CTGCCAAGGAGTTCACAAACCACTGGTGGAATGAGCTCTTCAACAAGACT  
GCGGCCAACTTGGTAGTGGAAGTGGGCAGGATGGAGTACCTTCAGGATT  
GGCCTGTTATCTTCTTTAGAACTAAGTTCATCTTAAAAATTTAAGAAGGT  
GGACATTTCAACACCATCAAGTGCATTTAGGTGACATGTTTAAGTTAACT  
TGACTTCCTTGAATGACCTAGTTAGTAACTAGTCACTAGTAATTCGGTC  
ACCAAGCAAATCAAGCCTGCAAGAAAGGAAGCCAATATTCAAAATGCCAT  
GTTACCATCTAAACCC

>Sequence 470

TTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTGATTTTTATTGTCTACCTC  
TCTGGACTTGGTCCCAGCATCCGGACCAAAACCATCAGTGCCACAGCCAC  
GACAGAAGCCGAACCGGAAGTTGACAACCTTCTGGTTTCAGATGCCACCC  
CAGACGGTTTCCGTCTGTCCTGGACAGCTGATGAAGGGGTCTTCGACAAT  
TTTGTCTCTCAAAATCAGAGATACAAAAAGCAGTCTGAGCCACTGGAAAT  
AACCCTACTTGCCCCGAACGTACCTGCCCCG

>Sequence 471

TTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTT  
TGGGAAGACACAAAGATTTCAGACCACAGCCTACAGGGAGAGAGGATTCT  
GAGGATGGTGGTGCATGTGAGTCCACGCAGGCCTCCTGGGCATAGGATG  
GAGCAATTCTATCTCACCTCAGGCCTAGCACAAAGGGCTTCAGTAAACCA  
CTGGAGTTTCCCTTCATTAGGATTCCATCCCAGGATATCCAGAGGACAAGA  
GGCTGGCCAACTGCAGGATTAGCCTATGCTCCCGTGTGGATATAGGCTA  
CACGCAAGAGAAAGCTTGGGTGGGATCTCCTGATCCCGCTACCTGCCCCG

>Sequence 472

ACTACCTAATTATATTCCTAGTTTATTTAAGTTATATTGTTACATATT  
AACAAATTAATGATATCTGCTGACTAAATATCTACTACACTTCTCATACAC  
TTCAACACTCCTATATATTATATTGTATCTAGTGTATATTTTATNNAANN  
TCAGTTNGGTATGCTGATCGCGTTGCGGGCGNCCGGGCAGGTACTATGGG  
TGTAAGTTACTATTACAGTTAATTCGTCCTTTGTGTGCGCTGATAAATG  
CAGTGAGGATTGGAGCACTGTCCACTGAGTCTCTGTGCAACAACCTTATCG  
GTGTGGCAGGGGTTTCCGGTGTCTGGCTCTGATCTTGGTCGCTGGATAGT  
CGTCTGTGTTTTTTCGGTGCCCAAGGCGACGGCTTTGGTATGGGTTCGTG  
GCGGGGTGGTTGGCCAAGTGCTGTCTAATAATTCAGGAGAGGATACTTT  
GTTGCTGCTGCAGGATCAGCCATGGTAGATTATGGTTTTTGAGAACCCAGA  
TGGGGCACACAATTTCTAGTGTGCCCATTTAACAGGGTCTTTCAAAGTAC  
CATG

>Sequence 473

TTTATATAACTTATTCGTTCAATCTATTTATTATATCTCTCTTATATACT  
CATTGTCTACTTTAATATCATACTTGTATAATTATTCATACATATTATA  
ACAANACCGATGCATGTTTTCATNTANTTANGCAGCACACCACCGCGGTGG  
CGGACGAGGTACAAAAATAATTATAATGTATTAACCTACTGCTCTT  
TTATAGGGGAAAAAATAACCTTTTTTATTTTAAAGTTATAAGGTGGGT  
ACCTTTTAGTTGCTTGGATGACAGGGAATTAGCCTACCCCATTTTGGTCT  
GGAACAGAAGACTTTCAAATTTAATATGGCCCAAGTGTCTTCTACTTAA  
GTGCAAGATCATGCTATGTCAAGTACCCAAGCTGGAATACCGTGACACGA  
TCGTGGCTCGCTACAGCCTCCATGTCCCAGGCTCGAGCAGTTCTCCACC  
TCAACCTTCCGAGTAGCCGGAACCACAGAACCACAGTCTTCTCATTTTGA  
AAAGACATGCTTTTTCTTAAAGCAACAAAGGTGGTAGAGGAAATTTCTTA  
AACTTTCTCAACGAGTCATGTAACGTTACACTGGCCTTCATAAAGCACCG

Table 2

TTTAAGAAAGGCCTTTTTTTCATCTTTTATACTATATTCTGTTCTTGGCC  
TGGGGGGGCCTTTTTAAAACTAGTGGATCCCCCGGGTGTGGGAATCGTT  
TTCAGCTTTATTTTACCTTCCACCTTAAGGGGGTGCCCGGCCCACTTT  
GTTCCCTT

>Sequence 474

TGCAGATGGAGCNTNTACCGGGGGCGGCCGCCCGGGCAGGTACGCGGGGG  
AGCTGAGCCGGTGGGTGAGCGGGCGGCCACGGCATCCTGTGCTGTGGGGGC  
TACGAGGAAAGATCTAAATTATCATGGACCTGCGACAGTTTCTTATGTGCC  
TGTCCCTGTGCACAGCCTTTGCCTTGAGCAAACCCACAGAAAAGAAGGAC  
CGTGTACTTCTAAAATTGCACTTTATGTTTTGTAGGCTTGGAGCTTCTTG  
ATTATGGGTTTTTTCGTTACAAAATTCAACAACAGAATCAATACTTTGCA  
TAAACATTATGGATGCTTTTTCTGTTTGTACCT

>Sequence 475

GTACGATTGAGCCNTTTTGAAGCCGCTCTCCCGGGTGGCGACAGGGTT  
ACATTGGTAAGGGTGACAGTTAGAAGGGGAAGTCCTTTTAGTGAAATAGA  
TGAGAGGTTTTAGA

>Sequence 476

TCTCTCTACTCTCCCACTTTTCACTCTATTGTGACTAACACTCTTTTCTT  
TCATCTCTTAACGATCTCGTTTACTCTATTCTATATATATGATTATTCAT  
TCATCTTTNATCNCTTGGAGTGGANCTTTGGGAGGCCTNTCCGCGGNGGC  
TACACGCTAGGAACCTTGCAGCTTACAGTGACAGAGCTCCCATTCACGAG  
GCCACCACTCATCTCGATTCTGGATCTCTAGGGAATGAGTAGAGCTCCA  
CCTGGATTCCCTTTTCCAGTTTCTTATGTCCACAAGTCACTGTGCACAGA  
TAAGAGTGTTCGTTCTCAAACTCACAGGGCTCAGGGTCAGCGTGGAATT  
GGTCCCTTCACTCCTCACCTTCCCGCTCAGAGGGCTGTCTATCTGGGTT  
CTCCAGGAGAAAAGATGGGGATTACAGCCCATGACACCTACATGTCAACA  
TGACTGAGTCTCCAATCTGAGCAGCAATCCGGGGTCCAGGGGAGATCTCA  
ACAGTAAATGGTTTCTCTTGGACAAATTAATCCACCTCTTTTCTGGTTT  
TCCCAATCAAATTAACCTTCTTACACCACATTAATTCAGAAATCTT  
CCATCCTTATAACAATTAAGTGGAGAGTTGGATTTCCAGAAAGGTGCTT  
GAAATTCCTATAATCTAAATCTTACTCCAAAAAATTTTGGGAGCTGGAG  
ACCTTTGCTTGGACCAGGCAATGGTACGGAGCCCCCTTTTGGAAAGTTGG  
GGAGGGATCACAGAAATAACN

>Sequence 477

TCTCTCTCTCGTTTTTCTTTCGTCTTATCTTTAGTCTTCTTCTTCCA  
CTTGCCTTCTTTTTTTTTTTTTTTTTTGTTTTTAGTTATACATTATNTN  
NTTNTTGTCTTTGACGACTCCCCGCGGCGGCGGCCCGCCCGGGCAGGTACT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTGGCAAAAATATTTATTAATGAT  
TTTTTAAGTTTGAACCTTATTTGGAAGGAGTCCCTCTAATTCACACTTC  
ATCCTAGATAAATGGGTAAGAACCACATATGGAATATAAAGCATTGATTT  
TTAAAAAACCATAGTAGCACAGTGAAAGAAATGCAATTCTCCAGGGTC  
TTAGAGAATTCAAAGGGGCATCTTAGGTGGTCTAAGAAACCAATTACAGT  
CTCATGGTTTTCTTTTGGTTCAAGATTAGAAGAGTCAGGTTACCACTAC  
CTGTTTTTAGAGGTAGAATATGAACCTTCTACTAGTCCACAGTTTACTGG  
TCAGGTGGCCCCAACAGGCTTTTATCTTAGCCCCATCTGCCTTTAGGGTG  
GCCAGATGATCTCTATGTCCCAAGCAGCAAGGCTTTCTGCTGATCTCTAC  
TTTAGATCCATGAACCGTTTTTC

>Sequence 478

GTACGATTANCCNAATATGAGCCTCCTACCGCGGTGGCGGCCGAGGTACC  
TGCATCAGGGATAAGAACCCATTCCCCTCCCTTGTTCGGGTGTGCTCTCG  
CCATTGCACCATCCATGAGACGCACTCTGTATAGAAGTAAAAATTGCCTT  
GCTGAGAAAAAAAAAAAAAAAAAAAAAAAAAGTACCTGCCCG

>Sequence 479

TGCCGATGATCGGAAGCCTNACCGCGGTGGCGGCCGAGGTACGCGGGGGG  
TGTGGCTGCATCTCAGCTGGCCGCCATCAGTGTAATAGAGCTTAAAGT  
CATGGTTTGGCTGCATAAAAAATTTCTAACTTGGGTTGAATATTTGTAGC



Table 2

GAAGTATCTGTTTTTCATTTTTTTCACGTTATAAAATAAAAAATACTATGCTG  
GCCGGGCGCGGTGGCTCACACCTGTAATCCCAGCACTTTGGGAGGCCAAT  
GTGGGTGGATCATGAGGTCAGGAGTTCAAGACCAGCCTAGCCAAGATGGT  
GAAACCCCGTCTCTAGTAAAGATAAACAAAAAATTAGCTGGGCTTGATGG  
CATGCGCCTGTAATCCCAGCTACTCGGGAGGGTGAGGCAGGAGAATCGCT  
TAAACCCAGGCGGGAGAAGGTTGTAGTGAGCCAAGAATGGGCCTATTGTA  
CTTTCAGCTTATCAATAGAAGGGAGACTGGCACCCCTTTAAATTACCTTT  
CAATAAAATTGGTCCTTGCCCGGGCGGGCGCTTTTAAAACTAAGGGAAACCC  
CCCCGGCTGTAAGGAATTCGATATTAAAGGCTATTCAAATACCCGCGGCC  
TTCGGGGGGGGCCCCGGGTCCCAATTTTGGTTTCTTTTAGGGGGGGATATC  
CGCCCCGTGCG  
>Sequence 480  
TGATGAGTCAGCTCACCGCGGTGGCGGCCGCGGGCAGGTACAGATGCA  
AACGGAGGTGTAGACTGTGCAGTGCCAAAGTGTGACAAGCAATCCAGA  
GGACCATGAAGGATCTTAATGCAAGTCATGAAGTTGAATGTGCCGATGA  
GGCCTGGCATTCTTGTCCAGAGACAGAGTAAGGAAGTGTGGCCACACCC  
TTAGAAAACAGAAGGGACATGGAGGCAGAAAAAATAAAAAAAAAAAAAA  
AACGTACCTG  
>Sequence 481  
CCTCCACCTTCTTTTTTTCATTGTTTCTCTATACCCGACCTCTTAT  
GTTTTTATCTTTTCTATTATACCTCATTTAATAATATTGTTCTTCTTT  
TAAGTNNNNNNNANNAATTATTTGTTTCGATTCTCCGACGCGAAAAATGTGT  
AATGTAGAAGGCGAAGCCTCTATGTGTTCAATAACCCAAATTTGTTGATG  
TTTTGTGGCCAAGGTGAGGGCTGCAAGTGTTTTCTAAGGGTTGAAACATC  
AGAATAAAGGTATGGTGGCAAGTCCTCTCTGCTAGGCTGGCTGGCAAG  
GCCCTATGTCTTGACCTAGGTGGTAGTTACAAGGGTATTTATTTGCCTTA  
TAATAATTCATAAACTATGTATTTGAGTAGATTTTATGTGTGTGCTTT  
AATTTACAAAAAATAAAAAAAAAAAAAAAGGTGCCTT  
>Sequence 482  
CTGAGAGATCCCCTCATAATTTCCCCAAAGCGTAACCATGTGTGAATAAA  
TTTTGAGCTAGTAGGGTTGCAGCCACGAGTAAGTCTTCCCTTGTTATTGT  
GTAGCCAGAATGCCGCAAACTTCCATGCCTAAGCGAACTGTTGAGAGTA  
CGTTTCGATTTCTGACTGTGTTAGCCTGGAAGTGCTTGTTCCCAACCTTGT  
TTCTGAGCATGAACGCGCCGCAAGCCAACATGTTAGTTGAAGCATCAGGGC  
GATTAGCAGCATGATATCAAAACGCTCTGAGCTGCTCGTTCGGCTATGGC  
GTAGGCCTAGTCCGTAGGCAGGACTTTTCAAGTCTCGGAAGGTTTCTTCA  
ATCTGCATTTCGTTTCAATAGATATTAACAAGTTGTTGGGTGTTTCAAT  
TTAACAG  
>Sequence 483  
TCTTATCTTCATTTCCTTAGTCTAGAAAATTTATTTTGATCTGAGTTCCTA  
ACTCTAACTTATTCTGTTTCTTCAACCATGACAACCTTTGGCGTTGGTTAT  
AAAAATNATATATTTTTTCTTTTNCNNNATNATANACAGGGNNGTTGCTG  
ACATTTTAGAAGCGCTCCACCGCGGTGGCGGCCGAGGTACTCTTCAAAAT  
TGTCAAGGTCATGAAAGACAGCAAAAAGTGAAGAATTCTTACAACTAGA  
GGAGACAAAGATTGGAGAAGAAACAATGACTGGCTGGGCACGGTGGCTCA  
TGCCTGTAATCCACTTTGGGAGCACTTTGGGAGGCCGAAGAGGACAGATC  
ATCTTANGTTGGGAGTTGGAGACGAGCCTGACCAACGTGGAGAAACCCCA  
TCCCTACTAAAAATACAGAATTAGCTGGGTGTGGTGGTGCATGCCTATAA  
TCCCAGCTACTTGGAAGGCCTCGGCAGGAGAATCACTTGAACCCGGGAGG  
CATAGGTGTGGTGAGCCAAAATTGCGCCATTGCACTCCAGCCTGGGCAA  
CAAGAGCGAAATTCTGTCTCAACNATAAATACTAAAAAATAAGTACCT  
GCCCCGA  
>Sequence 484  
GGAGATGTGAACAATGTGTCAATTGCTCTCAAGAGAAGGATGTGGATGGCC  
TGGACCGCACAGCTGGTGCAATTCGAGGCCGGGCAGCCCCGGTCAATCAC  
GTAGTCACCTCAGAGATGGACATCGAGCGGCCGCCGGGCAGGTACACAA

Table 2

GCTTTATTGGGCAACAGCAACGAGCCACGCTGGCAAACAATGAAAGTAGA  
GTCGCTCAGAAACACGAAAGATCATATGTGTGTCATCACAGCATCGAGAA  
TTTAAATCATCTGGAAGTTCCTGCTAAATTAAGCATACTGTGCCAGAGC  
TCCCCTCTAATCAAAAAACGCTGTCCTGGTGAAAAATTGCAATGAGGATT  
ACAGAGAGAGAGATCAACCAGTGAGGAAATCACAGACTCTTACATGAGTT  
TACAGTTAACCCCACTGCACAAAATAATAAATTAGCCATAATTTGGTTTT  
TTTTGAAAAACCATGCCCCCACCTGACCCACACAACAGGTACTGG  
CATGCCAGTTTATTAACAGATGGGCCTAAAAACATGCTGGGGCGGAGAGA  
CAGATTACGGGTAATGCGCTTTGCCCGAGAA

>Sequence 485

ACATTCTCTATTATACCGTATTGTCTTATCTAGTTATTTATACCCCTCC  
TCACTTTCAACTATCTCCGGTATCTCTGTATATACGTCAACTTACTAAAA  
CATATAACNNNAATACTCTTGTNTTTTTTGGCGACTCCCGGGTGGCGGCC  
GAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGGGAGGATACTTTCATTT  
TTATTTTATATCGTGAGGTATTGTTTGGATTGTTACAATGAACTTGCATT  
TCTTTTGTAAATGAAGAAAATAATACAGAGGAAATAACAACAACATAACCT  
TTGGCCTGGATTATCATCGGCTGGAAATTCATGTTGGATGCAAGTTTTTA  
TTGATAACAAGTTATTTTTTGGTTTATATGCAAAAAATGTTTATTGAATG  
CCTCCTATTTGGCTGGCACTGCCTAGGCACCTTTCACAGGTATTTTATCCT  
AATCCTCACAACAGCCCTATGAGGTAATCATTGGTCCCAGTTTACAGAAG  
CCTTGGGTGGGAGATTATTGCTTGATATACTTCTATTTGCCACACATTTT  
TGTTGGCAAGACGTTTCGTATCGGCTGGTGATTCACTGGTCAAGAGCTCTC  
ATTGGCCAGGAGTTCTTATTTGTTGCTGTAAGATTCAAATAATCAAAATA  
CTAGAATTTTCCCCCACAGAATGATGGGACCAGTGGCATAAGAGTAAA  
GGAAGGAGAGTCAGTGGGTCTCTCCCTTGAAGCACCCATTGAGTTGCATG  
G

>Sequence 486

TCACACCTATCTTCTCTTCTCATTTCTCCCATATTATTAATACGCTTATT  
TTCGTTCCCTCATCGTTCTTATAAATCGCTGTTACTACTATACACTTACTA  
TAAGATGAAAACCTTTTAGCNNNNNANANNNNATGGGTCTGTGCGCCCTCA  
CGGGTGGCGGCCCGCCCGGGCAGGTACGCGGGAGTGTTGATTGAACAGAAA  
ATTGAAAATCATAGTCAAAGGGCTTCCCTTGGTTCCGCACTCATTTATTT  
GTAACCTTGACTGGGGTGTTTTCTGCTTAAAAATTTCAATTCTCGTGGTAA  
CAACGCAGAGTAGAAGGAGAGGGTGACTTTACCGAACTGACAGCCATTGG  
GGAGGCAGATGCGGGTGTGGAGGTGTGGGCTGAAGGTAGTGACTGTTTGA  
TTTTAAAAAGTGTGACTGTCTAGTTGTATCTGTTGCTTTTCTCAATGATTC  
AGGGATACAAATGGGCTTCTCTCATTCAATAAAAGAAAACGCGACATCTT  
TCTAAGATTCTCTGTGGGAAAATGACTGTCAATAAAATGCGGGTTTCTGG  
GCCAAAAATTATAAATTTATGGAATATATAATACTAATAGAATAATGTTT  
CT

>Sequence 487

TCCTCTTCTTATTCTTTTCTTTATTTTCTCTATTAATCTAACCTTATT  
CTTAATATTTTTTTAATTATCTTACATCATTCTGACTTGATTCTGAACT  
TTATANAAAGANATTTTTGATGACACCTCCTAAGCTGGCGGCCGAGGTAC  
TTGTTATTTGTTTCTATTATTACTGTTTGACTTCTCCCCAGGGTTCAGTC  
CTCAAGGGGCCATCCTGTCCCACCATGCAGTGCCCCTAGCTTAGAGGCTC  
CCTCAATCCCCCTGGCCACCACCCCCCACTCTGTGCCTGACCTTGAGGA  
GTCTTGTGTGCAATTGCTGTAATTAGCTCACTTGGTGATATGTCCTATAT  
TGGCTAAATTGAAACCTGGAATTGTGGGGCAATCTATTAATAGCTGGCTT  
AAAGTCAGTAACTTACCCTTAGGGAGGCTGGGGGAAAAGGTTAGATTTTG  
TATTCAGGGGTTTTTTGTGTACCTGCCCC

>Sequence 488

GATCGTCATTGTTATTACTTGATTCTTATTTTATTTATGTTTTTGTTTTA  
CTCTTTCTTTTAAATTTCTGATGTTATTTTTTTTTTTTGTATCGTTTATT  
TTTNANNNATNNTTGGGGGCTATAGGCNCTTCTCCCCGCGGGGGCGGCCG  
AGGGACTTNGTTTTTTTTTGTTTTTTTTTTGGTGCTTTATTTTCAATATTT

Table 2

GTCTTATTAATATTTTTCTTATTTTATAATGCAATTACAACGGTTTAGGA  
GACAAAACAATATAAACAAACGAATGTTAAATAGTTTTTTTTAAAAATA  
GCTTGTGTGCTTGCAAGAAAGTCCATATAATCTTATTCACCCCAATATA  
ATTTTATACTTTGCACTAAACCAAAATAGCTTATGGAAAATTAGTATTAA  
ATAGCTAAACACAGAAAAACCTACAGCTATAAATAACATAAAATACAGTTT  
AACTTTAATGTGATGCTTAAACAAAGCAAATATGATGCAATTTGAATCA  
ACTTCATTAATTTGGACCAAGTCCAGTGGGGCACAATTTTGATTAGCCCTAA  
CCCCTCATTGGTGGCCAGTGAAACCTCCACCCCAGCAAGGGCCTTCTGG  
TCTTGGGCTATGTCCAATTCCATTCCAGAAAGCCACAGTTTTTACATGTT  
CTTGACTTTTTTACTGAGAGGACGCCAAN

>Sequence 489

CATTCCCTTTCTTCTTGCAATTTATATGTTAGTTTATATATTTTATTATCT  
ATGTTTAACTATTTATTTTATTATGATTTTATTATTTTCTCTATCATAT  
TTATTCTATTNNCTGTTTGTCTTCTGGATATCATTCCTGGTGGCGGCCG  
ACCGAAACCTGGTGAAGCCCTTTGGGCGATTGGTGATCACCCCTAGATCC  
GTGAAAGCTGGCTGCCCCCATCCGGGCAAGCAGGGCCAAGGTGGCATC  
TTCACATTCCTGGAACCCACCCAGTAACAGCAGCAGGTATTTCTTCTGGT  
AAATGAGAGCCTTTGAAAACCTTTCTGCCCTCAAGTATTTACCATAAAAT  
CTCTTTAAAGTGACATGTTTCAGAATCAGGGCTCAGAGTTTGAAGTAAAGA  
GTCATTTCTTAGTTTCAAGTTTCAATTTGTATAACTTTAGCCTCTGCCCTT  
TTCAAAGATTTTGGAGAGTCAATTTTCTTTTGTTCATCTTCTTTTC  
AGAGGGCATGTTGGCTTCAATGTTGGGCACCACCAATCAATGAAAACCT  
GGAGATTATTTTACCAGCTTCTGGCTGGCGATCCAATGATCTGCCCT  
TCCAGCTTAATACCCATGTCCTTAAATCATTTCTTTTTCAGTAAATTGGCT  
TGATTTCCCTGGCAGCTTAACATTTTGTAAAAGTCTTTATTTTATGTGC  
CCCAAGAGTCTTTGCCGTTTTAAACTGTTGACCCCGGCTTGTGAATCG  
TATAAACCTAAAAATCTGTCCCTT

>Sequence 490

GGGGATATGTCGAGTCTCCCGCGGTGGCGGCCGAGGTACCTGATTTTATT  
TCCAGTTTTTATCCGAATCCACTGGGGAATGGGACGATTTTGCTTTTGT  
TCTTGGCCAGGAATCGCTTAATCCTGAAAGTCTTGTGAGAAGACA

>Sequence 491

TTNTAAGAGATGAGCTCCCGCGGTGGCGGCCGCCCCGGGCAGGTACAAAAA  
AATAAAAAGGAGGCTGGTGGGAGAACTGCTTGAGCCCCAGAGTTTGAGGT  
TACAGTGAGCTATGATCACATCACTGCATCCAGGCCTGGGCGATGGAGC  
GAAACTGTCTCTTAAAAAATGGCAGGGAGTTGGGGAGCTGGGCAGGTGCA  
GTGGCTCATGTCTGTAATCCCAATACTCTGGGAGGCCAAGATGGGAGGAT  
CACTTGAGCCCAGGAGTTTGAGACCAGGCTGGGTAACACAGGGAGGACCC  
CGTCTCAAATATTTAAAAAATTAATCATGCGTAGTGGTGCATTCCTTGGG  
GGTCCAGCTTCTTGGGGAGGCTTAAAGTGCAAGGGTTAGCTTTGGGCCT  
TGGGAAGACACAGCGTTCAAGAGGCTTTGAATTTGACCACTGGTACTTTA  
AACCTGGGCCGATAAAATGAGAACCCTTTTCTTAAAAAAGGGG  
GGAGGGGGCCCCCTGTTTTATTTTGCGCAACAAACCAATTTTTTTT  
AAA

>Sequence 492

TTGTTACGTGTCGAGCTCCCGCGGTGGCGGCCGAGGTACATGAGAGATAA  
TGTTATGACAAGAATAGTTTCTGCAACATTAAGTATGGGTCAAAAAAAGA  
AGAAATGGGCCAGGCGCGGTGGCTCATCCCTTTGGGAGGCTGAGGCAGGT  
GTATCACAAGGTCAGGAGTTGAGACCAGCCTGACCAATATGGTGAAGAAC  
CCATCTCTACTAAAAAACAACAACTTAGCCAGGCATGGTGGTGCACG  
CCTGTAATCCAGATACTCAGGAGGCTGAGGCAGGAGAATCGCTTGAACC  
CGGAGGTGGAGGTTGCAAGTGGAGCCGAGATCACGCCACTGCATTCCAGCC  
TGGGCAACAGAGCAAGACTCCATCTCCCAAAAAACAAAGAAATGACTTTA  
GACAAATGGCTTGAATGAAATTACAAAGAGGAGGTGCATTAAAAAATACC  
AGCAGTAAATCTCTTGAAGAATTAATATGACAGGCTAAAAATAAATATA  
AATGTTCTTTTAAAAAATACTAGGTTGCTGCTGGC

Table 2

## &gt;Sequence 493

GGGGNNAATGGATAGAGCTCACCGCGGTGGCGGCCGCCCGGGCAGGTACG  
CGGGGGTGGCGGCGTTGGGTTGAGCGGGCTTTTGGAAAGTTTGTGGCGGA  
GTTCTGTGATATGAGCAACAATGGACCAGAAGATTTATCTCTAGCAGCA  
GAAAAAACAGCAGACAACTGCAAGAATTTCTTGGGCAGGGCCTGGGGAA  
TGCTTTTTTATCTCATATTAGTGCCTGTGATGGCATCTTTCATCTAACAC  
GTGCTTTTGAAGATGATGATATCACGCACGTTGAAGGAAGGTAGATCCT  
ATTCGAGATATAGAAATAATACATGAAGAGCTTCAGCTTAAAGATGAGGA  
AATGATTGGGCCCATTATAGATAAACTAGAAAAGGTGCCTGTGAGAGGAG  
GAGATAAAAAAATAAACCTGAATATGATATAATGTGCAAAGTAAAAATCC  
TGGGTTATTAGATCAAAAGAAACCTGTTGCTTCTATCATGATTGGAATG  
ACAAAGAATTGAAAGTGTGAATAAACACTTATTTTGACTTC

## &gt;Sequence 494

TTAATTTGATCGAGTCCACCGCGGTGGCGGCCGAGGTAATCATGGTTGCT  
GTAAATTAGGCAGCGGTTCTGCAGGGTTTTGCTTAGCCAGGCTCCTCTGA  
GATCTGGCTATTCTGTCTTGTGGATTTTCAGTCCCCGCGTACCTGCCCGG  
GCGGTTTCGAGCGGTGCTCCGGTCAGGTACATATACATTATGTAATTA  
AGCGTGCATGTTTATGTATTAATAAATAATTGGATTAAACAAATATTATA  
TATACATTATAACACCTAAACGCATAGGCTGTTGTTATTACAATAGTTA  
TACCAATATTATTAATGATGTGTATGAAGACACAATACAAAGCTGGAGGA  
AGTATTTAATAGGTATACTCAACTAATACACATAAATTCTAAGCAATAAA  
GTACGCAAATTATGTTTTTGGATGAATTTTCAAAATTTGTGATAATAGAC  
TTATATTCAGTTAAACCTGTATAATTTTTGGAATTTTAAACTTGTGACA  
AAAACTTTTGTGAAATGTTTCTATTAAATTTAT

## &gt;Sequence 495

GATCGAATCAATCGGCAGCGCTCGAGGTACGATGGGGCATATCTGCAGAT  
CTCAAGATCTGGACTTCTGTTGAAAAATTTCCACGTGAGGTTTACTTAT  
GTCTGTAAAGATGGGAAAAAATAACAAGAACATTGTTCTACTAAAAGGAT  
TAGAGGTCATCAATGATTATCATTTTTAGAAATGGTTAAGTCCTTACTGAGC  
AACGATTTAAACCTTAATTTAAAAATGAGAGAAGAGTATGACAAAATTCA  
GATTGCTGACTTGATGGAAGAAAAGTCCCGAGGTGATGCCTGTTTGGCC  
AAACTAATAAAAAATTTTCGAAGATATCCCAACCCCTTTGAACACCTGGTTT  
AAACTTTAAAAAATAAATAATGTTAAAGGTAAAGGGCCCCCCCCCTTATT  
AAAAAAGAAGAAAAAAGGGAGGGGGGTTTTTCTTTTCCCTCGGCCCTC  
CCCAAAAAGCGTGTTTTTTAAAAATTTGGGGGGGGGGGGGCGCTTTTTT  
TTTTGGTTTTCTAAAAAATAAATAATTTCCCCCAAAAGAAAAGGCCT  
TCCCCCAAAGGGGAGGTAGGGCC

## &gt;Sequence 496

TGGAGATGAGCTCACCGCGGTGGCGGGNCGGCCGGGCAGGTACCGTGAAA  
AGGCACTTCTCCTTGAGAAGCCTGACAGTGTGCTTAATGTCCTGCTGGCG  
CATGGTGAAAATTTCAAGGGCAACAGTAAAGCACCCCTCTTAATTTCCCTT  
CTCCAAGCCCAAGCTTTTGCAGGTAAGTGGAGCGCTTCCTCATTTGCATA  
ATAGGCAGTTTCAATAACTGGGACTTTTCTCAAGACCACACACAGG  
CTCTGGATTAAACCCAGAAAATTAATCTTGAATGGTGTCAACAACCTG  
GTGGAGAATGGGACCTTGGCGGACCTTGGGCGG

## &gt;Sequence 497

TGGAGCTCACCGGGTGGCGGCCGAGGTAATGGAGCCTCATAAGGCTGGC  
TGTTGAGGTGTATTGACTGTGAAAGCCCGCATGTGAATCACAACCTCA  
AAGACATGAGCGCAACAGGCACAAATGTATATTTAGGGTGAAAGTGAGAC  
CGCACATTGGATGTCTTGTGGAACATCATGAATCAACACACATAGTACCC  
CAGCTGTGATAACGCATGGAGATACACATGGCATGGGGCTGCATATAGGT  
TGGATTTGAAGCCGAAACAAAGAGGTCCCTACTGAAATGAGCATTGAAACA  
CACAGGTTTATTATGAGGACCGAATGAATATATTACAGAGCCCTAGAGTG  
GCCCTGCGCCGGAACGCGGCACATGAAGCAACTAGGCGGTAATTCTACAC  
CCTCTGTGAGTGAATAGCTGATGATCTAATGACTTCAATTCGGGTTACGC  
TGTCCTACTTNNNACCGGGGGGGGGGGGGGGGGGGGGGGGGGGGTTAACCCC

Table 2

CAAGCTTTTTTTGGTTTCCCCCTTATATAGGTTGGAGGGGGGTTTAAAA  
TTTGGTCGGCGGCTTTTGGGCCCCGTAATAATTCAATGGGGTTCCCATAGG  
CCTGTGTTTTTCCCTTGGGTGGTTGAAAAAATTATGGTATATATCNC CGC  
TTTCAACCAAATTTTCCCTACAAACAG  
>Sequence 498  
TGGTTGAGCTACCGCGGTGGCGGCCGCCGGGCAGGTACAGGGCCTTCC  
ACTTCAGCTGACTGAATTTAGGCAGTTCTGGCCACTTCAGTTTCCGCACC  
CAGGCCTCCTGACCCATGGTATCTACGATGAGATCCAGCTGTCCATTATA  
CACCGTCACGTTGATCCCTGCCTCCAGCAACTTGCCACAATGCTAATGAC  
TGGGTTTAAGGAAGTCTCCCCCATGGTACAAAAACACGTGGGGGGCCCG  
CCTCCCCAGAATGGGACCTTAAGGAAATATTTTGGGCTTTTTTTTTTTGG  
GGGGGCCATTATTAACCTGGGTTTAAGGGCTTCTGTAGGGGGGGTTACA  
AGGGGGCGGACAAAAAACAACAAAGGGGGGTCTTTGTGGAAATTTTAAA  
CACCCCTCCCCCTTTTTGAACCGGGGGGGGGGCTTTTTTTTAAAAAGGT  
TTTTTAAAGAGTTCCCCCCCCCTCTTGGTTTTGTTTAAAGAAGAAATTT  
TTGTTTTTTCCCCCAAACAATTTTGGGGCGTCTTTTTTAGGGGGCC  
CCCTTTTTATGGGGGATATCCCCCCCCCGCGGTTTAAA  
>Sequence 499  
TTCTTATATATGCTTATATATTTTATATATATAATTTTCTTATTACTTC  
TTTCATGTCTACTTTAGCTTTACTCTATTTTCATATATTTTATTTTATT  
TTCTANATTCTATCTATCTAGANAGGATGCGGGGGCGGCCGAGGTACCTC  
AATTGATGATTTCTGGTATGACCTAGCAAATACACTGCTTTCAGTGAAT  
TTCAGTCTTGCAATCTGCTTTGGGTTCCCAATCTAAGACAGAAACATAC  
TCATTTTCCCATCACTGGACTTCCAGGTTGTTTTCAATTTTAACTGTTA  
CAAACAAGGTGGCAACATTTATCTACAAACCTCTGGATATACACGTAGGA  
AGCTTTTGGTATTTCCACTAGTGAACCTGCTCAGTTGAAGGGTATGTGGA  
TCTTCATCTTTAATAAATATTACCAACATGTGAAAAGCCCGACAATGTCA  
AGGACTGGCAAGAGTGCCACATGTGATGGGTGTGGAATGGCAGCTCACTG  
TAGCAGGTGCTGGGGACTCAATTGGGGTCTTGGAGAAGCACTTAGTTATA  
GCAAGAATGTCTCATAAATGGGTTCTGATAGAGACCAGAGTAGTGGGGAA  
TAAAACTAGTTGGCTAGAAATAATTATTGATCTAAAGTCAACAAAAAAC  
CCTTTTAAATGTAG  
>Sequence 500  
TCTCTTGATCTTCGCTTTGACCGCATATCTTATTCTGCTTATTATCTTAC  
TCTAATACTATTACCTTATTATACTATCTAACTG  
>Sequence 501  
CTCCGCTTCTATTATACATTGTTATTTGATTGTTATCTGATATGTTTTG  
TAATGCTCTTCGCACTCTATCCAGATATATTTA  
>Sequence 502  
ACTCGCGTTTTTCGTTAATTGCTATCTTATTTGATTTCTTATTCTTTTTT  
TTCATTTCTCTATTTATTA  
>Sequence 503  
CCTCTTTCTCATCTTCTACTTTCTTATAATATCTGTAATTATAATCCTG  
ATTATAATTCGTCTTTTATCTTTTCTACATCTANAATCGTGTCTTATCT  
TTATGTACGTATACTCCTACTATTATCTTCTGACTATACCATCNAATACT  
ACTTATGGTGATGGTTCACCGCGGTGGCGGCCGAGGTACTTTTTTTTTT  
TTTTTTTTTTTATGAATTATTTATTTTCTTTCTCAGAAAAGGATGTCGTC  
TCCACTTAGCAAGGCATGGGCATGTATGTGGTTTTTGCATACTGOCCACA  
TGACGTGGGGTGTGTTCTATGACTGGTCCGCTTCTATGAACCTAGGTGTG  
ATACTCCCTCGGGCGTGTACGGAAATTTTCGATTATTCACATGCTCTAT  
TCGTATAACCGTTTCAACCTTTATAAGGTGGTGGTGTCCCTCGGGTAAC  
CCCAGGCTTTTTTTTGTCTCTTTATATGATTGAGGGTGTTTATAATT  
TGCCGACTGCCTCTGTGGCCGTTATAATCCAATGTGGTCTATTAAGCCTT  
GTTTCTACCCTGGTGGTGAAAAAATTTGTTTTATCCCCGGCTTCCAAC  
AAATTGTCCACCTCCAATCTATTATCTGAAGTCCCTGTGGGAAGTCAA  
TAAATATGTTTGTTAATAAGTCTCTTGGTGTGTCTGCTCTCAAAATTGCA

Table 2

GTITGGAGTCTTTAAACCTCCACCCATTTAAATTTGGCGGTTTGGCGGCC  
TTCAACTTGGCCCCCGCCTTTTTCCATAGTTCGTGGGAAACCCCTTTGT  
CTGTTGTCCCACTCTTGCAATTTTAATTGAAATTCGGTCCCAACCCCTC  
CCGGGGGTAGAAGGGCCCGGCTTTTGGCGTATTTGGGGGGGGCCTCTTAT  
CCGTTTTTCTTCGGCATAACCTTGAT  
>Sequence 504  
CTTAATGAAGTGATGCTTAACCTTCACATTTAATTTGCGGTTGGCGCTTCA  
CATGCTCCGCCTTTTCCAGTCCGGGAAACACTGGTGGTGCCAGCATG  
CCATTACATGGAATTCGGCCCAACGCCCGGGTGAGGAGGCCGGGTTTT  
GCCGTAATTGGGGCGCCTCCTTTCCGCGTTTCCTTCGGCTTCAACTGGAC  
TTCGCTTGGTGCTTTGCGTTTCGTTTCGTGCTGGTTGGCGAAGCCGGGTTT  
CAAGCTTTAACTTCAAAGGGCGGGTAATAACGTGTTATCCACACGAAAT  
CAGTGGGGATAACCCCATGGAAAAGAAACATTGGTGAGCAAAAAGGGCCC  
AGCTAAAAGGCCAGGTAACCCG  
>Sequence 505  
CACACACTTCATCTGTATCCATTATCATTCACTTAACTTACTTATTTAC  
ATACATGTTATCTACATTATTTCTATGTATACTTGCATTGTCACTCA  
TCAGTCTATAATTATATTATTTGAAGTAGACCACTCG  
>Sequence 506  
CACTACCTGCTATCGTCCCTGNCTACNTGTATCGTCAGTATCTACATCTA  
TCTNGACATCTATACAGCTTATNTATCGGTTTCGTGTANANCTATNGTATC  
TGTAAGTGTGTGTCAGTCGATATCTCACATCCGCGATATCGTTTTCTGTATT  
ACGTCTCTCTGTCTGTATTTCATCGTATGTGATATTATANTNATAATCATA  
ATGATTTTAGACTCACCGCGGTGGCGGCCGCCCGGGCAGGTAAGTCTCTT  
GGTGAGAGCGTGAGCTGCTGAGATTTGGGAGTCTGCGCTAGGCCCGCTTG  
GAGTTCTGAGCCGATGGAAGAGTTCACATGTTTGCACCCGCGGTGATG  
CGTGCTTTTCGCAAGAACAAGACTCTTGGCTATGGAGTCCCATGTTGAT  
GGATCCTGAGCTTGAAAAAACTGAAAGAGAATAAAATATCTTTAGAGTC  
GGAATATGAGAAAATCAAAGACTCCAAGTTTGATGACTGGAAGAATATTC  
GAGGACCCAGGCCTTGGGAAGATCCTGACCTTCTTCAAGGAAGAAATCCA  
GAAAGCCTTAAGACTAAGACAACCTGACTCTGCTGATTCTTTTTCTTTT  
TTTTTTTTTTTAAATAAAAAATATTATTAAGTGGACCTCCTAATATATACT  
TCTATCAAGTGGAAAGGAAATTCGCGCCCATGGAACTTGGATATGGGT  
AATTTGATGAACAAAATCTTTACTTAAAGCAAGGTTCTTGGCCGTG  
>Sequence 507  
CACTCACCGTCGCTATTCTTTGCTCTGTTATTAATGAGGTTCAATCTAC  
GTCACATTCTTATTTAATTTACTATATTATTTCTTACATTTTATTCATAT  
ATAACTCATTTCTTATCTNTTCTCAAGTTTGATGTACGGGTGGCGGCCGC  
CCGGGCAGGTACGCGGAAATCCCCTAACTTCCTTGCTATCTTCCCATCCC  
ATATTTAGGTTAGATATGAGAAGTTGTGTATGCTGTGTTGTGTGCTGTGT  
GGTTGCTACGCACATGTGACTGATACTTGAATACACTAAATTGAAGTAT  
ATTGTGAATAACATATCACTGCAATTTAATGGAACAAACATTGGACAAAA  
TTTTCATTTTAGGACTTCTCTAATTCATAATGATGTATTCCAGTTTCTCT  
ACAAGCTTTGGCTATTTAGTATATCTTAGCTACTTAAACATTTCTAGAAT  
TCTCTGGACATGGTTTTCTCTGGTGCGAATATAAAGGTCAAGGGCCTCT  
TTACCAAGTTCTAAGCCAGCTCCTTTTTAAGCCTACGTCTATGTAAACCC  
AGTTTAATAATCTAATCATAACAAGGCAAGGACGCCCTTTTAAACGGTTGG  
TATATTTTTTAGTTGAACTCCTAAATAACAATGGATACCTTCCAGCGAGT  
TTTTCTCAGAAAAATCCCTCTAACCACAATGGAAATTAGGTGGGGGAAGG  
TTGAACTTAAAGAATAACTTGGAGGAAAAGGGTTATGAAATTTTCAGAAA  
TTATGGGTGGTTAATATTTCTTCGTCCAAAAATATTTCTTATTCCTAGG  
GTGGCCATGAATTTTACCCCTTAAAGGACCTACCAACCCATTTAGTGAA  
ATAAATTGGAGCGGGATGTGTAAACCACATTGATTGTCAATAAAACAGGA  
TACAATCT  
>Sequence 508  
CTCGCTCCTTTATCTTCTTATTTTATCGATGTGATTGTATTTATCTTACT

Table 2

TATCGTTGTA

&gt;Sequence 509

AATTGGAGCTCCACCCGGTGGNCGGCCGAGGTACACTCCCACGACCACGG  
CATGGTCTCTTTCATATGGCTCAANNNTCAACTGGGCCGTGGGGGGTTA  
TATTCTACTNTTNCATCTTTTCACTTCNNANGCAAAACNNCCTCANNCT  
TANNCTTTNNANTCAATNCANTTNNCCTTAATNNAAATCACAAANTNTCC  
TCCATTACNCANNAANNTNTNNNCATTCAANNCCACAATCCGGGGGGGGG  
GGTNNCTNNGGCCACATCANCAAAAATCACATCCACCATTCGNATCCNCN  
TACCTGCCCCG

&gt;Sequence 510

ATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACTCTCTGAGCCA  
AGGACATTCTCATTTAAACAGTTTAAANAGGCGGGGTGCGGGAGGCGGAA  
AAAAAGAAATATACCCTGGCAGCGCTGCCGGCCGAAAGCGGAGAGGGAC  
GCTAAGATCAGCAAAATTCGCCAGTTTGGATCCTTGTCCTTTTCCGCCCTT  
TTCCCCCATTTAAATCCAGAACCCGTCACATGATAATTAAGAGGGGGCGG  
CAGTTCGGCTGCTCAAACGACTGCGGTAGAGGATCCCCCGCGTACCT

&gt;Sequence 511

CAACTTGTAGCCTAGNCNNGGGCGTTCCCCGAGCNACTACTTTTTTTNNN  
NACANNNNNNCCGGNNCCCAAAGACTTTTCCACTCTGCTACTCAAGGTGG  
AGTGCAGTAAACCAAATCACAGCTCACTGCAAGGGCACACATCACTATTCT  
CCAGCTAATTAATAAAATTTTTCATACAGATAGAGTCTTGCCATG  
TTGCCAGACTGGTCTCAAAGCCCCGGAACCATGNTTCTTTGGGCGGGG  
GCCCCCAAAGGGCNGAGAAAACAGCCACGACCCACGGCACCAAGCNCGA  
NNGAGGGCGGGGAGACGCCGCAAAAGCAAAACGGCGGCCAAANCNGAG  
GGAGCAANNCGGGGCGAAAAGGNAACGGAACCAACGAAAGAAAACCA  
AAAGAAAACCGGAGCACACAGGGGGAACCGCGCC

&gt;Sequence 512

TGCGT

&gt;Sequence 513

NGCGTTAGGAGCACTCCGCGNGGCGCTGGANNGTTTGATCAGGACGCCC  
CGNAGNCACCGACGAGGACCAGACGCTGNNANGAACATTTATTCAAAGCC  
CACCCGGNACAGCCCNAAAGGCCAACCTTTTTGGAGGNGCCNGGGANG  
CAAACCGAAAAAAGCNGGAAAAANNGAGGAGNNGAAGCCAAACAGCCAA  
ANNCGCCANNAGGAAGNGNGNAAGGGGTTTTTCNAGTTTTTTNNGGGT  
GTAGANCACCCCCNNGAAAAAGNCCGGGAGGACGCCCCAGAACGAGGGG  
GGGGGGGGGGCCGCAAGAAGGGGAGANCAAGCANNANCGANACCGCGACC  
CCGAGGGGGGGGGCCGNACCCAGGCGGGGGGCCCCCAAGGGAGGGGAAACN  
GCGCGCGGGGGGAAACAGGGGCAAAAGCGGGCCCCGGGGGAAAAAGGGAA  
GCGGCGACAAGGGAAACAGCAAAACGAGGCGGGAGGCAAAAGGGAAAAAGC  
CGGGGGGGGCCAAGGAGGGGGGGGAAACGAAAAGAAGAGGGGGGGGGGCA  
AGGGACGGCGAAGAGGGGGGGGAACCGGGGGGCGAGGCGGAAAAAAGGAAG  
GGGCAAGCCGCGGAGAGGGGAGAGGGCGGAGAGGGGGGAGGGGCAGAA  
GCGAGCGACGACCGAGGAGGGCGGGGGGAGGGGA

&gt;Sequence 514

GCGATTGGAGCTCCCCGCGGTGGCGGCCGCCGGGCAGGTACCTCCGAAA  
TCTTACCTTCAGTCTTCTCTGCCACCCAGTCATTTATATGCTTCCTGCAC  
TCTTCAGTGTCTTCAGCAAAGGACAACCTCCTCCAGCTCTGCCTGATAGAA  
CTTCTGACAGTATTCTTTAAAGTCTGGAAGGAAATCACACGTCTTTTCTC  
CAAAGAGTCTGTTGGCAGTTCTAAGCAAGTACGCGGGGTAAGCAGGAAGT  
GAAACCACAGAGCTTCAAAAAAAGAGCGGGACAGGGACAAGCGTATCTAA  
GAGGCTGAACATGAATCCACAGATCAGAAATCCGATGGAGCGGATGTATC  
GAGACACATTCTACGACAACCTTTGAAAACGAACCCATCCTCTATGGTCGG  
AGCTACACTTGGCTGTGCTATGAAGTGAAAATAAAGAGGGGCCGCTCAA  
TCTCCTTTGGGACACAGGGGTCTTTCGAGGCCAGGTGTATTTGAGCCTC  
AGTACCT

&gt;Sequence 515

Table 2

CGGATTGGAGCTCCCCGCGGTGGCGGTTCGAGGTACGCGGGGACGGCGGAG  
CTGGCTCTCACGTGGAGGCGGGTTAATTTGCCCCACCGGAATGATCACCA  
AGACACACAAAGTAGACCTTGGGCTCCCAGAGAAGAAAAAGAAAGAAA  
GTGGTCAAAGAACCAGAGACTCGATACTCAGTTTAAACAATGATGATTA  
CTTTGCTGATGTTTCTCCTTTAAGAGCTACATCCCCCTCTAAGAGTGTGG  
CCCATGGGCAGGCACCTGAGATGCCTCTAGTGAAGAAAAAAAAAAAAA  
AAAAAAGTACCTGCCCCGGCGGCCGCTCGACGTGGTTCGCGGCCGAGGTAC  
AACTGCAGTAAGAGGGGACGGTTAATTCACAGCTTCCAGCTCTTGGCGCCA  
GAGTCCGATGCACTCCTGCAGATAACGGTCAATTTCCATTCGGGAGAACC  
TCTTCGAAAAACAACCCGGATGAGACTATCTGGCAAAATTGCAGCCCTTGG  
CGGGCTTTTCAAATAGAGCGTTGACCAATCAAAGAAGGGGGACGTTACAG  
GCACTGAAAGAATAACC

>Sequence 516

TTTGTCTTTGTAGCCCAGGCTGGAGTGCAATGGCAGGATCTCAGATCAC  
TGCAACCTCTGCCTCCTGGGTTCAAGCGATTTTCCTGCTTCATCTTCCA  
GGTAGCTGGGATTACAGGCATGTGCCACAACGCCTGGCTAATTTGTATT  
TTTAGTAGAGACTGGTTTCTCCATGTTGGTCAGGCTGGTCTCAAACCTCCC  
GACCTCAGGTGATCCGCCCCGCTCGGCCTCCTAAAGTGCTGGGATTACAG  
GCGTGAGCCACTGCGCCCAGCTATACTGTATATTTTAAAGAAGTTCCAGCA  
TGTTGCATCTCTGCATTTATCCTATATCATTTAAAGAACATAAGTTATCA  
TGGTGTGGGTAAATTAGCGAAATCAACCCTTCCTAGGTTTAGGGGAAAG  
TTATTTTAAAAACAACCTTAATAAACTTACACTCTTATACAAGAGTGAT  
TTCCCTTATTAGGATGCATGTTGATTAAACTCGAGATACAGCTTTTTGC  
AGATGGGGGGTTGGGTTTGGTGTAAACCTCTTTAACATGTCACACTGGTTT  
TCAAGATTAAGAAAAATTGAGTTTGAGTGTGTTTAAATACTTTCTGAGT  
TTTTAGAAGTCTTATTATTTTAAAGAACTTAATAAAGGTCTAGATTGAC  
AAAN

>Sequence 517

AGGTACGCGGGTGTTGATCCAGTTCCTTGTCTTTCAACGAGAAGGATTTGG  
ACGTCAGAGTATGTCAGAAAAACGCACAAAGCAATTTTCAGATGCCAGTC  
AATTGGATTTTCGTTAAACACGAAAAATCAAAAAGCATGGATTTAGTAGCT  
GACGAGACTAAACTCAATACAGTGGATGACTAGAAAGCAGGTTCTCCAG  
CAGAGATGTGGGTCTTCCCTGGGTCTGAAGAAGTCAAGCTCATTGGAGA  
GTCTGCAGACCGCAGTTGCCGAGGTGACTTTGAATGGGGATATTCCTTTC  
CATCGTCCA

>Sequence 518

CACNCAGNAGGCTCENNAAGCAGGACTAGGCACANCC  
CCCCGGGGGAAGGGNNGAAGGGAGGGCTTTGAGGGCNGAGGGGGAAGCCC  
CGGAAAGNNNNCCNCCANCCAGGGGAGAAGAGACNCGGNAGGGACACGCC  
AAGGAGAGGGGAACAGGGGAACCANCACTTTTGTCTTTGGGGGGCACNGN  
GCAGGGACCCCCACAAAAAAAGACNCCCCCAGGAGGGGGGGGGGCA  
AGCGGAAAAAAAACAAGACCCAAAGAAAAAAACAAGGGCACACAAAG  
CAAACGGCAAAACCCGCAACCTGCCCGGGCGGCCCGCCAAAAACAGGGG  
ACCCCCCGGGCCGAGGAACGCGAAAAACAAGCCAACCGACCCCGCGGACC  
CGCAAGGGGGGGGGCCCGGCCCCAGCATAGGAACCTAAGGGGAGGCGAAC  
GGCGCCCCCGGGGAACAGGGGCAAGGCCGCGCGCGGGGAAAGGGGAA  
GCCCCAACAGGCCACCAAGAACGGGCCCGGAGCAAAAAGGGGAAACCCGG  
GGGGGCCAAAGGGGGGGGCAACCACCATAAAAGGCGGGGGGCCAGACCC  
GCGGACAAGAGGAAAACCGGGCGCCCGA

>Sequence 519

TCCCTCCCCAGGGATCCCGGTTTTCGAAGGTGCGCTTTGCCTCCGTTTAA  
ATAACTCAAGGGGGGAGACGGTTTTTCCCGGAGTCGGGTTTACCTTGAAG  
ACGTGTAGCGAAATCCCCCAAAAGGCGGGAACCCAAAAAAGAACCGTTGT  
TCGAGGGTTCCATAGGN

>Sequence 520

GGAGCTACCGCGGTGGCGGCCCGCCCGGGCAGGTACTATGTTGAATAAAT



Tabl 2

GTTTTTTTCCCTTTTAATTTTTCTGCTTCCCTAGTGCATAGAATTGAACT  
GCTTAGGGAGTTTGAGGCTGCAGTGAGCTATGGTCATGTTACTGCGCTCC  
AGCCTGAGTGATGGAGTGAGAACCTGCCTCAATTAATAAAAAAAAAAAAAAGA  
AAGAAAAAACAGTGCAGTGGCTCATGCCTGTCATCCCAACAGTTTTGGAA  
GCCAAGGCAAGAGGATTCCCAGGAGTTCAAGACCAGCCTAGGCAACTTAG  
CAAGACCTTGATCTTCCAAAACTTTAAAAATTAGTTGTGTGTGGTGTG  
CCTGGCTGAGATGAGAGGATTGCTTGATCCAGGAGGTGGAGGCTGAAGTG  
AGCTATGATTGGGGCACAGCAATCCAGCCTGGGGGAAAAGGGAAACCCTGT  
CTTAATAAAAAAAAAAAAAAGAGACCAGGGCGCTTTAAACTAGGGAAT  
CCCCGGGCTGAGGAATTCAATTTAACTTATTGAATCCGTACCTTAAGGG  
GGGCCGGTCCCAATTTTTGTTCTTTAATGGGGAAATTCGCCTTTGGAAA  
AAAGGAATAGTTTTCTGAGAAATTTTTATCGTTAAATTCCAAACATACG  
GC  
>Sequence 521  
CCGGGCAGGACGCGGGCGGCTCTTAACGGTGGATCACTCGGCTCGTGCGT  
CGATGAAGAACGCAGCTAGCTGCGAGAATTAATGTGAATTGCAGGACACA  
TTGATCATCGACACTTCGAACGCACTTGCGGCCCGGGTTCTCCCGGAG  
CTACGCCTGTCTGAGCGTCGCTTCAAAAAAAAAAAAAAAAAAAAAAG  
GTCCCT  
>Sequence 522  
AGGTACACCTCCCAAGCTCTCTTCCCTCCGGCTCTAGCTATATAAGACGT  
GCCTGCTTCCCTTCGCTTCCACCAAGACTGTAAGTTTCTGAGGCCTC  
CCCAGCTTCTGCTGCTTCTGTCAGCCTGCAGAACTGTAAGTCAATT  
AAACCTCTTTCTTTATAAATTACCCAGTCTCAGGTAGTTCTTCACAGCA  
ATGTGAGAACAGACTAACAACAATCAACTCATGGCTTTAACACAAAAAAA  
ATAGGTAAGTTCAAAATTAACATATTACCACATCCAACCTCTTTATTCTT  
GAGAAAACAAAAAAGTCCAAATCAAAGGAAAGCACCCGTTTTAAACCTT  
CATATCTTTCTCAGGGCTCACTGCAGTCTGGCCATATCTCAAGCAGGTCT  
>Sequence 523  
TTGGAGCTCCCCCGGCTGGCGGCCCGCCCGGGCAGGTACGCGGGGGAGTGA  
GAGGGAACGAGAGTAAGAGAGAAAGAAAGAGTGAAGGGATGTAAACTCGAA  
TAAATTTCAAAGTGCCTCCGAGGGATGCAACGGGCAAAAACTGAACTGTT  
CAGGCTTCAGATTGTAAGTACGATCTGAGGAAAAATGAGGTTTGTGTGA  
TTTTGCTAAAAATGCATCACCAACAGCGAATGGCTGCCTTAGGGACGGACA  
AAGAGCTGAGTGATTACTGGATTTCAGTGCAGTGTGTTTACCTCCTGTG  
AGCAGTGGGAAAAATGGACCAACTTCTTTGGCAAGTGGACATTTTACTGG  
CTCAAATGTAGAAGACAGAAGTAGCTCAGGGTCTGGGGGAATGGAGGAC  
ATCCAAGCCCGTCCAGGA  
>Sequence 524  
AGGTACGCGGGCTCTTGAGGAGTGAGACTGCAGGAGATGTGGGCCGTGC  
CAAAGAGATGGATGAGACTGTTGCTGAGTTCATCAAGAGGACCATCTTGA  
AAATCCCCATGAATGAACTGACAACAATCCTGAAGGCCTGGGATTTTTTG  
TCTGAAAATCAACTGCAGACTGTAAATTTCCGACAGAGAAAGGAATCTGT  
AGTTCAGCACTTGATCCATCTGTGTGAGGAAAAGCGTGCAAGTATCAGTG  
ATGCTGCCCTGTTAGACATCATTTGTAAGTGCTGGAGTGCAAGTAACGCCA  
TCTCAGCTCACCGCGACCTCTGCCTCCTGGATTCAAGTGATTCTCCAACC  
TTAGCTCCCGAGTAGCTGGGACTATAGCAGTGCACCACCATATATGCAA  
TTTCAT  
>Sequence 525  
GCGTTAGNAGCNCTGCGNCTGTGGCGNCTTCCGATCNTTCGNGAGCTTT  
ACGGNCCCNCGGCCAGNNCACCCATTTTTTNNGANGNAGTTNGAGGCGG  
GGCCTCCCCGACCCNCGGAGAGGAAGGAGACNGTTTTTTNAGGNGCCCCGG  
GGGCCACACCCAAAAACCCGAGCCCGCAANNNGCACCGGACANAACA  
NNCGCGNGGGCGCAAAACANCAACNGGGAACANCCCCGAGGGAACCGCC  
CTTTTTTTTTTTGTTGTTTCGCAANNAGGGNGCCNNGCGCGCCACAA  
GAAAGACAACCAAGGCCCCCGGGGAGANCGGGNGCAGGCCCAACTTTC

Tabl 2

TGTGGGGGTGTNCTTGNNGGACCACACATCTTTCCTTCTGGTGGGCAAC  
ATTCACCTGGGCTGAGCGAATGGGCACCTCANTGCACAGAGAGGTGGCTT  
CTGAGGACCCAGCTTCCCTCTCCAAAGAGTGGATCATTTCTTGTTCAAA  
GATCCAGGGACCTGACCGTTCCTACCTTTTTGCTGAAGAGATTTATGAC  
CGGCAAGGTGGAGCCCCCTGGGCGCTGGAATGAGCCTCTCTGAAACACTG  
GGGGCCCCGAATTCACGCCCCCTGGCGCAGGTACACAGCCCCCGGTCC  
TTCGCCCCCTGGGTGGCTTAGGGCCTCCTGGCATTCTGGAGGGGCCCTAT  
TCTAATACCAGCCCTCATCAAATTGGGGCTACAACCCCAAGGCCCTCTGG  
ATC

>Sequence 526

GCGATTGGAGCACTACGCGGTGGCGGTTGAGGGACATGACATGCCACCAG  
TAAACCTTAATGTCTTCCTTTTTTCTCACTGGGTTTTTCATAGATCGA  
GACATGTAAGCAGCATCATGGAGGTAAGTTTTTGACCTTGAGAAAATGTT  
TTTGTTCCTGTCCTGAGGACTATTTATAGACAGCTCTAACATGATAAC  
CCTCACTATGTGGAGAACATTGACAGAGTAACATTTTTTTTGGGGAAGAA  
GAATCCTACAGGGTCATGTTCCCTTCTCCTGTGGAGTGGGGGGGGAAGGT  
GTATGGCCCCAGGGATGGCCATATTACTGACCCTCTACAGAGAGGGGCAA  
GGAAGTGGCAGTATGGTATTGCAGGATAAAGGCAGGTGGTTACCCACATT  
ACCTGCAAGGCTTTGATCTTTCTTCTGCCATTTCCACATTGGACATCTCT  
GCTGAGGAGAGAAAATGAACCACTCTTTCCCTTTGATAATGGGGGTTTA  
TTCTTTAGACAGAAGAGAGGAGTTATACAGCTCTGGAAACATCCCATTC  
TGATGGGGACTGTGTTTGCCCTTTAGAGGTCCCAAGCCCATAGAGGAGA  
TAAAGGGGAACAGAATTGTATAACTTGATATAATGATCCTAGATAGATGG  
AACTACAAGGGGCTCGAACCCAGAGAGAGGGGGGACTTTGCTT

>Sequence 527

AGGTACTCACAGTCACGCTCCTCTGAACCATCCTTGGGCTTCATGGGGTT  
GGCATTGAGGATCCCTACGACAGTCCCCTGCTCCGCTTCCAGAGCGCTT  
TGTGAACCTTCCCAAATAAGAACAAGGACACACATTGTGTGTCAGGTCACGA  
AGATCATTCAAGTTTCCATATGCTGAAGGTTTTTCCACTATTCACACTCTG  
TGGCGTAACCTTCTTCAATATAACCCCAAATGTCACCCAATCTATTTCTT  
CCAGCTTCTCTCTGGCCATCTTTCCCTTGATCTGAGACAGTCTGATCAGT  
TTT

>Sequence 528

AACATGGAGNACCA  
CCTCTCCCAACACCANGCCNAAACNNAACTTATGNANAAGAGNGAAANAG  
GACCCAAAAAGGACAAAAGGGNNCANNANAAAAACAAANNNCCAANAAN  
CCGGCCAAANANNGCAAAAGNNCCCCCATTTTTTTTTTTTGTGTGTG  
AAAAGGGGAAGAACCTAATGCACGCTTAACTATCTTAACAGGGTGGGAGTG  
CAAGAGATTGATGAGTCCAAATCTGACCAAGATGGTGATGTTGGATAAGA  
GAATTCTCTGGTTCCACCTTTAAGTGGCCAGCCCTTCTAGAGGTACCTG  
GGGAGCAACCCGGCTAGGTACATCAAACATG

>Sequence 529

ATTGTTTCAATCTTTTTCAAGCGTTTGGCACTCCCCGCGGTGGTCGGCCG  
AGGTACATTGTATACTGCAGTGTCTGTCTACATGGCATTGGACAGGACATA  
ATGTAAACATAAAAGTGCAATTGTTACACTTACATATGATAGTGAATGG  
CAACGTGACCAATTTTTGGTCTCAAGTTAAAATACCAAAAACTATTACAG  
TGTCTACTGGATTTATGTCTATATGACAAATCTTGATACTGCATCCCAAC  
ATTACTGGCGTGCTTTTTTGTGTTGCGTTTTGAGGGCCTTTTGGTGCTGCC  
TATTAATTACGGCGCTGGTTTTGGTFTGTGTTTAATACGCTTATTATAC  
TATTGGTGTTTACATTGGGGATTACAGAATACCTTCTCTTAGGGGGATAC  
CGACATTCACTTATTGGTGAGTTCCCCGATTCTCAATACTTTGATTGCC  
CACGG

>Sequence 530

AGGTACTTGGAAACCCATTTGGATTAATTAGAGGTCTGTCTGAAGGAGTT  
GAAGCTTTATTCTATGAACCTTCCAGGGTGCTGTTCAAGGCCCTGAAGA  
ATTTGCAGAGGGGTTAGTGATTGGAGTGAGAAGCCTCTTTGGACACACAG

Table 2

TAGGTGGTGCAGCAGGAGTTGTATCTCGAATCACCGGTTCTGTTGGGAAA  
GGTTTGGCAGCAATTACAATGGACAAGGAATATCAGCAAAAAAAAAAAAAA  
AAAAAAAAAAAAAGTACCTGCCCG

>Sequence 531

NTTACATCNGACNTTTCAANCNNCCTTTGNGANCTTTCTGCCCCCCCCAA  
GACAGNAATAAGGANTNNNAAAAACAATTTCCACCCGACAGTAGNCACC  
TTTACACNGAGGANAACGGGAACCTTTATTTAAAGGATATTGTCTCATTTT  
TAACACNCNGNAANCCANCCCTTCCCTGATAATAAATCACTGGAGAACAAA  
AGCGAATAACAGCAGGTCTCTCTTTTTTTATTCCAATTTCTTACATTTATT  
GCCAATGAAGAATTCAAATGCCAAGGGCCCTGCCTAGAAAGCCACTCTAA  
AGCAACAAAGAGGTCTGCCAATTCGCTTAAAAACAACCCCCCAAGAGAA  
AAAAAATTCAAAAACCCCTATTTAAATGAAACAAGCAAACTGGGGCCCCC  
CTAACCCCTTCCCTCAATATAAAGAGACCCCCCGCCCGGNNNCCAAATCA  
AAAAAAAACACACCTTTACAATCACTCATACTGAATCACACATATCTAAC  
CAATTACTTCATAATTACGACACACCACATATTCACCCACACAGGTGTAT  
ACCACTCATATAACCTCACTCATAAACACACATCAACACTAGACAGACTA  
CATAATCAACATCCACAACCTCATCACAACAAACACTTAAAAATGTTCAACA  
AATATAACTACCACACCTAATAACACCAAGCTTGTACTACACTCATATAAA  
CAAAATCTCGTAACACTCACTTATACTCTACAACACTCTCATTTCACTTA  
CACACAAACACCTCTTATTATCTCTCATATCAATCAATAATCATTCGACT  
ATCATACACAACGTATACTACTTCAATAGAACTANACTACCAATCTTCC  
ATAACTACACGCCG

>Sequence 532

CGAATGTCATTGAAAAGGTCTTCTCGCGCGTTGAGAACTTTCGGTGNNTN  
GGGAGNGNGATATTTTTTTTATTCAATTCGCGATTGACAGNNNAGATCAA  
AATGTTATTAACACTCTTAGAAGACTGGTTTGTTCATTTGACATTGGGAC  
GTGCACCAATTTTATTACAAAAATCAAAAAAGTAAAAATTATTACAATA  
TTTGACAGGTATAACCACTAGTTGCCTAGACAAAAGCTAATTTCTACAAA  
ATCAAAAACTTAATGCAGTTTTTATTAAGAGAGTCAAAATTCTCTCAGTTA  
ACTGGATATACATAGTGGTATATATCTTAAAGCAGAAAACCCCAAAAAAC  
AAAAACAAGGAAAAAAGAAAAATACATGTCAACAGTCAGTTAAATATTTTG  
ACCTGACAGTTTCTACAAATAGTGATTTTCACTACATATAAAGGAATCTG  
TTACATGTGGTAAAACTTCCAGAAACCAAGTAGGAAGTGTGGAATAAAAA  
CAATAAATTCAAACGCAGCCCCAGGCTGGGCCTGTTTTTCATGAAGCCCA  
AGACAGTGATCTTTATTATTAAGGAGGGACCACTGTGTCCACAACATAAAA  
ACCTTCAACCACATGGTGATCTGCAAAGCTTTATTTGAAAAAGACAAACA  
TTCTTTTCTTCACACAAATCAATGCAAGAAATTTTTTTAAGGCTTGATACC  
TTCCCGGGCCGGCCGCTTTTTTAAAAAACTTTAAAAAT

>Sequence 533

GGTGTAGGGGCACTACCGCGGNNGGTTTTTCGAAGNACGATCANNNCCCCA  
GCNGCNGGCENGCAAGANGAGCCGCTGCGAGACGGGTTTANTCGCENNCC  
CTACCCNNGANCNNGGCCNNACATNNNCGATTGNGNCACNGGGCGCCACC  
NCACGGGAGAAGGNCNNGCCGGNAAGGGNNNNACGAAGANCNGCANNNN  
GACCNGNNAGCGGANACCAGGATTTTTCCAATTTTTTTTCCACGTTTCC  
CACAGGGACACAAACAAGCTCACCCAACAAAGCCAACCGCCCCCTGCCCGC  
GTACCTGCCCCGTTCTT

>Sequence 534

GCGTTTGGAGAACACCGCGGNGGCTTTTCGGGGTCTCTACTCTCTGCAGA  
TGAAAAAGCAGCTGAAAGGAGTCGTAAGGCTGGACCAATAACCCATAAAAC  
TGAAGCCTGATTACTGGAGTGACAAACTATTGAAAGAAGCAGAAGCGTTT  
GCTTATTATCGCCGGACACACACTGCCAATGAGCGGCGGCGGTGGTGA  
AATGAGGGATCTCTTTGAGAAATTAAGATCACTATTTGGATTACTTCAT  
TCTTCCAAGGTTTCCAAAAGTCTCATTCTTACTCGAGCCTTCAGTGAAAT  
TCAGGGACTAACAGATCAGGCAGACAAATTGATAGGACAGAAAAATCTCC  
TGACTCGAAAACGGAATATTCTGATACGGAAGTATCGTCTCTTTCAGGT  
AAGACAGAAGAAGTGTCCTGAAGAAGCTAGAGTATATTTATGCAAAACA

Table 2

GCAAGCACTAGAGGC

&gt;Sequence 535

NGACTTTGAGGCAACTCNCGCGCNGGCGCTGCGNCGGNGNCACGACGCG  
CCNGGGCAAAGGGAAGNAACAGACACACGTTTGNNGGAAGGATGTAACC  
CGGGACCAGAGGCNCAGNNGGNGGAGAGANCCCNCGATTACCCACCAACC  
AGAACGNGGGCCCGCCAGAGGCNNGAACNGAGAGAAAAGANNCGGGGCGN  
CNAANGAAAAANANAGACANNNCACANAAGCCTTGTNCATTTTCTTTNCC  
GGCGTGACCGNCCACCGCAGAAACANNNCACAANAGGCNGCCGNNCAA  
CGGGGGGAGCAGCGACTGTCAGNNCNCNGGGAAGGGGNCAGCGCANCCG  
GCAGGGCNCNCCNCCCGGNCNNNGGAGAACAGGGCTCNCNCAGGG  
GCCCCAGGGACGGCCAGGCNGNCCAGCCAGGAAGGCCAAAAANCAAGAGG  
GAGANGNAGAAAGGNNGAAAAAAGAAAAAGGGGAGNNGGNGAANCNGNN  
GNNCCNCCCAACANNNGGANNGGCANAAAGGGNNNAGCANGNCCCN  
CCNNCCNCCCAACNNNGGNCNCCAATAAACAAAGAGAAACNCCAAAG  
GAANGGGGAGGGCCGAACCCACAGGCGGAGAACCCGGCACCCCCAAGCAN  
NCAAGAAAAAGGCGCCCCAAAAACAACAACCCCCCAAGGG

&gt;Sequence 536

GGCTTTGAGGCACTCCGCGGNGGCCCTCGNCGNGCTTCTCAGCCAGANAC  
GNACAGCCNGAGAGTNGCTGGNAGACTCTTTTANCANCCGCGCCACNA  
TCCATCCATCNGCTCATCTTTCTCCATCTGCTCAACAAACGCTAGAGAA  
TCAATCCTTGTGTCAGATACTGGGGCTGCCCTCAAGGAGCTTTTATAGAG  
TTCAGGGNACCTTTTTCGCTCTTTTT

&gt;Sequence 537

GGCTTTGNGCNACTCCGCGGNGGCCCTCGCAGTANNATCGNGGCCC

&gt;Sequence 538

GCGTTTTGGGGCACACCGCGGNGGCGTTCNGANGTACGATCNGCGCCCGC  
CAGAACAGGCCACAGCCCAGAGCCCTGCGGCNGCCTCATTACNCGGNACA  
AGCTNGAGCGGGGGGACAGGNCGGCGGGTTTGGAAACACTGGACTGGAT  
GGCACATGATCCAGAACTCCGCTCCGTTTGGCTTCCCAAGGATCCCACCA  
ACTCATTCTAATCAGCGATCACTGTTTTAATTTCTTTTTTNCCTATTAC  
TATNNCACAGATCAGGCCTACCTCATTGGCATAATTAAGAAAGTTGTCTCA  
AGTATATTTAGTGTTTATCATTTTACTATAGTTCTTCAAATGACTGACAT  
TCATCTTTTCCCTACCTCTAAATTCCTTTCTTTTTTCACATTATCTTTCTT  
GATTGCTTTTTAATAGAAAAACANACAAAGACATGGATTTACTGTGCATA  
TTAGCAGATCCATACTGGAAAAATGCATGGAGGTTTCATATACACCACTTA  
CAGAAAGAATAACTCAGAGTATAAAGTCGAAAAGAAAGAATCTGAAATAT  
TAGACTTGTCTGGAATAAGCGTACCTAGGATGATACCACTTCACTTAAT  
CAGATTTCCCTTTCCACTATTTAACAGGGCAATATAAAAAAACTGGTAGT  
TAAATACACAAGAGGCACTTATATTACTGGCTCCTCAACCCA

&gt;Sequence 539

CCGGGCAGGTACTTTCTTTTTTATAGTTTTTTTTGTGTTTTGTGATTTTTT  
TTTTTGTTTTTTGTTGTTTTGTGTTTTTTTCTTTTTTTTTTTGGTTCTT  
AGAAAATCTGAGACACGTGAGGCCAGACAAAGCAAGGCCGGGGCTGATGG  
CCTGGCTGCCTGGTGGTTGATGGTTTGTCTCCCCCTACCTTTTTTTTTGA  
GTTTATTCTGATTGATTTTTTTCTTGGTTTCTGGATAAACCCACCTCTG  
GGGACAGGATAATAAAACATGTAATATTTTAAAGAAGGAAAAAAAAAAAA  
AAAAAAAAAAGGCCCGGGCC

&gt;Sequence 540

CCGGGCAGGTACTTTATTTGCTAAAAAAATGCTAATGATATCCAAACCAT  
CAGCTACTTGTAATCTTTTTGCTGGTGGAGGGTTTTGTCTCAATTTTGGT  
GGCTGCTGACTGATCAGCGTGGTGGTTGCTGAAGGTTGGAGTGGTTGTGG  
CAATTTCTTAAATAAGACAACAGGCTGGGTATATTGCCTCATACCTGTA  
AATCCCAGCACTTTGGGAGGCTGAGGTGGGAGAATCTTTTGAGGCCAGGA  
GTTTAAGACCGGCCTGNGCAACATGGTGAGACCGTGTGTCTGCAGAAAAT  
GAAAAGAAATTGGCTGAGTGTGGTGGTGCATGCCTATACTACCATCTACT  
AGGGAGGGTAGGATGGAAGGTTTGCTTGAGCCAGGAATTCAAGGTTGTG

Table 2

CCACTGCACTCCAGCCTTGGATGGCAAAGTGAGATCCTGCCTCAAATTTA  
AAATAAATTAATTAACCANANAAAAAAAAAAAAAAAAANNAGGACCTCGG  
CCGTCTAAAACTAGGGATCCGCCGGCTGGAGGATTTAATATCAGCCTATT  
CCCCCGGGCCCCCTGGGGGGGGGCCCCCCCCCATTTTTTTCCTTTAAGG  
AGGGTAATTCCGCGCTCGCCAAAATATGGAAATACTTTTCCTTGAAAAA  
TTGTATCGCCCAAAN

>Sequence 541

GGACGGTCAGAACCGATACCACCGCGGGCGGCCTGATGTACTTTTTT  
TTTTTTTTTTTGTAAAGACACAAGTAGTGATATATCAACATCTGTT  
AACTCGTGACCGTTTCTTTTTTCAACTTCTTTTTCTTTTCAGTGCTTT  
CTTCTTCCATTACCTTTTCTGATTTCCACTTTCAGTTTCCATTCTGTCG  
CTATCTTCTGGTAGCCACAGCTCAGCTCCAATCTGCGAAATACGGCACTC  
TCTTTATTGACTACTGCTTCTCTCGGCCCCCGCGCTGGCCNACGGGAGTA  
CTGCCCCGGGCGGCGCT

>Sequence 542

GAGGGGTGACTCCCCGCGTGGCGGCCGCCGGGCGGTACAAAATGTAAAG  
ACGTTGTTTGTATTTGTAAAGGCTGGTGTATTGAGAGAGCATATCTCTTAT  
TCCTCACTTCCACCCCGTATTTGTAAATGACCATGATCAATGTTTTTA  
CTTTTTGTATAAATGGGGTGGGGTGGAGTGGGGGCTATTGACAGTCACCT  
GAGGTCTTTAGAGGACCAGCTATTGTATCACCTTGGATACTTGAAGTTTA  
ATGCTCAGTTGGGTGGGTGGCATTGACTTGGAGGCTGGCATGTTACC  
AGAGCCTGGGGCCCTGTATCTGGGCAGCCTTTGAGGATTACTTATGATAT  
TGAATGACAGTCTTAAGTGGCAACTCACGCCCAGCTCATGCCCTTTTTG  
CCTGGACATGTGCTATTTTATTCACTTATATGTGATTCACTTGTCAAGG  
TTAAACTTTCATACACGAATTGTATTGGGACAAAACGGCTGTTGGGGATT  
ATATATCCCTT

>Sequence 543

GGACACACCATGCACGCAAAACAAATTGCAATAATGTGATAAGTTCTTTA  
AAAGAGGTAAGAGCAACGTGCTTTGGGAGCAGAGAAGAGGGAGAAAGCAG  
CATCTTGCCTGGATGAGCCAGGGGACACAGAAGAGAAGCCCACTATCTCA  
TTTAATCTTTACAACCTCTCTTGCAAGGTCCCTGGTTGTGAAAATACATG  
AGATGAATCATGAAGGCCACTATCATCCTCCTTCTGCTTGACAAAGTTTC  
CTGGGCTGGACCGTTTCAACAGAGAGGCTTATTGACTTTATGCTAGAAG  
ATGAGGCTTCTGGGATAGGCCCAGAAAGTTCCTGATGACCGCGACTTCGAG  
CCCTCCCTATGCCCAGTGTGCCCTTCCGCTGTCAATGCCATCTTTAAAT  
GGTCCAATGTTCTGATTTGGGTCTGGACAAAGTGCCAAT

>Sequence 544

GAGAGGGTCCCGGGTGGCGGCCGAGGACACAATACTTACTTACAAATTTA  
ATACTGCTTCAAGGTATTTAATCTAAAATTTTACCAACTTTGATTTGTCT  
GGTTAGGATATTTGTTTTAGTGGATATGCTTTAATTCGGATCAATTACT  
GCAGTAAATCTCATCCCTAAGCATGAAATGTTGTCAACAAATACCCAGTT  
CCATTTAGTTATCAATTAGCCCAAATAAGAGATACAAAGTATAACAGTGA  
CCAACCTTGTACCTGCCCCGGCGCGCTCGACCACTGACATAGACTGAA  
AGCAAGAAGAGTGCTGTGTTTGTGCTATATCCCTCCAACACCTAAGGC  
AATGCATTTACATCTTGCTGAGAGCAGATAACTCAATACCTGGAAGTAG  
AAAATTAGAATCTAAAAGACGGAAGGCATCTAAAGAACAGTTCCCATCAT  
GCCACAGCTGAGAAATTGGAGACC

>Sequence 545

ATTTGTTATACCGCGTCAACCAATTTCCAACACAACTATACCGAAGCCCG  
GGAGAGACATTAAGAGTTGTAAGGCACTTGGGGGGTGTCTTATATGG  
AGGTGGAGGCTTAAACTTCAACATTTAAATTTTGGCGTTTGGCGGCCTTC  
ACATGCGCGCGCTTTTCCAGTTTCGGGGGAAAAACACTTGTTCGGT  
GGCACAGACTTGGCAATTTAAATTGAAATACGGGGCCCAAAACGGCCTC  
CCGGGGGAAGAAGGGCCGGGTTTTTGCCCGTAATTTGGGGGCCGGCTTC  
TTTTCCGGCTTTTCCCTTCGGCGTCAACTTTGAACTTTCCGCTTGTGCGC  
TTCGGGTTTCGGTTTACCGGCTTGCCGGGCCGAGGACCGGGTAATTTCAAGG

Tabl 2

CTTCG

&gt;Sequence 546

GCCCGGGCAGGTACCTGATGCAGGGAATTGAAGCCAGACCCAAAACGGGC  
AACCCAAATAGGATGGCCATCTGCCCCATTAATGCCAGCTTGCCAAGTGT  
AATTATTAACAGTGCCCCCTTTCACTCTCCAAAGAGTCCCTGTCCAGACA  
GGTAATTGTGAAAGTCGCCTTCAAAATGACTGGCCGGTAAGGAAAGTGGA  
GTGAGGGAAGCAGGGTAGGTGGAGGTGTGAAAGGGAGAAGGGCCTCATCT  
CAGGGTGGCTGGACCTGCACCAGCATCGGCCTGCATGAATGTGCTCCTAC  
TCTTGCCAGGCTGAGTATCAAGAGAAGCAAGAAATCTAGATAAAAATCC  
AAATCCAGAAACATCAGCGTTTTGAGGTTAACATGTTGGCAATTATTCAG  
CTTTATGAAATAAATATTATCTTTCTTTTTCTACCCGCTTGGGAGCCTGG  
CAAAATATGGGGGGGACCCCTGGCTTCTTTG

&gt;Sequence 547

AAACAAGTTCACATAATCATCAATTACAATAATAATTTTACAATCTCAT  
CTTACTATTTATATAAATATTCCTAATCTGTATAATTTTTATTATATTAT  
ATATTCTTATATTAATTTGAGGCCCGGGCGCCGAGTCAGGTAAGCCCTG  
GCTGCCTCCACCCACTCCCAGGGAGACCAAAAGCCTTCATACATCTCAAG  
TTGGGGGACAAAAAGGGGGAAGGGGGGGGCACGAAGGCTCATCATTCAAA  
ATAAAACAAAAATAAAAAAGTTATTAAGGGCGAAGAATAAAAAAAAATTTT  
GGCATTACATAATTTTACACCGAAAAGCAATGGCTTATCACCCCTCCCC  
TTGGTGTGGCACTTTGGAGATGAGGGACCCTGGGCCAATTNTNCTCCTTT  
AGAAGAGGAAAGTTGGGGGTGGGCTTTCTTAGTGAATGNGGCAAGGGGAG  
CTTTCCCTGTTTAAACAACCGCCATTCTCAATATTTTTGGGAAATGAAC  
CCTATTAAANNAAAAACACACAAAATGTGGCAAATCCTAAAGGTCCCTTC  
CGGCGCACCATTTGTGAAAACCTTTTGTGGGGGNAATTGTCTTCGCTCT  
CAAACCCGAACCTTGCTGTTCAACTCATTCACCGTTTTCCCAAGTTTTT  
TAAAAATTCCCTGGAGGTCCAAAGCCCCAAAAAATAAAAAAACCCAA  
AACCAAAAAACAAAAAACCACATTAAAAAGG

&gt;Sequence 548

GGCGCCGCAGGTACCCCTTTGTAATATCCTTTATATAAACAGTAAATGCT  
GTTTCCCTGAGTTCTGTGACCTGCTCTGGCAAATTAATCAAACCCAAGAA  
GGGGGTTGTGGGAACCCCAATTTATAGCTATTCAGTCAGAAAAAACAGG  
TTAGACAAATCTGGGGCTTGCGACTGGCATTGGAAGTGGGGGACAGTTGTG  
CGGGGCTCAGCCTTCAACCTGTGGGATCTGACGCTATCTCTGGGTAGATG  
AAGTAGAATTGAACTGGGGGACACCCAGCTGGTGTCCACTGCAGAATGAA  
TTGCTTGCTTGATGTCTAGGGAGGCCGAGAAATTATAGCAGGAGGTGAAA  
AGCACTTCTTATTAGCAGTGGCAAGAGAAAAATGAGAAGGAGCAAAAGCTG  
AAACTCCTGATAAACCAATCAGATCTCATGAGGCTCATTAACATAACAA  
GAATAGCATGGGAAAGACTGGC

&gt;Sequence 549

ACTTGATAGCGCGTGCGTGCCAGTGAACCTCTCAGCCCCGATGCCGA  
CCTGAACCTCACATGCGTCTAACGTCTATTGCATTCATGTCTGGTGAAAG  
AATCTCAATCATGAATGGGGTACCTAACAGACACCTATCCTCGCTGGCGA  
AAAGAAAAGAATGGGCTGCTCTCAGACCGTAGACCCTAAAAGGACCTGCG  
GTCTGTGCCCCCGTCCCTTGCCACACGGCCGACCAACAACCTACTGGAA  
CCCCCTGGCTGTATGAATACGATATCCATCTTATCAATCCCAATAACCCA  
CATGGGGGGCCTGGCCCCATGACTTGTGCTTTAGACAGGGTTACTGG  
CTCGCTTGCCAAAGGCATGGGCATAACTGGGTGCTGTGCTGAAAACACAT  
CCGCGTCCAATTTCCCAACCGTACTAACCGAGACCATATAGGGTGAACA  
CCGGCGTGCCTAACGCATGACCTGAACCACACTAATTGCATCATACTTAC  
TGCCCCCTCTGCAGTGTGAAAACCTGTCTGCCAGACCGATGCATGCAGC  
G

&gt;Sequence 550

ACGTGGTTACCGCCGTGCGTGCGGAGGACTACACGATGATCGGTGATTG  
TGCTCATGGGTACCCAGCTGCACCCATGAACTACGCCGAGAGACTGTTT  
AGGCTGTGAGGGACTCAACCGTTATACTGAATGGAGAGCGGGACACATA

Table 2

CTGGCTGGAAAGTATACTGCGGACAGTCCGGCCCTGCCCAACCACTCTGT  
GGAGAACCTACGCACTGCACGCCATGCCTGTTTCTACTCAAGCCTCAAG  
ACTTCTACCTTGATCTGCTTGCCTTCCTTGACCATCTACCTAGAATAAC  
CGAGTCCCAGCTCCCAACCTGGCATGAGCTTGGACAGGGTGGACCGCCAC  
CCTGCCTGAACCATGGAGACAGCCTCTGGGATTGGAGGCCAGAGGCCAGG  
GTCAGACCCAACACGGACTCCTAATTTGATGTCACAGACGCAATTAATAA  
GCTTATTTAATCCCGCCTGGGAACCTTAAATTATTGCGGGGCGCTCACTGC  
CCATTTTTTCAAAAAAAAAAACCTGCCCC

>Sequence 551

GTGATGACGACCGCGCGGCGGCCGAGGTACATTAGCAAAAACAGTGGACT  
TTGTGACCTTGAAAAAGTCATTTAACATCTCTGAACCCCTACTTTCTAAGT  
CTCTACAAGTAATATATAGTGGGTGAGGTGTTCTTTCTTTGTTCTGTTAC  
TCGGATGTGAAACTCTCCTTTTGTAGATGAAACCATTTGCGTAAGTAATAT  
AAAGACTTTTCCCTGTAGTTATCTTACAGACTGGAGAGAGTGCTAGTGAA  
TGCTTTTGTCTTCAATGCCCATCTCTTGGAATAATTGAAGGTGGAGTAGC  
AACCGGGCATTATATTATCTCTTGGAAGGACCTCAGCAATGGAGAATA  
TCCCATCATCACAACTGTCATCACTCTGCCGCACGTGATTGTGGAGAAT  
ATCCCTCTCCATGTGAATGCAGAATGAGATTCAATTTACAAAACGAAGCCA  
TTAGGGGGGAGCCTTTTTTTTTTAAACCAAGAGAAGTGGGGGCATCTTTCT  
CTGGAAGATCTGGCCTCATTGCGCCGTGTAATAAATCC

>Sequence 552

TTCTGTGCATTAATTTTATTTTTGTTATTGTGTTTAAATCGAAGATATTT  
TTTTTAAATTACGTTTCGTTAGTTATGTAATATATGGTAGTTGCGTGGTTT  
ATTATTTTTTTTTAGAGATGAGACGAGTGGCCGGCCCGCCGGGCAGGTACT  
ACAATGATTCTGAAGCACAGTGTATTACAGACAGATACAGTGAACCAAGTG  
CAATATGTAAGGATGAAAGAAGAAGATGACAAAGAAATCCAAGTAAAT  
GCCTTGCTTTTGCAAATGTTTTTATATTAAATCATAAGGGAAGGGAACCTA  
CTGCCTTAAATGTTATCAAAAGAGTTTTCTAACAAGGTAAATACCTTAGT  
TCTTAACATTTTTTTTCTTTATGTGTAGTGTTCATGCTACCTTGGTAG  
GAAACTTATTTACAAACCATATTTAAAGGCTAATTTAAATATAAATAATA  
TAAAGTGCTCTGAATAAAGCAGAAATATATTACAGTTCATTCCACAGAAA  
GGCATTCCAAACCACCCAAATGACCAAGGCATATATAGTATTTGGAGGAA  
TCAGGGGTTTGGAAGGAGTACGGAGGAAGAATGAAGGAAAATGCAACCAG  
CATGATTATAGGGGGGTTTCATTTAATAAAAGTTGAAGGCACAGG

>Sequence 553

GAGATGACCCGGGTGGCGGCCGAGGTACCCATCTCTGCCCATCACCGCTG  
GAATTTTGATGACCTATTGGAAAAGATCTGGGACTATCTGAAACTAGTGA  
GAATTTACACCAAACCCAAAGGCCAGTTACCAGATTACACATCCCCAGTG  
GTGCTTCCTTACTTCGAGCGGCCGCCCGGCAGGGACTTCACACCAAACA  
CTAGCTCAAGCACTGACGTTATTCTACAGGACTATGAACCTTCATATCCA  
CATTTACAGTCCGGACAGATAAAGGAAAACAACCCAAATCCAGGAGGCAA  
TATAAAAGGAAGAGAACAACACACATTTCATACACTCACACTTAAAAAT  
AGGGGAAGACCAACAGGGAACTTTCTGTTCTCTTCTGGATGTCTACTTAA  
AAATCCCATGTGGTACCT

>Sequence 554

GAGATGCCCGGGTGGCGGCCGAGGTACTCTTGAGATTGCTTTAAATTTTG  
TATTGAAACAACAATACATTTTGCACTGTAGTAATGGGAGCACTAACTCT  
TACAACAGTTAGTGAATCGTTTTAAAGAATCAGTTCAGTGTAGACATTTT  
GAAAAGATTGTTTCTGTGCTCTACAATAGCTTAGTGCAATGTGCACTTC  
TGTTTTACTTGCCATTTTCTGCTCTGTTTTCTCTGTGACATGAAGCAAC  
AGAACTGAGATCAAAGTTAAGATTATATCCTGTTTGTAGTATCAGATAT  
TTTTCTGTGTACATTTACATTCAAGTTGATAACACTGGTGGTTTCATTTT  
AATACAAATTTATGCTAGAGAACTGACATTTTCAGACATGGTCATATATAT  
GCTATTTGAATTCCTTTATCTTGATACAGATCTTGATTGTGAATCTCTGA  
TGATAGATGTGCAGCTAATTTGTCCCGAAACTCATGAAGAT

>Sequence 555

Table 2

TGAGAGATCCGGGTGGCGGCCGCCCCGGGCAGGTACAAGACCATGACACGC  
CCAAAACACTTCCTGCAGATGTTGTCGTTGGAAAACGTCTCTTACAGA  
AGCCAGTTGCAAGGACCTTGCTGCTGTCTTGGTTGTCAGCAAGAAGCTGA  
CACACCTGTGCTTGGCCAAAAACCCCATTTGGGGATACAGGGGTGAAGTTT  
CTGTGTGAGGGCTTGAGTTACCCTGATTGTAACTGCAGACCTTGGTGT  
ACAGCAATGCAGCATAACCAAGCTTGGCTGTAGATATCTCTCAGAGGCGC  
TCCAAGAAGCCTGCAGCCTCACAACCTGGACTTGAGTATCAACCAGATA  
GCTCGTGGATTGTGGATTCTCTGTCAGGCATTAGAGAATCCAACTGTAA  
CCTAAACACCTACGGTTGAAGACCTATGAACTAATTTGGAAATCAAAA  
ACTTTTGANGAAGTGAAAGAAAAGAATCCCAAGCTGACT

>Sequence 556

GAGACTGCCCCGGGTGGCGGCCGAGGTACGCGGGGGGGGAGTGGCACTCGC  
AGCTGCAGCAAATCTCAAAATAAAGAGGCAACGGCCTTTCTCTTCTCTC  
CATCTCTCTATAGCACACCTTTTATTCTTTTCTTTCTTTTAAAGCCTC  
ACGAAAGATTTTACTTGTAGATCAACTTTCAAAATGTAGGAAGTCAGAAT  
GGGTGACATCATCAGAAAAATATGTGGAGCTGATCACAAGAAGTGAAGAA  
CCCAGAGCACGAAAGCGGTTGTGACTCCTGGGCCAGGGAGTTGACAGCG  
TCTGGGCTTCAGAGGAGCCAGCGCCTCCGAGTTGTCTTGAAGTGAGGCTC  
TGCTGTAGTCCTGTTCTTCTGGCTCTAAGATCTGAATGTTGTGACCACTA  
ATTTGCTCTTCTCTGGAGGGTAACCCAGTTTGGTCCACAAGGCTTGCTG  
CCCAATCTTTTGAACAGTTGAACCAAGAATCTGAAGCTGATAT

>Sequence 557

TGAGATGCTCCGGGTGGCGGCCGAGGTACTGGATGTCAGGTCTGCGAAAC  
TTCTTAGATTTTGACCTCAGTCCATAAACCACACTATCACCTCGGCCATC  
ATATGTGTCTACTGTGGGGACAACCTGGAGTGAAAACCTCGGTTGCTGGCA  
GGTCCGTGGGAAAATCAGTGACCAGTTCATCAGATTCATCAGAATGGTGA  
GACTCATCAGACTGGTGAGAATCATCAGTGTCATCTACA

>Sequence 558

GGGATGTGTCTCCACCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTT  
TTTTTTTTTGTTTTGAGACGGAGTCTCCCTCTGTTGCCAGTCTGGAGTG  
CAGTGGCATGATCTTGGCTCACTGCAACCTCCATCTCCTGGGCTCAAGCG  
ATTCTCCTGACTCAGCCTCCCAAGTAGCTGGGATTACAGGTGCCTGCCAC  
CATGTCCGGCTAATTTTGTATTTTGTAAAGACGGGGTTTCACCATAT  
TGGTCAGGCTGCTCTCGAAATCCTGACCTCGTAATCCGCCCCCTCGGCC  
TCCCAAAGTGCTGGGATTACAGGCCCGAGCCACCGCACCTGGCCTGTATT  
CCCGCGTACCTGCCCG

>Sequence 559

TAGATGACTCCGGGTGGCGGCCGCCCCGGGCAGGTACGCGGGGGGTGCCTG  
GCTCCGTTTCTGCTTTTGGTTCTTACAGTAGTCGGCGTAGGCCTTAGGT  
GGGTTCTGTCGCCTTCTACCTCGCTGTTTCGGTTTTCTGGCTCCTCGGC  
CCTTTTCTCCCTGTTGCAGCTGGGAGCGGACGAAGCGCGAAGCTGGGAT  
TTTTTACTGTCTCCTGAAGAATTTAACACAAACATGGATATCAGACCAAA  
TCATACAATTTATATCAACAATATGAATGACAAAATTAAGGAAGAAT  
TGAAGAGATCCCTATATGCCCTGTTTCTCAATTTGGTCATGTGGTGGAC  
ATTGTGGCTTTAAAGACCCTTGAAGAAGAGGGGGGCAGGGCCTTTTGGCC  
ATAATTTAAGGGAACGGGGCTATTCCACCAAAAGGCCTTGGAGGACAGGC  
TACAAGGGATTTCCCATTTTTAGGGGAAACCCCAAGGGGGGAAA

>Sequence 560

GCGATGTGACTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTT  
TTTTTTTTTGATCGGCAAGCGACGCTTAGACAGGCGTAGCCCCGGGAGGA  
ACCCGGGGCCGCAAGTGCCTTCGAAGTGTGATGATCAATGTGTCCTGCA  
ATTACATTAATCTCGCAGCTAGCTTGCCTTCTTATCGACGCACGAGCC  
GAGTGATCCACCGCTAAGAGTCGCCCCGGGTCCCTGGCCCCGGG

>Sequence 561

TAGCTACTTTACGCTGTCTGTACATTNTGTCGTATACATGAGTACTGTCA  
TAATACTTTTGACACTTGCTGTCTCTAGTTTCTAATATTTATATTATAAC



Table 2

ATGACATTGATCTATAATTTTGTCTTTTATTTTANANANATATTTGCGAT  
GGCTCCCCGGGTGGCGGGCGAGGTACCATGTGGGAAGCGCTGTGAAGAGT  
TGTTGCCTTTCAAGATATACCCAAATTTCCAGTTCCAGCCCGTGTCTATTA  
AAACTCCGCTGGCGTGAAGATGACGTCCTTAGCCAGCAGCTGCAACGA  
CTCGCCCTCCCTCAAAGGGATGCCAGCCTTTTATTTAGAGATGAAGTTGC  
TTCTTTGTTATTTGACCCTAAGGAAGCGGCCACAATTGACAGGGACACCG  
TCTTCGCCATTGGTGAGCCATCTTTAACTTAGAAAAGCTCTTGGAAGCG  
TTTGTCTTCTGGATGTTACTGTTTTTTTTTCCCCCTGTTTTCTCTTCTG  
TACCCGTGCTCTTCTTAACAGTTTCTGCATGTTGATGTATATTTTCAAG  
GGAAAGAGATCATTAACACCATGTGCTTGGTGCTTGAAATGTTTATTAAT  
TTTGAGCGGCCGCGCTCTGGAACCTGGGGGCCCACTGGC

>Sequence 562

AGAAACATTGTGAAGCAAATAGGGCCAGTCAAAATGGCCCATTTGATACCG  
TTAAAAAAGGGCCGGCGTTTGCTGGGCGTTTTTTTTTCCAATAGGGCTCCC  
TGCCTCCCCCTGAACGTAGTCAATCAACTAAAAAATTCGGACCGCCTCAA  
AGGTTCAAGTAGGGTGTGCCGAAAAACCCCGTACCAGGGAACATTTTAAA  
TGGATACCCAGGGCGGTTTTCCCCCTTGGAAGCTTCCCTTCGTTGCG  
GCTTCTCCCTTGTTTCCGAACCCCTTGCCCGGCTTTACCCGGAATAACC  
CTGTTCCCGGCTTTTTTCTCCATTTTCGGGGAAGCCTTGGGCGGCTTT  
TCTTCATTAGCCTCACG

>Sequence 563

GCNNAGCCCCGGGNGATCCNATCTAGNTTNCNAGNAGNCNNGGCCGNN  
CCCCGGGCCAGNGTAACNCGCGGNNGGGCGCCGGGAAAGGTTGGGAAAA  
AGAAAAAAGGGTTTTCTTAAAGTTGGGGCTTTGGGAGGGGGTAATTTCC  
CCCCAAAAGGAGAGACCGGGGGGCCCCGGGCCAAAACGCGGGGGGGGGG  
GGGGGAAACCTCCCAAATTTGCGCCCCCTAATAGAGGGGGGGCGGTAT  
TTAACCCGGCCGCTTAATGGGGCCCCGGGTTTTTAAAAACGGTGGAAC  
TGGGAAAAAACCTGGGGGGGTTCCCAAATTAAAAAGGCCTTTGGGAAG  
AAATACCCCTCTTTTTGCGGGGTGGGGGGAATAAAAAAAGGGGCC  
CCCAAAAAGGCGCTTTTACAAAAAATTTGGCCCCCTCTTAATTGGA  
GAAGGGGGGGCCCCCTTTTTTGGGCGGAATATAAAAAGGGCGGGGGG  
GGGGGGTGGGGTTTTTCCCCAACCGGGAGGGCGCGTTATTTTTTTGTG  
GGGGGGCTTATTACGGAGCCTTTTNTNNNNGTGTTTTTTTCCCCCTCT  
TTTTTTTGTGGAGGGAGC

>Sequence 564

AGGTACCAAGTAGGATAATTACTACTGCCAACACACACATGCACGCATGC  
ACACACACACAGATGTATGCACGCACACACTCTCACTCCTAGACTG  
CTAAAAGCAAAAAAAAAAAAAAAAAAAAAAGTCCCTGGCCCGGGCG

>Sequence 565

NGGATTGGAGAATCCGCGNGGCGGTTGGNNGCAATTAAGACCTCNGA  
CCNCGGCACTAAGCANCGNCACCCTGAANAGANTGTTTCATCCNNCCCTCC  
CCNNGNAGAAACCNCGCGCCANGAGTTTCAAGNNGGAGGAAGAAGCGACT  
GCGCAAGCNGAAGCGCAAAAGAAGAAAGANGAGGCAGAGGNCCAAGNAA  
CCGCGNAGCNGNNGCACCCGNGGAGGCCTTTGTTTTTTAGGTTTTGAANGC  
CAGACGCTCCTTATGAAAGTACCAAGAAGTGGGAAGCGGGGTGAGCTGCT  
GAAGATTTTTGGTATCGACAGGGATGCCATTGCACAAGCTGTGAGGGGCC  
TCATCACCAAGGCCTAGGGCGGGTATGAAGTGTGGGGCGGGGTCTATAC  
ATTCTTGAGATTCTGGGAAAGGGGCTCAAAGATGT

>Sequence 566 -

TCGAGTACGCGGGGGGGGACTGGAGGACCTGTCTGGTTATTATACAGACG  
CATACTGGAGGTGGGATCCACACAGCTCAGAACAGCTGGATCTTGCTCA  
GTCTCTGCCAGGGGAAGATTCTTGAGGAGGCCCTGCAGCGACATGGAG  
GGAGCTGCTTTGCTGAGAGTCTCTGTCCTCTGCATCTGGATGAGTGCAT  
TTTCTTTGTGTGGGAGTGAGGGCAGAGGAAGCTGGAGCGAGGGTGCAAC  
AAAACGTTCCAAGTGGGACAGATACTGGAGATCCTCAAAGTAAGCCCCTC  
GGTGACTGGGCTGCTGGCACCATGGACCCAGAGAGCAGTATCTTTATTGA

Tabl 2

GGATGCCATTAAGTATTTCAAGGAAAAAGTGAGCACACAGAATCTGCTAC  
TCCTGCTGACTG  
>Sequence 567  
TGGATTGGGGCCCTNCGCGGNGGCGGTTGANGGCNTTTCGNNGCCCCNCAC  
CANNNNAAGGNCGAGGGNNCCCTGGANGANTGGTTANTCGGCCCCCCCC  
CGGGCNCNGCAGGCCGNCANNANCGTTGANGCNCGCGGGGCGCNGCCCC  
TGAAAACCCCGNACCCGCGGGCGGCTGCNCNAGAACNAGNGGANCCCC  
CGGGCGGCAGGAANNCGAGAGCAAGTTTTCTTTTTTGGTTTTCCCGAGG  
GGGGGCCCTTTTCAAAAAAAAATGTCCCCCAGGGAGGGGGGAGGGCGCG  
CTTTTTTTTACAACGGCACAGCCGNNCCCCGGGGGAAANNNGGAACCGC  
GCACAAANCCACACAACAGACGAGCCGGGAGCACAAAGGGGAAAGCCCCG  
GGGGGCCAACGAGGGAGCCAACCCCCACCAAGGG  
>Sequence 568  
GCGATTGGAGCTACACCGCGGNGGCGGTTTCGGGCGAGACNNCTCTTGNC  
CATCTTCTCCCGCTGCTGAAATTTNCTTGGCGGGCGCTTTAACCCGAGGA  
CCCTCCCCCGCGTACGCTGGATAGCCTTTTTTCCAGAAAGAGAGAGTA  
GCGCGAGCACAGCTAAGGCCACGGAGCGAGACATCTCGGCCCGAATGCTG  
TCAGCTTCAGGAATCCCCGCGTACCTGCCCTTTCTTTTTT  
>Sequence 569  
GCGCTTTGGAGCNACTCCCGCGGNNGGCGGCTCGAGNGACAATTACAACC  
CCGNNNAANCCAAGGGNNNAGGNNANCAAGCTGCTGNGATNNACTAATAC  
ACAAACCCCGAGACAGCAGNAAGGNCAGAAGAACCTTGGAGAACAGCAGAA  
GCAACACCGCAGAACNCNGAAGGCNGAGAACACAAGNCAAANACANNNA  
CNNAAAAACAACGCNGAGAGAACACNGGGAAAAAATTTCTTTTTTTAGATG  
TCCACAAAAAAGGACATGTAAAGGGGAAGGTCAAGTTGTTGAGACAGCTA  
CTTTATTCTTGGGATGACTGNGGAGGTGGTGGAGATGAGCCTTGTTGCC  
AGATTTCCGTTTCGTAGTTCACGAGTCGTTGACCCACAAGGTACCTGCCCG  
>Sequence 570  
GCGATCGGAGCAACCCGCGGNGGCGGTTGANGNCGCGACAGCCGANGAAA  
GAAAAAGGGAGCCAGGCCATTTCCAGCCGATTAAANCCGNGGGGGGAA  
CGGGNNNAAAAACCGGGGAAAAATTTAAACCCAAGAGGGGAAAAACCCAGAA  
AGGCCANGGGGCGGGGAAACCCAACCCAGGGGGGAAAAAACCCGGCCC  
CCCCGAAAAAACCCCCCCCCCCCCCTTTTTAATTTTTTGGGGGGGGGGCCCC  
CCAAAAAACCCCCCCCCCGGGGGGAAAAAACCTCCAAAAAAAACCC  
CCCCCCCCCCCCCTTTTTTGGGGGGGGGAAAAAAAACCCCAAGGGG  
GGCCCCCCCCG  
>Sequence 571  
NGGCTAGGAGCACACCGCGGGCGCTGGGGCCAAACAACCTGTCTGTAAGAG  
GGACCTCTCATGTTACAGGCTTTGACAACCCAGAATCAAACCTGGAGAAC  
ATTCCGAAGCCGTTCTTATAAGTGTCTCCTCTCTACCTGGGCTGAAATG  
GAATGTGCAATGTAGCCCAGCCTGGTCTTGGGTGTTGCCAGTTGATTG  
ATGACTGGGAGCCAAAGTGGCATTTCCTTTGACCTAAACGGGCGATGATG  
AAATAAATCGAGCGGCCCGCCCGGCGAGGTACATCTGTGAATGTGAATGCC  
AAAGCGAAGGCATCCCTGAAAGTCCCAAGTGTCATGAAGGAAATGGGACA  
TTTGAGTGTGGCGCGTGCAGGTGCAATGAAGGGCGTGTGGTAGACATTG  
TGAATGCAGCACAGATGAAGTTAACAG  
>Sequence 572  
GGCGTTTTGNGNCNACACCAGCGGNNNGCGTTTCGNTGAGNGATCNGNCG  
GCCGNGNNNCNACCCGCGNCCNNCCNTTACTGNGGGCTTTGAGGCNCC  
CGCCACGGAAAAAGNNGGCCCGAGCCAGAGCTTTTGCAGCCCNNGNGAG  
GGCGNGGCCCGAGGCAANGGAAAGNNGGGANGNAAAACGAAGNACAGGAGC  
AGANNNGAAGAANNACAAAGNGAANNNGGNGCTTTTCAGTTTTTTAGAGAG  
TGACCACANAGCCTCTACTTCTCTGATAAAAAATGTTGGGAAAAACCTG  
AATTAAGGAAGACTCATGCAACTTGTTTTCTGGCAATGAAGCAGCAAA  
TTAGAAAAATGAGTCCAAACTATTGTCATTAAACACTGATAAACTTTATG  
TCA

Table 2

## &gt;Sequence 573

CCCCAGAAAAAAAAAAGGCCCTGGGGCCACCCAGANAGAACTCAGGG  
GACAACCACGCGGCGGCGGCCCGGGCAGGAACANAGCCCTCAGGGGG  
GNCGGAAACCCCGCANAGGACAGGACANAAAGGAAAACACAAAAGCGCAA  
GCCGGACACACACAGGACAGCGAAGGGCAACGAGACCCAACGCCGGAC  
ACAAGCCAAAACACCAAAAACGAGAACAGAGACCACGGGACGGAAGCCAA  
AACGACAAAGGGGGAGACTGCAGCCACAACAAGACGGGCGGGCTCGGCGC  
CCGCAAAGGAGCGCCGCGCGCGCGCCGAAGAACACGCCCGCGCCCCC  
GCCGGCGGCGACACACAGCAAAAACAACACCGGCACGCACCAAGGGGG  
AGAAACAGCCGCCCGCGGAGACGGGGGCGCCCCGCACACCAAAACACC  
AAGACAG

## &gt;Sequence 574

## &gt;Sequence 575

## &gt;Sequence 576

NGCGATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGTAGGAGCC  
TCTCTCCCTACTGCTGTACACAAGACCCTGAGACTGACCTGCAGGACGA  
AACCATGAAGAGCCTGATCCTTCTTGCCATCC

## &gt;Sequence 577

CCGGGCAGGTACAGAGACCTCCTTACTTACCCCCCTTCTCCTTCGGCTGG  
AGCTCGGCGAGCGAGAGGGCGGCGCTGGCGTTGGAGAGCGACGGCGGCCCC  
CGCGTAAGCAGTGGTAACAACGCAGAGTAACGCGGGAATGAAGAATCTTA  
GGCGGGTGACCCAGTTTCCACCATGATTAAGGGTCTTACGGAATAAAG  
GATGATGTCTTCTTAGTGTTCTTGCATTTTGGGACAGAATGGAATCTC  
AGACCTTGTGAAGGTGACTCTGACTTCTGAGGAAGAGGCCCGTTGAAGA  
AGAGTGCAGATACACTTTGGGGGATCCAAAAGGAGCTGCAATTTTAAAGT  
CTTCTGATGTCATATCATTTCACTGTCTAGGCTACAACC

## &gt;Sequence 578

GCGATTGGAGCTCCACGCGGTGGCCCCGCCGGGCAGGTACCTCACAACGA  
GTTTCAGTCAGTAGCAGAAGGATCTTCTCTCTTGTTCCTGATGATTTCAAG  
GTCCTCACAGTCCTGATAATCTGGTTCTTCCCGAAACTCCCAAATATCTA  
TGGAGAGCTGTTCTAGCTTTTGCACAGGGAACCAAGTGGACAGAGGTATCA  
TTAAACATGTCCATGTATTGCGAAGTCTGAGGAAACTCAAGCTCCTCCAG  
TCCTTTTAAATCTTTGCAATGTAGGGATAATTTTCTGCAGAAATCCTTG  
CCAACAACCTCTCCTCAAGTCCTTTGAACTGTTCCCAATGATGACCATC  
TTAGAAAGGGCATCTACTGACCAGTTACTCCATAAAAGATTGTTGTACCT  
CGGCCGCTCTAGAN

## &gt;Sequence 579

NGGAATTGGAGCTTACTGCGGTGGCGGCCGAGGTACTTTGGACAGTGAGG  
GTTTCGATTCATTTTAGGGGTAGGGTTGGGGGTGGGAGTGGGAGTGTGGGT  
TGGCAGGAGGAAGAATGAGTCTACTTTGGAGACAATTAAGTCATGGTACT  
TTTTTTTTTTTTTTTTTTTTTTTTTTGGCTACATAGACATCTTCTCATG  
TATTGTTACTAGAACAACTTGTATAGGGTTTTATGGTTTGGGGAAAACAT  
TTTTAAAAAATGGACTTATCTCTATTATACAGAGTTATAATATAAAATG  
ATTTAAAGGCTATATTTTCAGCATGTAGGTAGCTACACTGTAATCCTGT  
TGAAGAACTTTCTATTTAAGCTTATAGGATGAAAATATATAATTAAAG  
TCTTCTGATCATAGCTT

## &gt;Sequence 580

AGGTACCATCCAAATGCTTCCCTGGTCTTGATGATCTCTTCCAGAGTCGA  
TCTGAGTGGCCTTTTCTGCACCTCCCTTCTTCTCTTTGAATGGAATT  
AAACCCAATTTGGAACAACATTGACCCAGTCAAAAAGCTTCTAATGGTTT  
CTTTTCTTCTCCTCCAGTTTTAGTTTGCTTTTATTAAGAAAAAGAAAATAGT  
GCATGGCCATAGCTCCTTCAGTTCTCTTATTGCAGACTAACCATCAGGAT  
GGTATCAAAGCACAAATACTTTGGAGGGGAATGCGTTGAACTGGGGCAAG  
TACCTGCCCCG

## &gt;Sequence 581

CACTCGGCACTCTCGGTTCTCTGCTATTTTAATTGTATTTGTATAATAA

Table 2

CAATACGTATTTTACTACATTCTTTAATGTACATAGATATCATATACTT  
ATTTATTTCATTAANTTATATTATGGTTTAGTAGTGAGCTC

>Sequence 582

GTTTTTAGAGATGAGCTCACCGCGGTGGCGGCCGAGGTACCAAATTGTAA  
AATACTCGAAGGCCTTCAGGAACCTGTGACTGATTACATAAAATACCAGA  
ACCTATTTTGGATGAGGTAAAAGACATGTGCTCATCTCCAATTACAGTTT  
CAAGCTGCTGTCGGCCAACCCTATCAGCGGGGAGGCCACAAAGCATAAGA  
ATTCTTTTGGGATTACACTGACATCAATAATTTTATCACTATCTTCCAT  
TACACTATTGTGCACATTAAGCCAATTTTCTGATCATCACATACTTGTG  
TAACTGCTGCTGGGGGCATATCTAAGCTTTACGT

>Sequence 583

GCGCTAGGAGTACTCGCGGNGCGGTTAGGGCTCTACCGGACCNCNGACC  
CTCCNGGAACCGAAAAGGCTGGNGCGGGTTTCANCCAGGNCNCACTGANN  
GNCGGACCACANGAGNCAAACCTTAGGNCNAGCNCAGAGAAAGCCCCGAGAC  
AGCAGGGCAAAAGCGGCNNGCGCCCCGNNGGAACANCGCCAGCCNCCTC  
ANANCCANNCCAGACACAAGCTTTCAATTTTTTTTCAAAATCCGACATCTA  
CTCCAATACTACATGATACACTAAAGTGCTTGCTGTGTGGGCTTCCAGGGGA  
GATGAAATGGTAAGTCGGGCTGCAGCATCTCTGTTCAAAATATACACCAA  
TTTCTGTTTCTCAATGGCACTAATCATAACGGCTCGCCCTTTGGGATCCA  
CAGCTAAGAAGCTGGCCAGGAACGA

>Sequence 584

GCGATTGGAGCTACCCGCGGTGGCGGCTGAGGGACATTACGTATTGGTTA  
TACAACATTTGTTTAATAAATGCAACTAACAAAGCTACACAAGACTTAGA  
TATTGAAGCAGAAAAGGTGGTTTTACAGTCCCTGCATTAACCTCTAATTC  
TTACTACCCTGGCCAAGAAAGCATTTTCACCTCCTGCGCTTTCCTTCCTG  
TGTGCTTGTGGTTGGTTCTTTCTTCTCAGGCTTTCTTATTCTGATGCTGA  
GATAGTTCTGTTCCTTAGCAACTTGGGACAGTGACACAGGGTTTGTTC  
GTACAAGCAGGTTATCCAAGAGGCATCCATACCCTGGGTTTCTCTCCAAC  
CATAAGGAAAATTGATGCAGCTGTTTCTGACAAGGAAAAGAAGAAAACAT  
ACTTCTTTGCGCGGACAAATACTGGC

>Sequence 585

TAGTACCTGGGCCACCAAACACAGCTGGACTCAATATATGGGGAAGGTAA  
GTGTCTCAGTTTTTGGAGAGAGATTACCCTCTTCCAAAAGAGTGCTTGA  
TTCTGGTAGTCCAAGCTGTCTCCGTCTGGTGGCACCCCAATTTCCCCTGC  
CTAGACCCACCTCC

>Sequence 586

GCGTTTGNNGNCACTCCGCGGNGGNCCTTGNNNGNCTGTACTNGCACCN  
AGGAGACGCNNGNAGNCCNNGNATTTTNNNGNNGATTAGGCTTGAAGACG  
CGGNNNANGCNNNNCAGAGNCACANCAATTTTGGNCGAAANAGGAGCCCA  
CACAGAGGAAGGNGAGGAGGCCNCGAGGNACCNGCGCCGCNCAAGAACN  
AGNGGANCCCCGGGCGGCAGGAATTTTAANCTTTCTTAGGGGTTCGNG  
GACNCCCCGGGGGAGACGGNACCCAGCCCCCGCNCCCAGGGAGGGN  
NAACNGCGCGCNNGGCGNAANCANGGGCANAGCCGGNNCCCAGGGGAAAA  
NGNNANCCGCNCAANNCCACACAACAAACGAGCCGGGAGCA

>Sequence 587

GCGATTGGAGCTCCCCGCGGTGGCGGTTCTGGGTACAGCTTTAAAGCATC  
ATAATGACTAATTATAGGTGAATAATTTTACAGACAGTCTATATTCTAGG  
AGGCAGCTGTAGGCGTTTTAATTGGAATAAGCATTCTGAGATAATGATA  
ATAGCAGTGTAGAAAAATGAAGCTAAAAAAATTCAAAGTGTTGAGAATCC  
TCTGTCTTCTGGGATTTTATTTTAAATCATCTCTCCACAGAGAACAA  
GCAGNACTTTNTTTTTTTTTTTTTTTTTTGGGGTTTATTTTATGCACAA  
AGAGCCATCGTGGTTTTTATTAGGTAGATGCCCTGGATAATCCTTTCAA  
GGAAGATCACTTAGTCCAACCTTAATGAAACCAATATCCTTCGCATACT

>Sequence 588

GCGTTTGGAGCACCCGCGGNGCGGTTCTGGCCGGGCTACTCAGCCANGAGG  
GAAACCGAAGAGCCAGANNGTAAAGNGCAGATTAAGACNAGANCGCCGAG

Table 2

GNNCGGGACAAGAACCGNGAAGGGTTGATGGACAGGGAAGAGACCAACGA  
CTGGATCCTTCCCTCAGACTATGATCATGCAGAGGCAGAAGCCAGGCACC  
TGGTCTATGAATCAGACCAAAATCAAGGTTTTTTTGGCTGTCCAAGGAGGAG  
ATCGCTGACAAGTATGACTTATTTGTTGGCAGCCAGGCCGAGATTTTGG  
GGAGGCCTTAGTACCT

>Sequence 589

GCGTTTGGAGCACACCGCGGNGGCGTTTCNGNGGACTATCATCNGNCCGCA  
GANCAGACTNGCAGCCGACCAAGTTATGNGGGGATTTAGACAAAANCCCC  
GANNNCACCNNTNCCACTNTNNGAGGACTTTGTCCAGGGTCTCTGGTCTAC  
CGATGTCAAAGCAAATCAGCACAGCATCCGAATCAGGGTAAGAGAGGGGG  
CGGACATTGTATAGTAAGGAGAATCCGAATTTTTCCACAGGCTCAACTC  
TATTCTTTGTGTGTCGATTTCAAACTGGCCGTGTAATTCTCAAACACTG  
TAGGAACGTAATTCTCGGGGAAGCAGTCCTTGGCGAAGACATGGAGCAGC  
GCAGTTTTTCCACACTGACTGTCTCCCACCACAACATATCTTGCAT

>Sequence 590

GCGTTAGNGNCNACACCGCGGNGGNNCTCGNNGTACNATCTGNGGGACAG  
CANGCNACNGNCNAGAGCNGNNTTAANNNGNCNAGTTTAGACTNGCCCCC  
CGAACGCCGANCAACNCNGAGACCCACCTTTTTCANAAACAAAAGGCCCA  
AGCCGGAACACNGCCNGGACCNNGACANNNGGACNANNNCNGNNGNNN  
AANNNGGCCGAGNGAACAACCATTTANATTTTTTCGTGTTTGNNNAGC  
CCGCGAANNACTAAAAAAAAAAAAACCCCAAAAAAGGGGGGGGAAAGNA  
CCCGCCTTTTT

>Sequence 591

GCGATTGGAGCTCCACGCGGTGGCGGTGCGCCGGCAGGTAAGTACTCAGGTTTT  
ATCTCTGCACTCCAAGTAGGATGAATAGATAAGAGCAAAGGCTCATGTTT  
GCCAAGTCTGTCTTTTTGTAACAAAAAACCCAGCAGCTTTATCAAGCAGA  
ATTCCACCTGTATTTCTTAACCTTGCCAGAGCTGAGTCTCATGGCCACCCT  
TAGCAGGAGTTGGGGAGGTATTTTAAACAAGGCACATTATCATCTCCCCC  
ACCCAAAGTGGAGCTATTGCTAATGAAAAAGATACAATGAGATGTTTATG  
AAATTATCTGTAGCTATTAATGTCAGGTTTTTGAAATTTACTGACCTGGA  
AGAATACTCATAATGCAATGTCAAGTGAGAAGCAGGACAAAGAACATTG  
CAATACAGTT

>Sequence 592

TGGAGTATGCGAATGAGCTGCACCGCGGTGGCGGCCGAGGTAAGTACTTTTTT  
TTTTTTTTTTTTTTTTTGGCCAGCAATTAATAAATTTTTTTTTTGAAA  
GACTGGATTTTGCCATGTTGTCCAGGCTGGTCTGGGATTCTGGCCCTCAA  
GCAATTCCTCCTCCTCGGCCTCCCTAAGTGCTGGGATTACAGGCATGAGC  
CACCATACTGGCCACTTCTTCACTTCTTGGCTTTGCGTCCCCGATTT  
AAAATTGGTGAGAAAGTTCCTTCGGCTGGGCTGAGGACCCGAGGTCTGGG  
TGGATCTCATGGAGAGAGGGCGAGGACAGGGGACCGGTCTCCCAAAGGAG  
TCCTCCTGTCTTAAGTCTTTGGCCCAAAGTGTGCGAAGGGGCCCATAGA  
GGGGGGGCCACCCACGTTTTGTGGGACAAAAATGTTTTTTTTTTGGG  
GCCCCCGGTTCTATTAAAAAGGGGAGAGCCCTCGTTTTCTTTCCGGGG  
GGGCTTTTTTATTATAAGTATATATGAGTCTTCCCCTACCCACGGTCGA  
TCCATCTATATATATTTTCAATTTTTTCCCCCCT

>Sequence 593

GGGAAACATGGCAAAGATTGTCCTGGGGGAAAAAATTGTTCCCGCAAAA  
TCCCCAAAAAACTAGCCGGGGGGAAAAAAGTAAAAAAGCCGGGCGCT  
CCAGGGGGCCACCCACACCCCTTTTTGGGGGGGGGGCCCCCCCCCTCCCCA  
CTCGGGGGACCCCTTTTTGTTCCCCCTTCTAATAGAGTCCCCCCCCCGG  
GGGGGGGGGGGGGAANAAAAATTTCTTTTCTTCAATTAAAAAAGGGGG  
GGGGGGGGGGGGG

>Sequence 594

TGTAGAGGATTGACGGGGGCGCCGGGTCAGGTGCGATTCTGGATGACAAA  
GAAGATGCTTACTTCACAGAAATTCGAAATTTCAATTGGGAACAGCAACCA  
TGGCAGCCAATCTCCAGGAATGTGGAGGAGAGAATGAATGGCAGTCATT

Table 2

TTAAAGATGAAAAGGCTTTGTGCGAGCGGCCGCCCGGGCAGGTACTTNTT  
TTTTTTTTTTTTTTTTTTAAGGAGCTTTTATGTTTTAGTAATCTTAAC  
ATAACTTAAAAAAGAGAGGGGAAATGACATCTGGAGATCTAGGTATGTG  
GCCCATTGCAATTGAGCACATTTCTTGGGTCTGTTTCTCTATCTCTAAGG  
GCAGTCTCAAAAACCCAGCTCAAAAATACGACACTAACATGATGAACATGC  
ATGAGCTTTGAAAAGTGCTCTGTAGTCTTATGATGATCTAGAAGAGCACT  
GTCCAATAGAACTTTCTGTGATGATGAAAAGATTCTACTTTTGACCTATT  
CAATANGGTAACCACTTATCA

&gt;Sequence 595

ACTTTTTACTCTATAGTACTCTTACTTGTTTATTACTAATCTTATTT  
TATATTAATTATATTTATGTAAATTTATAATACATATTTATAATTTTTAT  
TATATTTTTTATTAGAGCGAGCTCACGGGTGGCGGCCCGGGCAGGAC  
ATCGTCACCATAGTAAGAATGTGTTGGTCGACACAGACTAGAATGGTCTA  
ATAACTAGGTATAGGTTAATTCCTTATGTGCACCCTTGACAATATGAGGAA  
ATGTAATACAAGCGATACACAATTTTGAAGTGCAATGGCTTATTAAGA  
GTTAATCAAAGATAATTTCTTTTATAAAACCTAAAAATAGGTGAATTTTG  
TGAAAGCATCAATAAACTTTTACATGTTTATAGTGCTTACCCTCAAATGT  
TTAATTGATTGGTGTCCAAAGTAAACATTTGGGTGTGCATATCTCTAAAA  
GTTTAGTAAAAATTGCCCAATTATGCNCAAAAAATTTTTTAAAAATAGGGA  
AATCACACCCTTACAATTTTTTTTTTCTTAAATCAAAATTCACCCCCCT  
CCTTACTTACCAATAAAAAAGAAATTATTTGAAACCTTCATTTTTTCTT  
TTACAAGGTGTCGTGGGGTAGGGAAAAGAATTATGGGTGTATTCCAATGG  
TGGTACAATTGGGAAAACAAGTTAAGCTTAATATTTTATGGAAGTTATTT  
TATTTGTTTAAATGGAGGAAAAAATGTGCAGTTTTTAAACTCTTTGGGT  
AAAGAAGTCTCCAATTATAGTCTGCCCAAGGGAGTGGGTTTTAATGAGAA  
TATTAATTTTTTTTATAAACGAGGTGTATCCTTCGGGCACGGATTTTAAG  
AAG

&gt;Sequence 596

GAAAACGAAGTTGAGCTCCACCGGGTGGCGGCCCGGGCAGGTACTAT  
TTAAGAAAAGAACAAGGTTAACTAACTAAAAGCAGAACTCACTTATTTTT  
TGCTCCCTAGCCAATTAATAAATAAGTTCATTAAGGCACTTGAAATTATA  
TATTTAACCTGAAAAAAAGTTGCTAAAAATCCAATATAAATGTAAATATC  
TTTAACTTGCTTAACCCAGCTATCCCCAAAACAGTGATGTTGGGGCAAAAT  
GTTCAAAAGAAAAATCATCCAGTGCACGTAGATGGGCACCAAGAAGCTAA  
GCTTCCCTGGCGCTACCTGGG

&gt;Sequence 597

TGATTGCTGTTGAGCTCACCGGGTGGCGGCCCGGGCAGGCACTTTT  
TTTTTTTTTTTTTTTTTGTAGTTACTCTGATGTTTATTTTAAATGCATC  
TTAGTCCACACAGTTGGTATAAAATCAGAAAATGCAAAGCAAAAACAAAA  
GGTCTGGAGTCTTAGCATCAGAAGGGCACCATATATACATCTACAGTTGG  
TGGCCAATACAAGTCATTGCCAGACAGTCCTTGGAGGCACAGAACAGCCC  
AGACCCAGCCAAGCTCTAGGAACTCACGGGTCCCAGGGAGTTCTAAACCC  
TTGTTCTGATGCTCAACCGTAAAAAAAATGTGGGAGTGATGAAGGCTTT  
ATGATTTACTCATTATCCCGCGTACCT

&gt;Sequence 598

TGTAGTTGGCTTCAGCTCCGGGAGGTGTAGAAAGGCGCTGGGTGTTCAA  
ATAGGCTCTCCTGGCCACGGCTGACTGTCTTCTTGTGTCTCTACAGTG  
GACGTGACTCTGGACCCAGACACGGCCTACCCAGCCTGATCCTCTCTGA  
TAATCTGCGGCAAGTGCGGTACAGTTACCTCCAACAGGACCTGCCTGACA  
ACCCCGAGAGGTTCAATCTGTTTCCCTGTGTCTTGGGCTCTCCATGCTTC  
ATCGCCGGGAGACATTATTGGGAGGTAGAGGTGGGAGATAAAGCCAAGTG  
GACCATAGGTGTCTGTGAAGACTCAGTGTGCAGAAAAGGTGGAGTAACCT  
CAGCCCCCAGAATGGATTCTGGGCAGTGTCTTTGTGGTATGGGAAAGAA  
TATTGGGCTTTTACCTTCCCAATGACTGCCCTACCCCCCGGACCCCGT  
TCACCGGGGGGGGATTTTTTTGGGCCATGATGCTGGGGAGGGCCTCCTTT  
ACAAAGTGG

Tabl 2

## &gt;Sequence 599

TTTTTTTGC GGCCCCCTCCCGTCCGGTAGAAAAATAGAGGTTCTGACTCC  
TCAGGAGCAAAAAACATAACCTGAAGAGGGAGGAAGTGGATTGGGGTTC  
ACCATTTCTTGGGGCACACTTGATTGAAAACCTGAGACTTCTGAAGAGAAG  
GCCAGAAGATACAAAGACAGACCATGCCAGTTGAATGCTGTCTTCCAAGA  
ACAGAAGAAAATGATCCAGGCCAGGAATCCATAACACTGGAGGATGTGG  
CTGTGGACTTCACTTGGGAGGAGTGGCAACTCCTGGGCGCTGCTCAGAAG  
GACCTGTACCGGGACGTGATGTTGGAGAACTACAGCAACCTGGTGGCAGT  
GGGGTATCAAGCCAGCAAACCGGATGCACTCTTCAAGTTGGAACAAGGGG  
AACAACCGTGGACAATTGAAGATGGAATCCACAGTGGAGCCTGTTCAGAC  
ATATGGGAAGGCCCTTCATGCCCTGGAACGCTTGCCAAGGAAAGCCTG  
GGGGACAAAAGGAAACCATGTGATGGAC

## &gt;Sequence 600

GTTTGTGCGCACACGCTCCGATGGCCCAGGTGACCAATGGCCGCAGGCT  
CCATGGCGGCTGGCTTCTTCCAGCCCTTCATGTCACCGCGCTTCCCAGGG  
GGCCCCCGGGCCACCCTGCGGATGCCGAGTCAGCCTCCCGCAGGCCTCCC  
TGGCTCCCAGCCCCCTCCTCCCTGGCGCCATGGAGCCCTCCCCACGAGCCC  
AGGGGCATCCGAGCATGGGCGGCCCAATGCAGAGGGTGACGCCTCCTCGT  
GGCATGGCCAGCGTGGGGCCCCAGAGCTATGGAGGTGGCATGCGACCCCC  
ACCCAACCTCCCTCGCCGGCCCCAGGCCTGCCTGCCATGAACATGGGCCCCAG  
GAGTTCGTGGCCCGTGGGCCAGCCCCAGTGGAACCTTCGATCCCCTACTG  
CTTCTCATCCCCCGGCAGCTACACCGGACCCCCAGGAGGGAGGTGGGCC  
CCTGGAACACCCATCATGCCTAGCCCTGGAGATTCCAACCAACTGCAGCGA  
AAACATGTGCACTATCATGAACCCT

## &gt;Sequence 601

TTTTGAGTACTAAGCTCGACGCGTAAAAAAATAATAAAATAAAAAATCT  
GTGCAATAATTTAAATGTGCTCCCAGGAATAGACACAAATGTTTGAGT  
ATCTTTTAAGCTGCATTTTCCTTTAGTGATGCATTTGTCAATTGCACTGA  
ATTTAAATCTGAAAGTCAGAGGTGATTATTGATAGTACTTTTGTATTTTG  
ATATGGACAGTTTATTCAATTTGCATACAGTTATTGACTTTTCCCAGCTG  
ATTAAGATAGTCAAGAAATTCGCAATATAGCTGCCAAAATAGACAGC  
TACATTTTATGATATTGTCATCTTTTCTGNTTTTTTTTCTTTTTTTTC  
TTTAGCTATTTTACTTAAGCATAATAGCCACAATAGGACATATAAAAGAT  
TATAAATACAGAGCTTTATTATCTTGACGTCTTGGGTCTTTAAGTATAT  
ACTTTTCTGAAAGGTATCCATTTTGTAGGCTTGGGTCTTTATGAACATA  
CGATGTTT

## &gt;Sequence 602

GACCACATTCTATATATCATACGAATGAAATCGATTTTGTCTACCGTAA  
CATGTACCTCATACTGTATCTATAATTCTCACGTATCAATGATCTAATAC  
CAGTGAAGACATCATGAATAGACAACCAAGACGAGGTGCACACCTTGGGA  
CACCCTCATCTGCGTGGGCGGCCAAGATCGGAGCAGCGACGCTGCGGGCT  
ACCCCCATGCCACCCATGACCTGTAGGGACCACTCTAGATGCCTACTCG  
ACTCAAGGACAACACACCATGTCTCCGCTCGATCTGGCCAAGCTGAACCA  
GGTGGCAAGACAACAGTCTCACTTTGCCATGACGCACGGCGGGACCGGAT  
TCGCCGGAATTGACTCCAGCTCTCCAGAGGTGAAAGGCTATTGGGCAAGT  
TTTGGATGCATCTACTCAAACCAACCCATGAACTCACCATTTCAAAAAAC  
TTAATTGGCTGCATAAATCGGCGGCCAAGGCCGCCAACATTTAAAGAGAA  
CCCGCCAGATGTTCCGGGGGCCAGGATCAAAAAAGCCAAACCCAGGGG  
AAGGGCTCCTCTGGAAGGGCCGGGTACAAAACACTGGCTCTTGCTGGCAA  
TATTAGATCTGGCCCAAGTATTCTAAATAAAGGCGGGCTTTTCTTCTGA  
AAAAGGCATGGGGGGGCGACTAAG

## &gt;Sequence 603

TACATCTACTTCTGTTTCATATCGTTAATACTATCTATTCTTATTTTCATCT  
AGACTAATTAATTTTATATTCTATTTACTTTACTATACATATATATTATCA  
TATTTATATAATTTGACTCACCTCTAATCATTTCATATTTTCTTATTAG  
TATGATGGGCGGCCCGCCAGCGTCCGGGAAAAATTACCTGTCTTGACTGC

Table 2

CATGTGTTTCATCATCTTAAGTATTGTAAGCTGCTATGTATGGATTAAAC  
CGTAATCATATCTTTTTCCTATCTATCTGAGGCACTGGTGGAAATAAAAAA  
CCTGTATATTTTACTTTGTTGCAGATAGTCTTGCCGCATCTTGGCAAGTT  
GCAGAGATGGTGGAGCTAGAAAAAAGCCCTTTTCAGTTT  
GTGCACGTGTATGGTCCGTGTAGATTGATGCAGAAATTTCTGAAATGAA  
ATGTTTGTAGACCGAGAATCATACCGGGTAAAGCAGGAAATGACAAAG  
CTTGCTTTTCTGGTATGTTTCTAGGATGTATTGTGACTTTTAACTGTTA  
TATTANATTGCCAATATTAAGTAAATATAGGATTATAATATTGTATAGGG  
GTTTTACAAAGCTTTAGACCCTTTTACCTTTCAGCCACCCCAAAGTGCC  
TTGATATTTTAGAGTCAGGCATTGGTTATACATGTGTAGTTCCAAAGCAC  
AT

>Sequence 604

TCGTATCGTAACTTATTTAATTGTTATATTAACATATACTCTATCTTATA  
CACTTATATTACATCACTTTTCTACTTTATTATTTATTTTCTTACCAAT  
TTCGTATTAATTATTTTACTATCTTGTGATGGGGCGACACGCGTCCGA  
GACAATACAAAGTTACATTTTGGACCATATTAACACTGCAAGAAGACAG  
GGGTCTTACTGAAGATCTTTTAGAAAACCTTAAATCCTGTCACAGGATATT  
TAGACATGTGTAGAATGTAGCTCAATTTTAAAAAGTAACTGACCTAGA  
GGGTGAAAGTTGAAACTGACACATTTTCAAATTAAGATTATGCTTTATTT  
TGTAACAGAAAACAATGTTTAAACACAAGCAGATCTGTTGTATGTAATAA  
GTAACACAGAGTTTTTAAACAAAATTTAATTATTTAGCTTTATTGAAGT  
TTTGTTTTTTCTTCCGAACCTGGAGTTATCATAATTATAAACAGCAG  
TTTTACACCAGAATTAGCAGTGCCCTTTTCTTTTGGTACATACTGGAT  
TGGAACTTTTCTTTACTGGGTACCTGGGACCACTTTTATGTTAGTTTT  
TGATGCATAATTCTTTGGAATCCCTTTTATACAAAACCTTAAATTGTTGTG  
TAAGAAAAACCTGTCCCTGGAATGTAATTAAG

>Sequence 605

TTTAGAGGGTTGAGCTCCCCGCGGTGGCGGCCGAGGTACCCAAATACCAC  
TTCAGGAAATCTGGCCAGATCACCTGAATCCAAATGTTCTATTAAATCAA  
TACACGTTATCAAGTCAAATCCAAGCAAACGAGAGTCTCTCTCCACAACG  
GAGCCATGATACAATGTGATGGTCAAATTCAGATCCCGAGGTTTCAGAAA  
ATCCCCCAGGAAAGGAGCTAACGAATCCCTCTCCATCGTAATTTATCCT  
CATTAATACTACTCCAACAAGCAATTCAATGCATGGATTGACTTTTAGC  
AGCCTTAAGAGTGAAGTATCACACATCCCAGGTCTGCAACCTTCTTAGG  
CTCATGTTGATCCACTAAATTTTAAACGAACCTGGTACCTGCCCCG

>Sequence 606

AAAGAATTGAGCTACCGCGGTGGCGGCCGGGTACTTAAAAATAATTACTGG  
CAGTAGGTTATAATTGGTGGTTTAAAAATAACATTGGAATACAGGACTTG  
TTGCCAATTGGGTAATTTTCATTAGTTGTTTTGTTTGTGTTTGAATGAAA  
CCTGGAAATACAGTAAATTTGACTGTTTAAATGTTGGCCAAAAA  
AAAAAAAAAAAAAAGGTCCGCGGGGGCGGAGGTCAGGGACAAGATGGTGC  
CACCGGTGCAGGTCTCTCCGCTCATCAAGCT

>Sequence 607

TTTATTTCTTTTATATTATTATTATTATTTAAATAATTTATTCTATA  
TAATCTTATTATTATTATTACTATTCTTTTATTATTCTATTTTTATAT  
ATATTTTANTNNTTTGGAATGTGGACTGCACTGGCGGCCGGCCGATGAGA  
AGAAGAAGGGGCCAAAGTCACCGTCAAGGTGTATTTTGACCTACGAATT  
GGAGATGAAGATGTAGGCCGGGTGATCTTTGGTCTCTTCGAAAGACTGT  
TCCAAAAACAGTGGATAATTTGTGGCCTTAGCTACAGGAGAGAAAGGAT  
TTGGCTACAAAAACAGCAAAATTCATCGTGAATCAAGGACTTTATGATC  
CAGGGCGGAGACTTCACCAGGGGAGATGGCACAGGAGGAAAAAAAAAAAA  
AAAAAAAAAAAAAAGGTACCT

>Sequence 608

TGAGAGTGGTTGAGCTACCGCGGTGGCGGCCGAGGTATGCGGGAGCTGA  
GAGAACAGACACAGACCTGTGGAAGGTCTCTGCAGGTCCCCCTCCGC  
TCTGCCGATCGACTTCCGCCTCGGGCAGTCAACATACTGCCAAGGAAATC



Table 2

TGATGTGGAAAGGAAAATAGAAATAGTGCAGTTTGCTAGCCGGACACGCC  
AACTCTTCGTTTCGATTATTAGCTTTAGTGAAATGGGCTAATAATGCTGGC  
AAAGTGGAAAAATGTGCGATGATTTCAAGCTTTTAGATCAGCAAGCCAT  
CCTGTTTGTGGACACTGCTGATCGCCTGGCCTCGTTAGCTAGAGATGCTC  
TGGTCCATGCACGCCTGCCTAGTTTTGCCATCCCATATGCCATTGATGTA  
CCTGCCCC

>Sequence 609

TGACTCACCGGGTGGCGGCCGCCCGGCAGGTACTTCCGCCTTGCCGTTAG  
CTTGTGGAGAACGTGCTTCTTATTCCTGGCAGGCTTCAAGAACAGCTGCA  
CATGTGCGCGCTAACTGACCGCGTTGCCATTGGCGACCTGGACTCTGAAC  
CAGGTTTATTCTAAACCCAGTGAGAGGTGAGGGGGAGTGATGAAAGGGGA  
TCAGCTGTATTTGTGTGTGTGTGTGTGAGCACCTGACAAATCTATGAA  
ACCGAGTGAAAGGAGAAATGTTAGATTCTTTATTATTTTATTATTTAT  
ATGGAAAGCTCGACTCTCCCTTTGGTAAGTCCGAAGCATGTTGTCTGTTT  
GTCCGTGACTGTCTTCCCTCAGGTCTGTGGCCTGTGATTTCCAGTCACCT  
TGATGTTACTGACAGGAAATTGACTGGACTGTCATTTGTGTTGAAGTCTA  
GGAGGGAAATGGGCCATTTAATTGTATGAATTTGGTCATAAGTAAGGA  
CTTTTTTTATGTCACCCATATTAGATATATGTACCTCGGCCG

>Sequence 610

GAGCACCGCGGGCGCGAGACTGNTTTTTTTTCTATATAAAGTGATACTG  
AAATATGCTAATTAATATATTAATTTTAGTTAAATGCTGCTAATATGCAT  
ACCTCTTACTTGAAGGTTTTTAATATGTTTTGATAACTTTAATAACTTCA  
GGTGATGTCTGTATAATTTTAAAGTGCAGCTCTCTCTAACAATGTGCC  
CTACAACCTCTGATTAAACGGCGTCTTGAAGGTTCAAAAAAAAAAAAAA  
AAAAAAAAAGGTACCTGCCCC

>Sequence 611

ATTCTTATACCCGCACATATTACGTTTCTCTATTACATTTTTCTATTTTT  
AATTTTACAAATTCATCTCGATATTTTTATTCTGTCATTTACAACCTTAG  
ATTTTTTTTTTCTTTTTAGTTTCGACTCACGTGTGGCGGTCGAGGTACTT  
ATGAGAAATTGGCATGCCTTTGCTAATTTTACTGCAGAGTGTAATCCAT  
GTTTGATAGACATTATAGTAATGTTTGAGTAGGGTATTGTACTATATTCT  
TAGTGGTCTTACGGTAATAATATCTAATACAGTAAATACCTGCCTTGC  
CTTTTCCCTGGATAGTTCTGTAATATTACGAAATTGTTGTACTAACCTC  
CGAGCAATGTGATCCTCAATTTGGTGTGGACTTAGGCTTCGCCCTTTTCC  
ATGTGGGTGCAATAGAGCTAATTATTGGCTCAAGTTTCTGTAGGTATAGA  
GATTCCTTCTCTACCAAGTAGACATTATAGTCTCAGGGGGACGTTCTCTT  
CTCTCGTGTGGGTAACAAGGTTCACTAGAGGCCACCTTATAATTTTTTCC  
CTTCCCTGGCCTTCAAACCTTGTGAAAAAGGCCTTTGTCTACCATTAAA  
TAGGTAAACCATGGCTAGAGGTTTCATTTTCTTCCCAAACAAGTATTCTT  
ATGACTTTCTAAGTTTTAATAAACAACCTTCTTCCCTTTTCAATATAAT  
GAAATGGTCGTAATAAGGAGGTGAATAAAATATTTCCCAACATTATAGTC  
CTTAAGCCAACCTTGTATAAACCTCAGTATTGGTTCTTAAGAAAGCAAAT  
GTCTTTGGTAGGTGAACCTTACCAATAGTTTGGTTCCTAGGGATGGATAT  
TCTCTTGAAGGGCCTAGGCAAGTAACCCAACAAGGGGAATGGGCCCCCC  
CTAAATTTCTTGGGTTCTTGGAGCGAGGTCTTGGCTATAGCCCCCG

>Sequence 612

GAGACAGTGAGCCACCGCGGTGGCGGCCGCCCGGCAGGTACCAAAGAAG  
ATGCAGTTCAAAATACTGCCAGTTTTCCAAGAAATTTTGTAAGTTGAAC  
ATGGCCATCTACTCTTGCCTTAAACCTTTTCTCACCACACCCACCTTCCC  
ACATGCATGATATCCAAGGTCGACAGACCTGGATTAGAATCCACTCTCAA  
GCTTCTCATGCAGTCGTATTGTATTTTCTGCATAAGAAAGGGCTGCCTC  
TAGAACACAGTAAGTGTATTTGCCAGTAGTGACATTGCCTACATATAGC  
CAAGTGTTATAGTATACCAACTTAGTATATTTTCAAGGAGAGCTAAACC  
ACCTTTTGTAATGGTTTGGTTTCTCACTGTTATCTTCTTCTTCTATAATT  
AATTTATTTAATCTACAAATTGACATAGGGCTAAAGCTTCAATATTTT  
ACAAAATATTAATTAATGTAATTGTTCCCAATTATTAGAACTTTTTTCC

Table 2

ATTTTAAAAATGGTTGCCAACTTACA  
>Sequence 613  
GGAGAACTACTGTAGTCGCCCCGNCGTATTTCTGTGAGATCCCCACCCCCAGG  
AAGNCCACTTTGANGAGGCCATCAAAACGAACGGTTATACCCCNCCCACA  
NNNCACNCNGAGGGGGANGTTTACAAGNNCACCCGGNCCCCCGCTGGGG  
AAAGGAAAAGCTAACTCCACGTCTGTTCCAAAGGCCTCTGCTGGTATTTAC  
TTTACGAGAGGCCACCTTATCCAAAGAGCTATATGCCCTGGGGGGCCTT  
GATGGGCTTCACACAGTACCTGCCCC  
>Sequence 614  
GATGATTAAGCGAATAGTAGATTNGGCGGCCGATGTTGTGAGATCTACTC  
ATAGNTAAGAAACATTCTTTATAAATTTTGATCCCTCCGTTCAAGCCAAT  
ACCTAATTTAATTACAGATGGATATTATATGGTAACGGGTATTTACAGA  
AGGAAGGGTGTATTACGGAAAAAGCTAACGGCACGACGTTTATTTTCC  
CCCACAATCTTTCATACAGGAATAACAAATTGAACTTGCAAAAGCACTA  
AAACATCACATGTAAACCCAGCTAACAGAAAAATACATTACAAAGCGTTG  
TTGGTGGTGGTGTGTATGTGTGTGCTATGGGTCAATGTGCTGAAGAAACA  
GAAGGGAGACTTTGGCACGGCTCATTTTTTTTCAGTCTATAGTTACATGAA  
GTTTACAAATTAGGTTGGCCTATAAAAAGGAACCCCTTATTCAATACCCCA  
ATACCAAATAAACCCCTTTCTTTACATACTTAAAAAGAAACCGGGTTAA  
CTAAAAAGAGGAAAGAAGAAGGCC  
>Sequence 615  
TAGAGGAGCTCACAGCGCAGCGCGGTGGCGGCCGCCGGGCAGGTACTTT  
NTTTTTTTTTTTTTTTTAAATTTTCCATGTATTGGCCTTAATCAAATAT  
AAGCTGTGGAGTGGCCAATATACTCCATTGTGATTATACACTGATTCCA  
TCACCTGCCTTTGTACTATCAACTCTTATTAGATTAAGGAAATAGACT  
GAAATTGGGAGNGAGGTCAGCGGCTGGCTGGATAAGATGTTGGGCTCAGA  
AGAATGTATGTGAAAGACACCAAAGGCCTCTCTGTATGGACACAAAATC  
ATATAACCACTGTGTCTGAGCTGGGTTGTGGATAGTCTTATTTGGCAGAG  
GGGGATAGCCATTATATTCTATGAACCTTGCCAGCTGTACCT  
>Sequence 616  
TAGAGTGCATCCGCCGCTGAGGCGGCCGAGGTACTGTGCCCTCTTTCTT  
CACTAGGTGACCAGAGTGGTTTTGACTCCTGTGGTGCTGAAGTCATTCT  
CAGGGGTCTCTATGACCTTTCCCTCCTGCAGTTCAGTCTAGTTTCTTCT  
ATTTTCATCATCCGCACTGCTCTTAGCATCGAAGTCACTGTCTGCATCTGG  
TTCTCTACTTTACATCAGTTTGAAGAATGCATTTCTCTTGTGGTATTCT  
GTTTTTTGAACTTACTTTCATTGGAGAAGCCCTTGATTTTTCTTCCTTA  
TACCAGATCTGGCTTCACGAAAGCTGCATTTAGGTACCTGCCCC  
>Sequence 617  
GTGCAAGGCCCTCGCTATACTAATTTTATAAAAAAACTTTCACAAAT  
TCCCTTGGAAGTGGAAACATAAAAAGGATGCGAATTGGTGGTGGTAAACT  
GGGTATTTGGAGTTATATAAGGTTCCCAAAAAGGCATATTCCTTTCAAAA  
TTTTCAAAATAAAGAATTTTTTTTACTGGATTTTAAATGGGGGTGTGCCA  
ACTCATTAAAGGATTTTATAATGGGTGGGGCCCCCGGGCCCGGCTTCGAA  
AAAAACTCTTTGGCTTCTTGGAATGAATCCTGGGCTGGGGGGTCCGGTG  
TGGAAGGGGTTAGTTATTTAAAGGGGGGAAATGGG  
>Sequence 618  
CAGCGTGCAGCTCACCGCGGTGGCGGCCGAGGTACTGGGACAGTTGGGTG  
CGTTATGGATCATAACCTGAGGAGCCGGGGGAAGCTGGCCTTGGGTGTTT  
TACCTCAATCATATATCCACACAAGTGCTTCTCTTGACATTTCTCGAAAA  
TGGGAGAAGAAGAATAAAATTTGTTATCCTCCACAAGTGCCTGGAGAXCC  
TGAGACCAGCAGAAATCTACCACTGTGCAAGACAAATAAAATATAGCAAA  
GACAAGATGTGGTATTTGGCAAAATTGATACGAGGAATGTCTATTGACCA  
GGCCTTGGCTCAGTTGGAATTCATGACAAAAAGGGGCCAAAAATAATTA  
AAGAGGTTCTTTAGAAGCACAAGATATGGCAGTGAGAGACCATAACGTG  
GAATTCAGGTCCAATTTATATATAGCTGAGTCCACCTCGGGACGAGGCCA  
GTGCCTGAAACGCATCCGCTACCATGGCAGAGGTCGCTTTGGGATCATGG

Table 2

AGAAGGTTTATTGCCATTATTTTGTGAAGTTGGTGGAAGGGCCCCCACCT  
CCACCTGAGCCACCAAAGACGGCAGTTGCCCATGCCAAAGAAGATATTCA  
GCAGCTTCGCAGCCCCGACCATCGTTCACACTCTATGATGAGGAGAATTAG  
ACTCCACAGTGTATATATTTTGGCATTATTTTCTAAAAATAAACAAAAA  
TGGAAGCCAAAAAATAAATACTGCTCGGCGGGCGTCTAGAA  
CTAAGGAATCCCCGGGCTGAAGAATTCGATATAAGCTTATGGAACCGCGA  
CCTTGGAGGGGGGGCGACCCAGTTTGGTCTTTAAGAGGTTAATGCGCC  
TTGGGTAATATGGG

>Sequence 619

TTAAGAGCCGGAGCTGCACCGCGGTGGCGGACGAGGTACCTACTATGTGT  
CAGCCATGGGGGATACAAAGATCTATAAGGCACAAGACCCTCAGTCTTGT  
AGTCGCCTGACAGCCAGCCAGCTACAACATAATGTGGAAAGGACAATGGT  
GGGAAATGCACCTCAGGCTTCCTAATGCACAGAGTATGCTCAGGCTGTGA  
CATAGGAANGAAAACACGATACTTTACCTTAACACNNGACTTGGAGGGAC  
CTTCAAAAAACATGTGATGGTGAAGGAAATCCAGTTTTAAAGTCTTGATT  
TAAAAAAGAAAACACTTTCTGTGGATAAAGATAGGCTGCAGGAAATGT  
AACCTATGAAATTTTCTCAAATTAGCTTTCAGACACACAAAAAATTGC  
ATTTGTTTGAGGAGCAGAATGTAACCTATATTAAAGAATAAACTACTATT  
TAGTATCTGAGTGAAGTACCTGCCCC

>Sequence 620

AGTGAACCGCGGTGGCGGCCCGCCGGCAGGTACATTCTAATTTTTATGA  
GACATAGATATGTATTTATAAAAAAGATAGATGGAAAGAGAAGAAATTAAC  
TTAATTCTAAGAGCCAAATTTACTCAGAAGGTTTAGAAACACCAAAATTA  
ACAGCCAGTTTTCTTGATTTTCTTCTTGAAGAAGAGATTGGTGTGACTA  
TGGTGAGATATACTATGGCCTTGAGAGGCAGTTTCAACTTGAAAAAGA  
TGCAGGTTGAGCAATCGGAGAGGACTTCAAAGAAGCTGATGAGCTCTCCC  
GTGGACTTACTTTGACAATGTTGGAAGAATCTGGCTGGCTAGTCTGAACT  
GGAGTGGCTTGAGAACTCTGGGCTTCCTTATTCTCAAAGTTCTTTTTGT  
TGCAAACCCTTTTTTTAGTAACCTGCAGAGGTATAAACTGATTGTGCACA  
CCCCCTGGTATCCCCCAGCCATGGGCATGGTCCCAGAATATAAAGTATG  
ATGGAAGGGCTTCCAGGAACCTGGCACCAGTGGTCCCCATGGCATTGAGC  
CAAAGAGATGAGACGACGAAGGCATTATATTAGCAATAGGTGGGGGAAAA  
GCTGGAGGAATGGTTTCAGGTGGTACCT

>Sequence 621

AGACGCCCGCGGTGGCGGCCGAGGTTAACGACGCCTGCCCATGACAGAGC  
CTAGGAAATCGCGATGACAGTTTACAGCAGGTAAAAATCCGGTGGAGACCA  
GCAGCATCCCCGAGAAGCCGTGCGATTGTTGGGCGTATGTAACCTCGCTG  
GTACTCTTGCGCCAGGGGCGNGCCCGCATGCTAGNAAN

>Sequence 622

TGATGAGACTGAGCTCACCGCGGTGGCGGCCGAGGTACATTTATTTTCTAGA  
TAAGGACAATAAGTTTACTTTGTATCTGAACTCAAAACAAAGTAGTTGTA  
TATTTTAAACATTCAAAATTGGGATTTCCCAATGTGACACATCATGAATGC  
AAACCCCTCCAGCCCATCAGACGCCAGGCTGCCTACTGGTAATCTGTGTA  
TAGTATATAAACATGTAAAAATAGGTTGTATTTTACTCTATGTATGATGC  
TAATCAATGAACACTTTATTTATTTTACAGAGAAAACCTTATCTGTGAACT  
TTACTATATATCTGTTTATTTTACTTTATTTTTTTTTTAAATAAAAAAGGGG  
TTTTAAATGCTTTGCCGTCCTTAGTTAAAAAATTTTTTAGGACTTTGG  
CCCGGCTTGAACTTTTTTAAAGAACGGGGAGAAAAACCTCGTGTGCAT  
CCAAGTAAAGTTTTTATCTAAAGAAAGGTTCTTCATTGCTTTTCTGACA  
CAGTTGTGGCTCTGTTTTTNGAATGAAACTGGTTTAGATATC

>Sequence 623

TAGAGTGGCTCCCGCGGGGCGGCCGCCCGGGCAGGTACAGCCATTGCTCT  
TTGAGTTTGTCTGGCTAGCAAAAAGCTGGCTGTGTTATGTAAATAAAGCC  
CCTATAGTAATTAATAATTAATAAAGTTTTTTAAGCTGGCTGTTTTCT  
ACCACTTCAGAGTCTTGACCCCGTAATTTAGGTCCCCCTCAGATTGAC  
AGACAGAAACAAACAACAAAACAGTTAAGCAAACTAACAAATGGTCACAC

Table 2

AAATTATACAATTTCTGAGTGCTCTAAGTGCAATTGGAAGAAAGCTGAAAC  
TCCATAAAAACATCACCTGCCTTCCATCATCATGAAAGCAGGAAAACCTG  
CCTTCCTTGTTGNGAGCAAGTAAAACTCCAAAAAAGAGGGTGTGTACCT  
>Sequence 624  
TGTTATGACTCACCGGGTGGCGGCCGAGGTACGGCGGGGAGCCGCCTGGA  
TACCGCAGCTAGGAATAATGGAATAGGACCGCGGTTCTATTTTGTGGTT  
TTCGGAAGTGAAGCCATGATTAAGAGGGA  
>Sequence 625  
TTTAAGGCGTTGAGCTCCACCGGGTGGCGGCCGCCGNCAGGTACAACT  
GATCTTCATGAATGTGTGGTCCACTGCTTTTCTGTTTCTGTACAGTAGC  
TATAAACAGCTGTTTAAGGATATCCTTATCTAAATTTCTGCCAATGAGGA  
CCAATCGATTTGTTCTCTCAGTGTCTCCTCCAGCTCACTGAGTCTCTC  
ACATAGAGCTCATCCCGCGTACCT  
>Sequence 626  
CCGGGCAGGTACGCGGNGATGAGTCCTAGGAGGCGCTGGCTCTTTGGCGG  
CTCGGAGGAGCGGCTGCTGCTGCTGCTGCTGCTGGTGGCCCCCTTGC  
AGATGTA  
>Sequence 627  
GGAGACTGATGAGCTCACCGCGGTGGCGGCCGCCGGGCAGGTACTTTTT  
CTTCAGAAAAATTCTCCTTGAGGAAAAATGTCCAAGATAAGATGAATCAC  
TTAATACCGTATCTTCTAAATTTGAAATATAATTCTGTTTGTGACCTGTT  
TTAAATGAACCAAACCAATCATACTTTTTCTTTGAATTTAGCAACCTAG  
AAACACACATTTCTTTGAATTTAGGTGATACCTAAATCCTTCTTATGTTT  
CTAAATTTTGTGATTTCTATAAAACACATCATCAATAAAATAGTGGCAAAA  
AAAAAAAAAAAAAAAAANNGGGTACTCCCTGATAAAGGGGGAATTTTCCAT  
GCCGTCTACCGGGGATGACCTGGAAAAAATTTTTTAAACCCCGGTTTTT  
CTTTTTTTTTTAAAAAAGGGGGCGAAAACTTTTTGTAAAAAGGGGG  
TTTATACACACGGGGGGGGGGGAATTTCCGGAGGGGTTTTTTTTTTTTT  
TTAAAAAAGGGGGGGGGCCCCCAAAAAATTTGTTTATGGACAACA  
CACAATTTTTT  
>Sequence 628  
TAGTTGGAAGTACCGTGGAGGCGGCCGCCGGCAGGTACGCGGTGGAAGA  
CGGAGGCGGTTCTACAGAGAGTAGGCTGTGAGGGAGTGTATTTTCGCG  
TGCGCTTCTGTTCTCCGCGCCCCCTGTGCTGCTCCGACTCACATACTCGT  
GCAGAACCGGTCTGAGCCTCTCCGCGCAGAAAGTGCCCGGAGCATGGCGGT  
ACCT  
>Sequence 629  
TAGAGTGGAGCTCACCGCGGTGGCGGCCGAGGTACAGACGACGTCACCGT  
ATATCTTCTTTTCGGCCAGTGGAGGATATCACCGAAGAGGACTTAGAAAA  
TGTTGCCATAACTGTTTCGAGATAAAATCTATGATAAAGTTCTGGGTAACA  
CGTGCCATCAGTGTGCGACAAAAGACCATCGACACCAAGACAGTGTGTCGA  
ACAGTGTGTGGTGTGCGAGGACAGTTCTGTGGACCATGCCTGCGGAACC  
GCTATGGGGAGGATGTCAGATCGGCATTGCTGGACCCGGATTGGGTGTGT  
CCCCCTGTGCTGGGATCTGCAATTGCAGCTACTGTGCGAAG  
>Sequence 630  
TAGAGTTGAGCTCACCGCGGTGGCGGCCGCCGGGCAGGTACATAGTGTC  
GCGAACTCAAATCGGCATTTAGATAGATCCAGTGGTTTAAACGGCACGTT  
TTTGCTTATAAAAAAAGTGCAAAAAAGATGTGGTTTACAAGTTAAAGCTA  
CAGAATCCCTTTTGTCTGTAATTGCACCAGTTTTAAAGCCTTTGGACAGA  
GCAGATCGTTTAAACCTTTGTTTTTCTTAAAGCTTACAGTGTTTGGCTA  
ATTCTCCTCCCTTTTTACAAGACGGGGGCCGGAGGGTGGACACTGGTGG  
CAGGTTAAGGATACGTGCTACTTTAAGAAGCCTGCAGATTGAAGTGTA  
CATGGAGAAATTAGGGGCTGATTTTTTAACTGTGTGAGATATTAACCAG  
CCGCCCTGTTATAAAATCAGGAAATCCAAACAGCGATTTACACCGATTAA  
CACCCCTTTATATATTTTTTACAAAAATACACTGAGAAAAATCAAAAC  
GTTTTATCTCTCTTGTCTTTTTTGTTTTTTAAAGTGTCAAAAGTCTA

Table 2

CATTTAAATATAAAAAATTAAAAGTTAAAACCTCTAGCCCTTCAGTGAAGG  
AGACGTAAAAATGGCGTGGGTAACAACAACCTACCAAAAAAAAAAGAAAAAA  
AAAGAAAAAAAGGAAAAAGGAAGGAATAAAGAAATAAAGGGAGTAAAAAGA  
AAGGAAAGAAAAAAAGGGACAAAAGAAAAAATATGTTTGGCCAGTATAAA  
TACGTTACATATAAAATGCATCTGATTACATTAACAAGGAAAAAGAAATA  
CGAGGATGGAGCATCGGTGAGGAAAAAACAGTTTCTCATTTACACCTAT  
AGGAATAAACACAACACTN

>Sequence 631

AGGTCATCAGCTTGCCTCAAGTCTGGAAAGAAATTGGCTTGGGCTCATCA  
AGTTGAAGGGACCACCAAAAGAGCTAAGATTGCTTGAATACTCATGTGG  
CCCCTAGGATGCACCGACTGGTAGTGATGAGCCAGGTTTACAAGCAGACA  
CTGGCTAAGAGCTCAGACACTCTGGCGGGGGCACATGTAAAGATTTCATCG  
TTGCAACGAATCTTTTATATATCTGCTCTCTCCCTTACGATCTGTGACAA  
TTGAGAAGTGCAGGAATAGCATCTTTGTCTTGGGCCCTGTAGGGACTACA  
CTTCACCTCCACAGTTGTGACAATGTTAAAGTCATTGCTGTTTGCCATCG  
TTTGCCATCTCTTCTACAACAGGTTGCATCTTTA

>Sequence 632

AGGTACCACACTCAGGGCAGTTTCCAGCTCCTCTCACAAACAGTAAATCT  
ACACAACCTTTCACAGAGAGTGTGTCCGCACACATTCACCATCAGCTTCAA  
GGAGGGGTTCCGATATTTGGTGGTCTTACACCGAGGGCAACCCTGATCGT  
CCATGGCGGTTTCCCTCTACAGACTCTCGCAGGCGCCTGTTTCAGCCAG  
AGCCACCTACAAGCCCCCTCCCCGCGTACCACCACACTGTCCCAAATTAC  
CTCTTCATTACCCAAATCAAAGAATCTTTCTGTTTTCCCAATCCTCAAAA  
GGAATGAAGAAAAACCAAAGAGCAAACTCAAAGATGATTTTACCATAA  
ACCTCAAATGTGGCTTAACAAGTACCTGCCCGGGCGGC

>Sequence 633

GCCCATTGCTGTTTGTGTTTGTGTTGCTTGAAGACCAAGACGGAGTTGGGCCT  
CTTGA

>Sequence 634

CCGGGCAGGTAAGTAAACCACTTCCAGAGTCTAAAGCAGCTCAGATGTT  
ATCTCTGGGGGAATTAGTGTTCCTCTCATTTAGCAACCTCCATACCACAA  
GGTCTCTGTCTGTAGTTACTGGGATTATCCAGATACACTATCAATGATAC  
AAATTCATAGGAGTATTAATGCATTTCTTTAAACACAACCTTGATTAAGAA  
GCAAAATATGTTAAGCAGTTTTCTTTTCTGCTGCTAAATTACAGTTAGAC  
ACTTCAGTATCTTCTCTTTACATGTGTATATAAAATTAGTAAGAACCTGCA  
TCCAAAGCAATGTAGTGTGTGTATGTATCTATATATATTTATTCTAACTC  
AGCACTTCAGAAGCCTTTTTGAGTTACAACAATATTTAGTTTGCCTCAT  
CTGTAGAGGTAAATTTCTATATTACCAAGCTCCAGAGGAATATGATATT  
TTACAGGCACAATTTTCTGGCTGTAGTCCCTGGGGCATTTATTGCTTGC  
CTCCATGGGATGCTGTTAGAACAATTGTTAGCCGGCAAGAGAAGAAAGGC  
TACCAGGACAGCATTTATAATTGTAGAATGGGAGCCTTTTTCTCTNCC  
CTCCACTTTTCATTTAGCATGAAATAAAAAATAATTGGAAATG

>Sequence 635

NAGAAAGTGACTCACCGCGGTGGCGGCCGAGGTACAGATGATGAAGCTTCC  
AGAGCTTATCTGATCTCTTAGACAGAACTCACATAAACACACAAATACAA  
GAGGTTATTTTCAAGACACACACTTGCAAGTAATCTTTCTATAGAAATGG  
CCACAGCATTATAATTTCAAAATATGGAAGATTGACAGTCTGAGGATTT  
CTAGGAAAAAAAATCAAAGGACTTGCCAAAAGGATAACTACATAACAGA  
TATGACAATCTACAGGACAAAAAGACAACATGTCAGGAATATTGTTTCAT  
ACAACAGCGTTAATGGAAAAACAGTAAACACCTTTTAGCAGTGTGCATGT  
TAAGTCTTTTAGTAAGATTATCTGTAATGAGGTTTGAAAGTAAATCACTT  
AGTAGACAAAGTAAACCACCACAGAACCAGGAATAGCACCCATCACTGCT  
GCTTTGTCACTCCAGAAAGCTGAAAGTCAACCGAACAATGAAAAAAGTC  
AAAGAAGCATTTCCCTTTGAATTCAGTCTCTAAAAATATGAATGCCTTATA  
ATTAATTTCAAAATAAGTATCTTACAAGTGTTCATGAAACATTGTTTTTC  
CTAAAAGGCAAATTCAACATTATGAAAATATATATTTTGGCCGGTAGTTA

Table 2

CTGAGAAATGTCAATCCTTTCAACTCTAGAGAATGATGCNATGAAGTCGG  
CTTTGAGCCCCACTGCCGCTTGGCGGTGTTTNCATTGCTTCTGCATT  
CGCACCTTAATGCAGATGTACCTTGCCG

>Sequence 636

TCTTTTCTTATACATATAATTCTTTAGTTTTATATTTTATACTATGCAT  
CAGATGTGTGTTATGTCATCTATAATATTAACCTTTTTTTCATTTTAATAT  
ATTTATGTTAATATCATTATAAGTCGACGATGACTCACGCGGTGGCGGCC  
GAGGTACTAAAGGGCAAGGTTCACTACTACAAAAAGGAAGTTGTCTAAAA  
GCAAGAATTCAATTAACGCTGGGTAAGAAAAGTCAAAACACTAATGAGTT  
GTCCATGAAGCCAAGTCTAAGAACGCGCTCACTATACGCGACATGAAG  
ACACTACGCACGAAGCCTTACTTGGCGAGTCTGAATTTCTATTAATAAG  
GGCAGAGTGAGGGAGAACAAAGAGCTACTTCCGTAACATTTTAGTATCCA  
GATAGTACCTGCCCCG

>Sequence 637

TGTGGGTTGAGCTCACCGCGGTGGCGGCCGAGGTACAGGAAAGGGAAGCA  
CAGTTTGGAACAACAGCAGAGATATATGCCTATCGAGAAGAACAGGATTT  
TGGAATTGAGATAGTGAAAGTGAAAGCAATTGGAAGACAAAGGTTCAAAG  
TCCTTGAGCTAAGAACACAGTCAGATGGAATCCAGCAAGCTAAAGTGCAA  
ATTCTTCCCGAATGTGTGTGCTTCAACCATGTCTGCAGTTCAATTAGA  
ATCCCTCAATAAGTGCCAGATATTTCTTCAAAACCTGTCTCAAGAGAAG  
ACCAATGTTTCATATAAATGGTGGCAGAAATACCAGAAGAGAAAGTTTCAT  
TGTGCAAACTAAGTTCATGGCCTCGCTGGCTGTATTCCTTATATGATGC  
TGAGACCTTAATGGACAGAATCAAGAAACAGCTACGTGAATGGGATGAAA  
ATCTAAAAGATGATTCTCTCTTCAAAATCCAATAGATTTTTCTACAGAG  
TAGCTGCTTGTCTTCTATTGATGATGTATTGAGAATTCAGCTCCTTT

>Sequence 638

TGTCGATGACTCACCGGGTGGCGGCCGCCCCGGGCAGGTACGCGGGAGAAA  
ACTAAACCTTCATTTACTGTGAACATCTTCTGACTGTGGCTTCCAGATGC  
TAGTTTACAGAACCAACACACAGCAAGACCAAGCTTATGCTGAGTTGACG  
GAACAATGAGTAAACATAAGGATATTACTGTGACTTTGAAATTCTGAAAT  
TGTTCTTTCTTAACCTTTGCAATTAATAACATTTATTTTATAAAATAAT  
GAAA  
AAAG  
AGCCCCCNCTAAAAAAAAAGGGTTTAAAAAATTCTCCCTCTTATTGGG  
GGGGGGAGCCGGGGTTTTTTCTTTTTTGGGGGCCCTCAAAAACGGTTTTT  
TTTTTACTCCCCCCCCCAAAAAAAAAAAAAAAAAATTTCCCTCCCATTA  
AAAAAAAAAAATTTTGTATAAGGGAACGCTCCCGTTTAATAAAAAA

>Sequence 639

TGCGATGACTCACCGCGGTGGCGGCCGCCCCGCACAGGTCCTGGCCCTTA  
ATCCCATCAGATTTGTAGATCTTAACCAGGCAGTCACCGAGGCCTCGGAA  
GTCCCTTTCAGCTCCAGCTTTACCCACATCAGCTGCTAGACGGGTACCT

>Sequence 640

TGGAGACGATCGAGCTCACCGCGGTGGCGGCCGCCCCGGCAGGACGCGGG  
GCTGTCTACCGGTGAGACCTGGAAGCGGGCGAGTCTCGTGCTGTGTGG  
ACCTGCAGTCCCTGGCCTTCCGCCACCATGGAGTACCT

>Sequence 641

TGAGATTGAGTCGAGTTCACCGCGGTGGCGGCCGCCCCGGGCAGGACGCGG  
GTCTTCAGAAACCAGGCTGCTTTTCAAGAACATTGCTGTGGATTCCAGCT  
TTCAGACAACACATGACTAAGACAGAATGAGACCACTCTAGTTGCCTCAT  
GGGAAACTCGGGAAAAGACTGCAAAAACAACATTGTTTCTCCCTTTGGAA  
TTCTGGAGTTATAAGGCAGAGGTCCCCATCTTCCCGAACTGGCCTATT  
CGCTAGAAGCAAGATGGCTGAACCTCAATACTCATGTGAATGTCAAGGAAA  
AGATCTATGCAGTTAGATCAGTTGTTCCCAACAAAAGCAATAATGAAATA  
GTCCTGGTGTCCAACAGTTTGATTTTAATGTGGATAAAGCCGTGCAAGC  
CTTTGTGGATGGCAGTGCAATTCAAGTTCTAAAAGAAATGGAATATGACAG  
TTNNNAAAAAAAAAAAAAAAAAAAAAAAAAGGTTCTTGGC

Table 2

## &gt;Sequence 642

GCCGAGATGACTCCCCGGGGGCGGCCGGGACTTGGAGAATATTTCCACAA  
TAGCCGATGACTTGTTCCTTGTGACAAGAGAAAAGTTCTTTGGCTGTTACC  
CTCAATGATAGTGAGGTCCATTGCCGTCTATTAAATGGAGATGATTCCAT  
CTTGCTACAGACACTGAAATACCTGGCTAAAAGCCGCTTTCTCTGCG  
CTGCTACCAGCCCTGTACAGGTCCCGGCGCTCTACCTCCCGCGTACCT  
GCCCC

## &gt;Sequence 643

GTTGAGTGAGCTCCCGCGGTGGCGGCCGAGGCACGAGAAGCTCACTGGCT  
GTGCTAAACCAAATGAATGGAAAGCGCCAAAAGTGATTTTATACCAAGGG  
TCCATCCATACAAATAAACAAAAATCCTATCCTCTTCTTTCTATATTGTG  
TTCTTACATTTCTTATACAAATAACAGAATGCTTCATTTTATTCATTCA  
ATAGGACAAAGTCCTTAAAGAAAAGACTGAAAAGAGCTGATAATCAAAATC  
CCAAATTTTATGCTTATTTTGGTTTAGGGCTATCAATTTTCTGACATAT  
TAACATAGGCAGGAAAACATTCTCAGTAAATTGAGCATTTGAGTCTACAA  
ATGTCTTGAAGCACTCTGGCAAGTTACATGTATCCCATGTTGCTTTTGGT  
TTCCCATCTCTTCTTTGCTTCAAACCCCCATGCAAGTTTCTTCTTTTTC  
GGGCAAGCTGTGAATATTCAACCTCCTTTTGGCTTTTACAAAGGTGTGG  
CAGGCAACTGCTTTGGCAATTTTACACCAAGCTCTCGAGTAGCTAGCTG  
GTTGCTGCGTC

## &gt;Sequence 644

TGACGACGTGGAGCTCCCGCGGTGGCGGCCGAGGTACACCCTCTGGCCTC  
TCCAAGCAAGCAGTGAGGTGTGCATTGTTAGAGGTGCACCGGGAAGGGAG  
CTTGGTTTCGGACCCCGAGGACATCCTGTCCGCAAGCAGCTGCTACTTCTT  
GGGCTTCTCTAGAATATTGAGGAATTTCCCCCGTGCATCTCTCTGGACT  
CATCCAGCCCCAGCTGATAGGCTAGGTTCTGTAGGCCTCGAACCTTCTCC  
ATCAAAATAGCCGTGGTGAGACTCCCCAGTTCTTTCAACATGTCGATGTC  
ATCACGTTCTATCTCAGCCATCCATTTGGGTGGAGAAGTGTAAATAGGAC  
TTTTGAAGGAAGCTGCAAAATTCAGCAACACCTGGTAATTGTTCTGGCCAA  
AGATCTGGTGAGGCACGGTCAAGTTTTTCAAACTTAGCAAAGATGCTTC  
CAGATCTGTCCCGTCTGTGGGAGACGCCATCTTCCAACCCATGTCACGTC  
CCCGCGTACCTGCCCGGGCGGCCGCTCGAGCCAGGAACCGTAAAAGG

## &gt;Sequence 645

TTAGCGTGAGCTCACCGGGTGGCCGGCCGCCGGGCGGAGGTAATTCAGGGA  
GGCCTATATATTGGCACCAAGGAATGCCAGGACTGCCACCTGCTGCTCC  
AGCGTTAGCCTCACTCGTGTGCTTACTCACTTTGACTGCCTTTTGTCTA  
TTTCTGGGAGGTTGGTAGAATGAAAGGGATGCTCCAAGGCAAGCAGATGG  
CCTGTCCACCTCCTATATATTGACAGTGCCAATGAGTGTAGAGTCTTGCT  
ACAAGAAACAAAGTCATGAGAAATGCCAGGCTTCTGTTACACCCAAAGA  
CTGCTGGCCCTCCTACTCTATCC

## &gt;Sequence 646

TCCACTTCCCTTTCAATTTTGTAGTGATTATTGTTATTAATATCTCTTT  
ATATTTTGACATTATTTTAAATTATATGTTAGTTATTCATTCTTATC  
TATTATTTCTTAGTAGTGTGACTCACGGGTGGCGGCCGAGGTACCGGCC  
AAGCCTGGTCCCCTTCTTGTGGGCACTGTGTATGGGCGGAGAAAATCCA  
GCTTGTCTTGTGATGACGCAAGGTCAATGTTGCTTCCGGAGCCCAGG  
TCGTTGAAGATGCCAGCTGCGATGGCTTCGCTCACCAGATTCTAGGCTTC  
CTTCTCCTCCATGTCTGGCCTAAACTTATCTTCAATAACAGACCATTGCT  
GCCAAGGAGACCAGAACCCATGGTGACATAAGGCAACTTATCAGTTTGAT  
CCATGAGGATAGATGCTGTAGAGGTGAGGTCTCAGTTACATCTACTCCC  
CCTAAACTAGGGCTGCACCAATGTAACCTTGATACCTGAAAAGCATCTG  
CTTCAGCATCTGGCTGTCAACTCTGGGAAGACGGCCAGTGGAGA  
GGGAGTGAGCTCCAGGTTGGAAGAAATGAGCTGGGTTGTCATGTCTGTG  
TCTGCAGCTGTCCCAGTACCACAACATTAAATATTAGGAGATATGAAATG  
TATTTT

## &gt;Sequence 647

Table 2

GGACGAAGTCGAGCTACCGCGGTGGCGGCCGCCCGGGCAGGTACTTTTT  
TTTTTTTTTTTTTGAGACAGCCTGGGTGACAGAGCGAGAGAGACTCTAAA  
AAAAAAAAAAAAAGAAAAAGAACTGTTGAGGGATACACAATATGTCAAAAT  
ATTAAAGCTTTTTTTTAAATTGGGAACACTCAGGATATTGGGATAATTAA  
TTAGGCAATGATTCAAAGATGTTTGGTTTTAAAATTCAAAACCCTCCAAA  
GGTCAAACTCTGGAAAAAATTTTTGGTTTCCCCCTCCCACGTTTTTTT  
TTTTAACCCCTTAAAAAAAAGGGGCTTCAACCCTTAAAAAAAATTTT  
TTTTTTTTTGCAACCCTCTTTTTTTTGCAGGGGGTTTAAAAAAGGGG  
GAAAAAAAAGGGGGTTCCTCCTCCTAAAAAAAAGAGGGGG  
GGGGAGAGGGAAAAACAAAAAAAATCTCTCCCTTTTTCTTTTTTTG  
TGGGTATAACCACGAGAAAAATATAATTTTGTGTTATTGTAATCAACAA  
CCCCACCACTCACTTATTTTATGTTTTTTTCCACTATCAAAACAACGCTG  
TTGTTTGTGG

&gt;Sequence 648

GGACGACGATAGAGCTCGGGTGGCGGCCGCCCGGCAGGTACTTTNTTTTT  
TTTTTTTTTTTTTTTTTTTTATTTTTTTTTTATTTTTTTTTTTTTTTTT  
TTTTTTTTTTTTTTTTTGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TTTTTTTTTTTTTTTGTTCGGGGGAAACCCCCCTTTTGGGGTTTTT  
CCCCACGGGGACCAAAAGGTTAACCCCGGGGACCCGGGGGGGGGGGGC  
CCACAACCCCAAGGGTGTAAAAACACGGGTGGGGGGGGGGGAAAAAAGG  
GGGGCCAAAGGGGGCCCCCCCCCTTTTCCCGGGGGGAGAAAAAGGGGG  
CCCCCCCCCGGAGACCCGGGGGGGTAAAAAAGGGGACCCCCCGG  
GGGGGGGGGAATCTATATAAAGTTTATTTCCCCCCCCCGGGGGGGG  
GGGCCCCCCCCCTTTTTTTTCCCTTTTGGGGGGGAAAAAGACCGCGC  
CGGAAAAAAAATATTTTGGGGGAAAAAATATTTTCAAAAA  
AATCCCCCAAGGGGGG

&gt;Sequence 649

GAGATTGAGCTCCCGCGGTGGCGGCCGAGGTACAGATAGGAAGAATGTAT  
ATTCTGTGGTTGTTGGGTGGAGTGAATGTCTATGAGGCCCTGACTTCTT  
TCATTGAGGAACACGATTGAGAGCTTCTGCTGTGCAGTAGGGGGCATCAA  
TAGTTCATTTTCTTTTTATTTGTCTGCTACCAATCCATTGTATGGATTCAA  
CCTAGTCTGTTTATTCATTCTCCAGGCTTCCACCAGGCCATCTCTTTC  
ACTTCGGGGGCACCT

&gt;Sequence 650

GTGAGAATGAGCTCCCGCGGTGGCGGCCGAGGTACTGAGTGGGGAAGAA  
GGTAAGAAACAGTTGATTAACACCCTGTGTTCTGGCAGGTGGGATCAGCA  
ATATGTAATCCAACCTCACCTCATGTTCAAGGATGTCCCTCTGACTGCAG  
AAGAGGTGGAATTTGTGGTGGAAAAAGCATTGAGCATGTTCTCCAAGATG  
AATCTTCAAGAAATACCACCTTTGGTCTATCAGCTTCTGTTCTCTCCTC  
CAAGGGAAGCAGAAAGAGTGTGTTGGAAGGAATCATAGCCTTCTTCAGTG  
CACTAGATAAGCAGCACAAATGAGGAACAGAGTGGTGACGAGCTATTGGAT  
GTTGTCACTGTGCCATCAGGTGAACTTCGTCTATGTGGAAGGCACCATTAT  
TCTACACATTGTGTTTGCCATCAAATTTGGACTATGAACTAGGCAGAGAAC  
TCGTGAAACACTTAAAGGTAGGACAGCAAGGAGATTCCAATAATAACTTA  
AGTCCCTTCAGCATTGCTCTTCTGTCTGTAAACAAGAN

&gt;Sequence 651

GAGAATGAGCTCCCGCGGTGGCGGCCGAGGTACTGCGTTATGCAGAGGT  
GTCCAGCCCCCTTCTCTTCTGGAATTAACATTGGCTCCACCTTCCAG  
CAATTGCTGGACAGGTCAACATCTTCGTTTTGAACAGCTTTAATCAGCA  
AGTGATTGTCTTCCACTGCAGCCCTTCTACCGCTGGAGGACGTGGGTCCC  
TCTGTGGGTTGTTATGATCCCTGCTCTCCATGACGGTAAATGCCACCTG  
CTACCACTTTAGCCTTTTCCCTTGAGAAAAAGCAAATTTATCTCCTAGCA  
CTTAATCAAAGAAGCTTTGAGTGTAATTTGGGATTCTCTGGCAACAGAGC  
AGCAGTATGAAGAAGGAACAATGTTCTCAGTCTTCTGACATTCCACCTGC  
TCAACTCAGACGTCTCAATTATTCCTTTGGCAGCCGCAAGCCTGGAAGA  
CTGCTTGACGCCGAGCAGTTTCCCTCCTGCTGCCTCCGCGTACCAAGTGA



Table 2

GAAGGAAAGAGCATTCTCCTTTAGGGCAGCAATCACAAAN

>Sequence 652

GGAGATGGGTTGAGCTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACGCGG  
GGAGGGCCAGGTCTCAGGGCTCCTGGAGCTGCAGGCGGCGGGAGGGGCTA  
CAAATGCTTGACTCAGTGATGCAGAACCTTTTCAAGTGTAGCTGGAAGCCA  
CAGCCCTGCCTCTTGATGCAGCCTGGATCCAGCCGGTGTGAAGAGGAGAC  
CCCTTCCTCTTGTTGGGGTTTGGATCCTGTGTTTCTAGCCT

>Sequence 653

TTTTGCCGCTGACTCCCCGCGGTGGCGGCCGCCCGGGCAGGTACCTGTG  
AACTGAGGAATTATAGATAAACCTTAGGTCAAATCATTTGCAATTGCAT  
TGGTGGTATTGAAAAATGATGAGATTTCTCTGACAGAGAGCTTTGTCTTA  
GTTTTTGTCTTCATAGGTCAAACTGGCAATATTCTCTTGTCTGCAAGA  
TAAAGTGTTTGTGCTTCTATCACCATATGCATGAACATGTAAGAATCAGA  
TACAATTTCTGCTTCATCAGTTTCACATGTTTCATGTTGTCAGTAAAAAA  
TGCATCTACTGTTTATAGCTCCCAAGGAGACCCCAAATCCTTTTTTTCTT  
TTGAGATGGAGTCTTGCTCTTGTTGCCAGGCTGGAGAGCAGTAGCGCGA  
TCTCAGCTCACTGCAACCCCCACCTCCTGGGTTCAAGTGATTCTCCTGCC  
TCAGCCTCCCCAGTAGCTGGGATTTACAGGTGCCCGCTACCATGCCGGGT  
AAATTTGGTTTTAGGAAAAACGGGTTTTCCCTTTTGGCCCGCGGTTTTT

>Sequence 654

GTGTGGTTCGAGCTCACCGGGGGCGGCGAGGTACCTGTTACCACTTTAAAA  
GTAAGTTCTCCATCCCATAAAGCCATTTAAATTCATTAGAAAAATGTCCT  
TACCTCTTAAAAATGTGAATTCATCTGTTAAGCTAGGGGTGACACACGTCA  
TTGTGCTATATGTATGTGACTTCCCTCCCCCTGCCAGAATACTCCTTGGT  
CAATTGTAGGTATTCTTTTTGGTTTAATTTTGCCTAATGTAATTAAGATTGT  
TGGTATGTCATTTTTAAAAATTTGTATTTCTTTCATTACAAATAAGATTGT  
TATGTCAGTATTGTTATTGGCTTTTCGTATTCTCTTAACGTGAACCGTC  
TGTTCAATTGTTTTACCTGTTTTTCGTTTTAGCAAGTAGTACCTGCCCG

>Sequence 655

GATGAATTGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGGAAGTCGG  
CCATGGACTGGAAAGAAGTTCTTCGTCGGCGCCTAGCGACGCCCAACACC  
TGTCCAAACAAAAAAGTGAACAAGAATTAAGATGAAGAAATGGA  
TTTATTTACAAAATATTACTCCGAATGGAAAGGAGGTAGAAAAAACACAA  
ATGAATTCTATAAGACCATTCCCCGGTTTTATTATAGGCTGCCTGCTGAA  
GATGAAGTCTTACTACAGAAATTAAGAGAGGAATCAAGAGCTGTCTTTCT  
ACAAAGAAAAAGCAGAGAACTGTTAGATAATGAAGAATTACAGAACTTAT  
GGTTTTTGTCTGGACAAACACCAGACACCACCTATGATTGGAGAGGAAGCG  
ATGATCAATTACGAAAACTTTTGAAGGGTGGTGAAAAAGCTGGAGCAAA  
AGGCAAGCAATTTTTCACAACAAAAGTCTTTGCTAAACTCCTTCATACAG  
ATTCATATGGAAAGATTTTTTCATCATGCAGTTCTTTAA

>Sequence 656

GGAGGGAGTAGACTCACCGGGTGGCGGCCGCCCGGGCTGGTACGCCACAA  
GGCATTTAATGCCACAGTAACAGGGCTGTTTGACAGTGGCAGAAAGAGGA  
CGGGACTAAAGTTACTTTGTGCTGAGAGGGGGAAAGAAGCACAAAGTTTG  
GTCTGTTGCGTAATTGAATTTTTAACACTCTTATCCACAACAAACACTTT  
TTCGTGTCCTGCTGTGTAAGACATGAGATATATTACAGATTTTCAAAC  
AGGTGAGCATCCTTTTACGAGCTGGGCAGGTGGGGAGTGGCGTGGTTTTG  
ATGGAGTGAGGAGATTTGGATGAATGAACGCTAAGATGGCCAGACGCACC  
TCTTGGATCGTAACTCTGCAGGCTGGGATTCCAGAGCTGCAAACAACCAC  
TGAATTCGATCTGTAAACCTGTTGTCATTTGACGTTTGCAGGCAGGCATC  
AACATTTACATTGAGATTCAATAGACGCTACTACTACAAAGGAGCTTTAT  
TGTTGCAGCTTAAAAATGGTTGCTGCGGGAACACTGAAGGGTGAAACTGAC  
TTTTTT

>Sequence 657

GGTTGTGGATGACTCCCCGGGTGGCGGCCGGGTACATTCCAATGAAGAATT  
TCTTCATTCTGATCTCCTAGAAGACAGCAAATACCGAAAAATCTACTCCT

Table 2

TTACTCTTAAGCCTCGAA

&gt;Sequence 658

CCTTCTGCTACGTCTGTATTCTATTCCCTTGTGAAATGCTCTTTTTTAATA  
TACTTGTCTGTCGTATTTTACGTGTTTTATTTTCAGTTTTGGTTTATACTGT  
GGCTATGGTAATTGAAATGGGGGCGATGGAGCTCACGGGTGGCGGCCGAN  
GTACCTNGTGGGCNTTAGGTCAATGTTGTTATACACTTTCACAAAAGATT  
GTATCTTTGATCTCTTGGCGATCTTCTTCTTGCCCATGGCAGCTGTCACT  
TTGCGGGGGTAGCGGTCAATTCCAGCCACCAGAGCATGGCTGTAGGGGCG  
ATCTGAGGTGCCATCATCAATGTTCTTCACGATGACAGCTTTGCGTCCGG  
AGTAGCGTCCAGCCAGGACAAGCACCACTTCCCAGG

&gt;Sequence 659

GGAGTGAGCTCACCGGGTGGCGGCCCGCCGGGCTGGTGCGCCACAAGGCA  
TTTAATGCCCACAGTAACAGGGCTGTTTGACAGTGGCAGAAGAGGACGGG  
ACTAAAGTTACTTTGTGCTGAGAGGGGGAAGAAGCACAAAGTTTGGTCT  
GTTGCGTAATTGAATTTTTAACACTCTTATCCACAACAAACACTTTTTCG  
TGTCCTGCTGTGTAAGACATCAGATATATTACAGATTTTCAAACAGGT  
GAGCATCCTTTTACGAGCTGGGCAGGTGGGGAGTGGCGTGGTTTTGATGG  
AGTGAGGAGATTTGGTTGAATGAACGCTAAGATGGCCAGACGCACCTGTT  
CGATCTCAACTCTGCAGCCTGGGATTCCAGAGCTGCAAAACAACCACTGAA  
TTCGATCTGTAAACCTGTTGTCAATTTGACGTTTTTCAGGCAGGCATGAACA  
TTTACATTGTAATTCAATAGACGCTACTACTACAAAGGAGCTTTATTGTT  
CCAGCTTAATATGGTTGCTGCGGCAACACTGAAAGATGAAACTGACTTTT  
TT

&gt;Sequence 660

GAGTGAGCTCACCGGGTGGCGGCCCGCCGGGCAGGTACTATGACCTGAAG  
AGGCAGAGGCCATCACTGTTGGTCCGGTCTCCACCTGGGGAACTGAGGT  
TGACAGTGTCTCTGTGGTGACGAGCAGGGCTTCATCCAGTGCCTCTGTC  
CCCACCGAGGGGACTATGGGAGACATGGAGGGTGTGTGAGCAACAGGTGA  
GACTGGAGCCAGCTGAAAACCTGGGAGACCGACCCAGCCAACAAACAATGT  
CGGTCTCTGTCTTGGCACCTGCAGGAAACAAGCTCCTACTTCCAGAAAAA  
GTGCTCCTGGGACTCCAGGATACCAAGCATCTGGGTAAGCTACAATGCTT  
AACCACCTTAACACAATCAGGAAGCAACAGCCATGCATTCCGGGAAAGGAAC  
TTCAGTGTGTGGTCTCAGTCTCCAGACCTAACTTCCCTTTTGGTACCT

&gt;Sequence 661

GGCGTGGGATCGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGAGAGAC  
TTTTTTCTCACCATGAATGTCACCCAGAGGTCAAGAGTCGTGGGATGAA  
GTTTGCTGAGGAGCAGCTGCTAAAGCATGGATGGACTCAAGGCCAAAGGCC  
T

&gt;Sequence 662

GCGTGAGGTTGAGCTCCCCGCGGTGGCGGCCCGCCGGGCAGGTACTTTTT  
TT  
TTTGGACAAAACAAACGA  
GTTTTTTTAAATTTATTTAGGGGGAAGGAGGGGTGTCTTTGGATATACCAC  
AGCGAGG

&gt;Sequence 663

GTAGATGGAGTTGAGCTCACCGCGGTGGCGGCCGAGGTACTTGTGGAAGG  
TAGTGACCAGCACAGCCAGCGCTGCTCCAGAGAACTGCACATCA

&gt;Sequence 664

TATGCTACGGGGGCGGCGCCGGCAGGTACGCGGGGGCGGTATCTGTATCG  
GGCCTTACTGGCTTCAAGAGCCGAATTCCTTCCAAGCAACCCACAGGGG  
GACCCCAATTAAGGGTTTGGGACCCACTATTTTTTAATAACGCCAGCACC  
TTAAATGCGCTGGGAAGATGGTCTGTATCCTTGGAGCCTCAAATATACTT  
TGGATAATGTTTGACGCTTCTCAAGCTTTTAAATCGAGACCACCCAGA  
ATCTAGATATCTTGCTCAGATTGGTGACTCCGTCTCATTGACTTGCAGCA  
CCACAGGCTGTGAGTCCCCATTTTCTCTTGGAGAACCCAGATAGATAGT  
CCACTTGATGGGAAGGTGACGAATGAGGGGACCACATCTACGCTGACAAT

Table 2

GATCCTGTTAGTTTTGGGGACGAACACTCTTAACCTGTGCACACAAACTT  
GTGATCTAGGAAATTTGGAAAAGAATCCAGGGGAGATCTACTTTTTTCT  
AAAGATCAAAGATTATTTTGAGTGCCCTT

>Sequence 665

GGATAGATTGAGCTCCCGCGGTGGCGGCCGAGGCTAACAAGGAAAGCCCC  
TGGAGCTCCTGTAATAAGAAATGTGGTTGGAAGATGCAAACTGTGGATGAT  
CATCACCTCCATTTTCCTAGGTGTCTATTACAGTGATCATCATAGGCTTAT  
GTCTTGCTGCAGTAACCTTATGTTGATGAAGATGAAAATGAAATACTTGAA  
TTATCATCAAACAAAACATTCTTCATCATGCTGAAGATTCCAGAGGAGTG  
TGTGCTGAAGAGGAATTGCCTCACCTGCTCACCGAAAGGCTCACAGATG  
TGTACCT

>Sequence 666

GATGACTCACGGGTGGCGGCCGCCCGGGCAGGTTTAATCTCAGGTCTCCC  
TATACACTTCTCAGCCTCAGCACCTAACCCTCACACAACACTCCAGTATT  
GGATGCAGTCAATCTTGATAACATTTTTTGAATGTCCAATGTGCAAAGC  
ACGATGTTGGAAATTATACAGAGGTGAATAAGACAAAAACTCTTGCTCTC  
AAAGATG

>Sequence 667

TACGAGATTGAGCTGAGTTGGCGGCCGCGAGGTACTGGAGAGTCGGCTT  
TGACCATGGCCTCAGCTCAGCTCCAGGTTTGGAGCGGAATAAAACAGGAG  
CTAGCAAGATGTCTCATCTGAGCTTCCCAGTGCCCAACTTATCTGAGGCC  
TGGGGCTGAAGCCAGCGCTGACGGAT

>Sequence 668

TGAGGACTCACGGGTGGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTT  
TTTTTCTGGTTCGAAAATTTTTGTTGGAATTTTAAAGAAAANGAAAGGCAA  
AGTAGCACTCAGATGGCCTTTTTTGTAAAGTGAAGTCAACCTAATACTC  
TGGTGCTTACTTTGCAAATCTTTCCATAAGTCAAGTATTAGTGTTAACA  
ATACACTTAAGAAGTAAGGATAAACCCATCAAGGTCCACAGCTAAATAAC  
CAGCAGATTCCCAGAAACTTTATGTATTTGGGAAAAGTAAAATATACAAC  
AGACATATCCCTGCCCTGATTAAGAGGGTAGATAAAAAACAAAACATAAAA  
CAATTTTACTTGAGATAGTAATAAGTTATTTGAAAAAATAACAACAGAAT  
ATAGGGAGAGAGAGCAACTACAGAAAGACAGAAGGGGTCTGCTTTG  
AATAGTAAGGCTTGGGAATAGCTGAATTGTAAAACAAATCTGTCAAGTCCA  
AAAACGAAGATATTTCAATTCACCGCTGACTACTGAATGGGAAAC

>Sequence 669

GGAGGACTGAGCTCCACCGCGGTGGCGGCCGAGGTACAGAGTAGGATCAA  
TAAAATCTGTGTGTACAGCGGCAGACTGAAGGACGGGTGCCTGTTTTCA  
GCCATGAGGTAGTCCCTGACCATCTGAGAACCAAGCCTGACCCTGAAGTG  
GAAGAACAGGAGAAGCAACTGACGACAGATGCTGCCCGCATTGGTGCAGA  
TGCAGCCCAGGTTGGACTGAGTCACTGCCTTGCTGCCCCATCCCCATCCC  
ATCATGAGAAGCTAGGCATTACCATTCCTGTCTAGTAGGGATACATAGTT  
GGTTGCGCCTAAGTTGCTTCTGGCAGAACCCAAGGAATAAATTTCTCCAT  
ATCGTTTCTAGTTACCTAATCTCTGCACAAATTTGTGTGTTACAGAAG  
CAGATCCAGAGCTTGAATAAAATGTGTTCAAACCTTCTGGAGAAAAATCAG  
CANAGAGGAGCGAGAATAGCAGAGTGGGAGTATGATGCGACTGGTGGCTA  
AACAGAGAAGAGAGGGATTTACGATCACTGGAATGGATGGGTG

>Sequence 670

TTATGACTCACGGGTGGCGGCCGCCCGGGCAGGACATTCTTTTTTTTTTT  
TTTAAACTTTTAGGGTCTTGGCCTATTGCATACTAAAGGGCAAAGGCTT  
AGAGATATCAAAGGGGCTAATTTTTTATTGACAGACCATGGCGATGTAAA  
ATTAGCTGACTTTGGTGTGGCTGCAAAAATAACAGCTACCATTGCAAAAC  
GAAAATCTTTTATTGGCACCCCTTACTGGATGGCCCCAGAAGTTGCAGCA  
GTAGAGAAGAATGGTGGCTACAACCAACTCTGTGATATCTGGGCAGTAGG  
AATAACAGCAATTGAACTTGGAGAAGTTTCAAGCCACCTATGTTTGGATCTC  
CACCCAATGAGGGCTCTCTTCTTAATGTCAAAAAGTAATTTTCAGCCTCC  
AAAACATAAGGACAAAACAAAATGGGTTCATCAACATTCATATTTTGT

Table 2

CAAAATAAGCACTAATCAAAAAAAAAAAAAAAAAAAAAAGTACCTCGGCCG  
CTTAGAACTGANTGGATTCCCCGGCTGCAGGATTGCATATCAGCT

>Sequence 671

GTCGATGTTGAGCTACCGCGGTGGCGGCCGAGGTACGCGGGGTCTTCTCA  
TGCTCCGTGATGCATGAGGCTCTGCACAACCACTACACGCAGAAGAGCCT  
CTCCCTGTCTCCGGGTAAATGAGTGCGA

>Sequence 672

GATGACGATCGAGCTCACCGCGGTGGCGGCCGAGGTACTCTTCTGCACTG  
TTCTTTCTTTCTAATAAAACTTTCTTTTTCGAACCTATACTGTCTTCTGT  
AAATTCTTCTTACTACCCCTATGACCCGTGAGCCAACCACTTTCCGATGCC  
AGGGTTCTGACACCTCACCTGGCATAATATAAAGTGTTTTTTTTTATAC  
CCTTCCACTTGGAAAGACTACAGAGGAATCTTGCACTGCATAGTTCAAAC  
TAAAAAGAGAAGAGTTAATTACCTGAAAAGCAAGAGAAAACAAGAAGGGG  
TAAATTTTGAACCAAGGAAATCATTTAAGAAGTGCTGGTATTTTTTCAA  
ATTTCTGTCAGTTGTTACATTTGTCTATAAGTAAATGTTTAGGAATAAAGG  
ATGGAGACATGCTTATTTTATTTAACTCCCCNNNNNAAAAAATAAAAA  
AAAGTACCTGCCCC

>Sequence 673

TGCGTGTGGATTGAGCTCCCCGCGGTGGCGGCCGTCCCTCTTAATACTG  
GCCTCAGTTCCGAAAACCAACAAAATAGAACCGCGGTCTATTCCATTAT  
TCCTAGCTGCGGTATCCAGGCGGCTCGGGCCTGCTTTGAACACTCTAATT  
TTTTCAAAGTAAACGTTTCGGGCCCCGCGGGACACTCAGCTCCGCGTACC  
T

>Sequence 674

GCGCGTGACTACCGGGGGCGGCGAGACTGAGCCACACAGTGTCCGGATG  
GAAGTCTGCATCTGAGGTTGCTCAGTGTCCTCCGTCATTCATTTACACATT  
TTAACTTGCAATAAAGAGCTGTTCTTTTCTGTGGCCTAGACTCTTTTCAC  
TGATCTCAAAATAAACTGGTTTTTTTCAAAAAAAAAAAAAACAAAAACAAA  
AAAAACACAAAAGCTGCATGTCTAAAATTACATGGAGTTAGTGTCTATTCT  
TTTTTCCCCTTTTGCAGCAACTTACACAGCATTTTAAACACCTTTTTTTT  
CTAGTTTTTTTGTTCGGTTTTTGTTCATCAGGAATTTGAGTTCTCTCT  
AACCCAGCTTACTGTGGGACATAGGAAAACCTCAGTAGAAATACCTTTGGT  
GATCTTGTGAGTTTAAAGTCTGATCTTGAATCTTAACTCAGTAAGCCACT  
ATCTGCAATTTTGTACCTGCCCC

>Sequence 675

GTTGATGTAGAGTTGAGCTCACCGCGGTGGCGGCCGAGGTACGCGGGGCT  
GTAGTGGCTTCGTCTTCGGTTTTTCTCTTCCTTCGCTAACGCCTCCCGGC  
TCTCGTCAGCCTCCCCG

>Sequence 676

TTTTTGTGTTTGATCGAGCTCACCGCGGTGGCGGCCGCGAGAGCACAGAT  
GACCACGCCATCGTCCAGTATGAGTGGGCACTGCTGCAGGGGGACCCGTC  
AGTGGACATGAAGGTAACGCATGTTGTCACTGC

>Sequence 677

TGAGTGAGCTCACCGGTGGCGGCCCGCCGGGAGGACGCGGGAAGGATT  
CTGTAGTATGTAGCGTGTTCCTTAGGTAAAGTCTCTTTTTGCTACTGAAA  
GGGAAATGGTCTCTAAACACTGGTCACTGTAGCAGGTAAACACTACTCTA  
ACGTGGAGAAAATGAGCTTCATGCTGAGGTAGTGGTTGCCTTAAAGCTGTT  
TTTTATGCTGTAAAAACCAAATGGGTTTGGTTCCCTGATAGGTTTAAAT  
TAAATTTGCCTTATAGTTTCTTTCCCTCGGGCCCAGATACCCCGGGA  
GGTTTTCCCTTTTTTCCGGGTTTTAAAAAAGGGTTTTTTTAAACGGGGG  
CCCCGGGTCCCCACCTTTTTTTTGGATTTTCGGCGGGGCGGTTTTAAAAA  
TAGGGGATCCCCCCCCCGGAGGAGATTGATTTAATAAATTTTTTCCCC  
CCCCCTTCGCCTTAGGGAGGGGGGGGGCCCCCCCCCTTTTTTTTTTTT  
TTTGAAGAATAACCCCGGCCCCCTCAATATTATCCGGGGAATTTTTTT  
TTC

>Sequence 678

Table 2

GAGAGTGAGTGAGCTCCCCGCGGTGGCGGCCGAGGTAAGTCTGTGGCAGACG  
TCGATGATCGAGTTCAAGGCTGTCTCCAGCTCGGCCAACATGA

>Sequence 679

TGAGTAGTCGAGCTACCGGGTGGCGGCCGCGGCCGAGGTAAGTCTGTGGTGT  
GTGATCGGAACGTGTCTGATCCCCCTCTTCTCATCACTGCTGCTCCAAGTGG  
ATTTATTACTCCGGGAATGGTCTGAGGGGGAAAAACCAATGTGTTTAGCGT  
GCCTGCCCCACTGCGCCTGAGCACAACTATCCTGCAATCTGACCTGCCCC  
TCCTGCACAGGAAACCACTTCCCCCTCCCAATTGATGGTTCAAACACTGC  
CACCGCTGACTGCCCTGCATCTGTGGGTCTGTAGAACAGAAAGGCAGAAC  
AACTTATTTTTTAGGATTTAACGACAACCGGTTGAAAAAACGGTAGGGT  
GTCATGCTCACAGAGAATAAAGATTTGTAGAAAAGGTGCTGAAGTGCCAA  
GGAAGGCATTTCTGTGCGGTGTCTGGAACCGTGTATCCTTACTACATCA  
CTGAACGACACCAAGCACCCCATGCACTTCTGGGGCCAACCTTGGCCCCCT  
GGAGAAAGACACCTGAATTTGGCATGCAGTCTACTTCCN

>Sequence 680

TGAGATGTGATTGAGCTCCCCGCGGTGGCGGCCGCGGTACAAGGGGAGGTA  
AGATGGGAGCTCCACTCCTTGGACCACCAGCTGGTCTTGGACCGTATCCC  
CATGAATCTGTTTGAACGTAAGGAGGAAGTCAAAAAAGTCTTATTTAGG  
GTTTCTTTGAGATGTGGGGGCCACTTCCATTCCCACCGGCACAGGTAGGC  
ACGGGCATACACCGACACTAGTGGGTCTCCGATCCCTCTGATCATGCATG  
TCAACCGGGGCAGGCACTCTGAAATTTCCCGTTTTGGAGAGGAATTTGTTA  
CATTTACAGGATGGATGCCTCCACGTAATACTTGGAAAGAGTTCCTGAT  
GGAGGCAATCTTGA AAAACCAATTTAGGCATGTTTCCTTGGCCGTGTCTAT  
TTGCAATCTCTGGAGAAAAGTGATCTGGTAAGACGCTGCGGCTATCCACA  
CACATGGAAAAGATGCGCTCGTACCTGCCCCG

>Sequence 681

CTCCTCCACATGTATTTAATTTATTTATTTATATATTTATATATAATTTT  
TACTAAAAATTTTATACTATATTGATCATATATAAAATATGTTTATATAT  
ATACTTTTTATTCTAAAAAGAGTGTAGGAACTCTCGGGTGGCGGCCGA  
GGTACCCCTAATGTAGTAGTAAATTTAAGGCCTGTGAGGAAATTTTAACA  
CTTCCAACAGGTGACTATATCAGGAAGGAGAAAACCAAGTGCTTCCTGCT  
TCACCTTCTGCTGCTTTTGGGACTTTTATGAGCTAGTTAGCTAAGGACA  
AGACCCTGAACCCATTTTTTCACTGGGAGAGGAAAACCAAGGCTTCTC  
AGCTTTGGCTTGGCAACTCTGGAGTTCCTATGGCTTCCATCAGGGCTCCA  
GGACCTGATAAGTGGCCTCAGGCAGGAGGAGATCGGGAGCGGATGGGAG  
AGCTAGTCAGGAAGGTGGAATAGGGACCATCCCCAACACGTTGGCGTAT  
GATGATTTGAGGAACTGGACGTAGTTCTGCATGCTGCGGTTGGAGCTTTC  
GGACTGCTCCAGGCGATCTTTCAGGTCTTGCAACCGGCTTTGGTAGCGGC  
GGTCCGCAATTATAACGGGTTTCGCCGAGATGGTTAAATTC

>Sequence 682

GATGGGATTGAGCTACCGCGGTGGCGGCCGAGGTAAGTCTCGTTTCAGCT  
GGGCTCTTATGGCCAAACCGCTCGGCTTGGCGCCGCGGGTTTCCGGAGAT  
ATGTTGTATTTCGGCTGGGTGAGGGTCTCAGGCAGAGTGCGCAGGCTCGA  
CGGCTTATACTTTGGGAACGACA

>Sequence 683

GACAGTGACAACCGCGGTGGCGGCCGCGGCCGAGGTACGCGGGATGGCA  
CATGCAGCGCAAGTAGGTCTACAAGACGCTACTTCCCCTATCATAGAAGA  
GCTTATCACTTTTATGATCACGCCCTCATAATCATTTTCCTTATCTGCT  
TCCTAGTCTGTATGCCCTTTTCTAACAACCTCACAACAAAATACTAAT  
ACTAACATCTCAGACGCTCAGGAAATAGAAACCGTCTGAACTATTCCTGC  
CGGCATTATTCTAGTCTTAAAGGGCCTCCCATCCCTACCCATCTTTTAAA  
AAACAAAAAGGGGAAAAAGATCCCCCTTCTTTCAAAAAAATAATGTGGCC  
CCAAAGTTTTTTGGCCCCCTCCGGGGCCCTCGGGCCTTTTATAAAAAAGGG  
GGACCCCGCGGTGTGGAGAGAAATATTATAAAAGTTTTTTTTTCCCCCCC  
CCCCCGGGGGGGGGGGCGCCCCCCCCCATTTTTTTTTTTTTTTTATGGGG  
GAAAAAACCCCGCCGAAAAAAGAAATATTTTTTG

Table 2

## &gt;Sequence 684

GCGTGACTCACCGGGGGCGGCGGGACCCCATGCAATATATGGCTCTACAA  
TCCTCAGCATGTTAATCGAAGCCTTGTTGAGCTTCACAAAGGTTCCATTG  
AAGATTTGACGAAGGCGAAGAAGCTGCAACACCTTTCGAACCTTTGGGCT  
CACTCCATTGATACCTCTGATTCTGATGACAAACGCCAATTTGGGTTCTG  
CAGGTACGAGGACATTTTGCCCCGCGGCTTGTTGGGGTCTCCTTTACCCA  
TGTTGACAGATCCGCGTCCACCCGAGGGTATTGGAGGGTATTCTTGCCTG  
GTGCGAGCTTTTCTCAGAGTCCCGCAGA

## &gt;Sequence 685

GAAGTGTACAGGGTGCGGCGCGAGGTACTTTTTTTTTTTTTTTTTTTTTT  
TTTTTTGAGATGGAGTTTCGCTCTTGTTGCCAGGCTGGAGTGCAATAGA  
GCGATCCCAGCTCACTACAACCTCCGCCTCCAGGTTCAAGCAATTCTCC  
TGCCTCAGCTTCCTGAGTAGCTGGGATTACAGGCATAAGCAACCATGCC  
AGCTAATTTGGATTTTTAGTAAGATGGGGTTTTTCCATTTTGGCAGGCGG  
GTTTTGACCCCCCACCTAAGGGGGGCACCCCTCTGGGTCCCAAAAAGGG  
GGGTTAATAAGGGGGGGGATTCAATCCCCCGGTAAAAAAGAAACC  
CCCCTCCCGGGGGTGGTAAATTTTAAATATGTTTTTCCCTCCCCCGGG  
GGGGGGGCGCCCCCCCCCTTTATTTTTTTGGGGAGGGGCCCTCCCC  
CCTTAAAAAAGAAACATTCTTTTGTGGGGTGATTATTAACACCCCAA  
ACCCAGCGGGGGG

## &gt;Sequence 686

GTACGACGATTGAGCTCACCGCGGTGGCGGCCGCCGGGCAGGTACTTT  
TTTTTTTTTTTTTTTTTTTTTGGTTTTTTTTTTTTTTTTTTTTTTTTTT  
TTTTTTTTTTTTTTTTTTTTTAAAAACAGGAATCTTCAGACTTTATT  
AAAAAAGGCCCTAAGGGGCTCTATTAAAAAGGTATAAAAACCCATA  
AATTCGGGGCCCCCTGGGCTGGGCAGGGTTGATATCCCTTAAAGGGGAGGA  
AGGGGGGGGATGGGGGGTGAACCGGGGACTGGGGAAGAGGACCAGGGGGC  
ACATTGTTCTCGGGTTTGGGTTCAAAGATGGAGCGGGGGGGGATATGGG  
GGAAAGGGGGCCACGGGTTCTCACGCAACAACGGGGGAAGGCCGGCGACA  
GTTTTTTCCCAAAATTCTGGGGGAAGGGGGTCCCT

## &gt;Sequence 687

TGTTGATATCGACTCCCGCGGCGGGACGCGGGGCTTTACATGGCAACAAG  
TATGGCGGCTGCTAGTGGTAGATTTGAAAGTGCGAAGAGTATCGAAGAGC  
GGAAAGAACAGACCCGGAATGCCAGGGCCGAGGTGTTGCGCCAGGCTAAA  
GCCAATTTGAAAAAGAAGAAAGGCGTAAAGAACTTAAGCGACTTCGGGG  
TGAGGATACATGGATGCTACCTGATGTGAATGAGAGAATTGAACAGTTCT  
CACAGGAACACTTTGTGAAGAAAAAGAAGAAAAAGACAAGCTTCTATTT  
AAAGAAGGGAAGATTAATCAGTACCTGCCCGGAGT

## &gt;Sequence 688

GACGCGTGAGCTCACCGCGGTGGCGGCCGAGGTACACTCGCCAGCGGTTT  
TGCCACAAGAGTATACGGAACAAAGGAGACAGGCTCATTTATAATCTGAC  
GCGGCCACCTCCTGCTGCGTTTCGGTTTCCA

## &gt;Sequence 689

TGAGCGTGAGCTCACCGCGGTGGCGGCCGCCGGGCAGGTACAAACTGGG  
CACTGGATAGGTAGTTCTTTGGTGGTCAAGGTGGCTCTACCTGTCCTTG  
AGCTCTCGTGCTACTCGCTTGGTGATCCGTCCACACATCAGGCCAATCAG  
GAACAATATACAGATGCTCCCACTGATCACAGAGAGAATGTAGTTCTTAG  
ATGGAGACGTCACTTACTTGCATGGCAAGATCAGAGAAGCCATCTGCTGGG  
GCCACCTAGAATGACACAAGGCAATGTGATTCTCTGAGAGAGCACTGGGC  
TGGTGGCAGTGCTAGGTCTAACTTATCCCTCTCAGTTCCTAGTTTAACTT  
ATGTCTTTTCTTTTGGAGAGGGAGGGCAGGAGATAAGAAAAATCAACACA  
GAGCTACAACCTTTTTCTGGTCATAAACTATACACACGTCTACTGCA  
CAAAATTAGGAATACCAGAAGAGCCAAAGTGGTGCAGTCACCCACAATTT  
CTCACAGTGATCACCATAACACCAGGACC

## &gt;Sequence 690

TGTTGACTGTGACTCCACCGCGGTGGCGGCCGAGTTTGATTTCTTGCAGT

Table 2

CTGAGCGATGGAGCCCGGGGGTGCCTGGTTATTGTCCGCTTTCTCTCTC  
AGATGCTTGGCTTGTTCATCCATGTCCTGTGTATCTGCTGGCAACAGGTC  
ATCGATTGGATCCAGTCCTTGTTCAGAAAATTGT

>Sequence 691  
GGAGACGGAGCTACCGCGGTGGCGGCCGAGGTAACAGGAAGAACTA  
GAGGAAACGGGAATTTTCATCCATGTCCTGTGTATCTGCTGGCAACAGGTC  
AGAACGGCCAGTATGTTATTCCTGCAGGCTGCCTAGGGTGCTCTCTCA  
AACAGATCACCTGAGCCTCCTGCATCTATGAAGTTATGACACAGCAACCA  
GTTACTCAGAGTCTGATGAGAAAAACAGATTTTAGGTTTGGGAAATGGGA  
TTACTGTAATTTACACATCCAAATGCAAACCTGGAGCTCTGATTGAATTCT  
ACCCTGGGGAGAACTTGATGCTAACCACAGGTACCTGCCCC

>Sequence 692  
GAGTGAGCTCCACCGCGGTGGCGGCCGAGGTACACCAAATGGTGACATCC  
TTTACCAATATAGATTACTTCATACCACATTGTCAAGGAAAGGACTAGA  
AGAATTTTGTATGACCCAAAAAAGTGGGGCAAGAAAAAGTAAATCTG  
GAGCAGCATGGACCTGTCAGCAACTAAGGAACAAAAGTAATGAAGATTTA  
CACAACTTTGGTATGTCTTACTGAAAGAAAGAAACATGCTTCTAACCT  
AGAGCAGGAGGCCAAGCGGCAGAGATTGCCAATGCCAAGTCCAGAGCGGT  
TAGATAAGGTAGTAGATTCCATGGATGCATTAGATAAAGGTTGTCCAGGA  
AAGAGAAGATGCCCTAAGGCTTCTTCAGACTGGTCAAGAAAGAGCTAGAC  
CTGGTGCTTGAAGAAGAGACATTTTTGGAAGAATAATTGGGCACAGGTTT  
AAGCAGGGGGGTTATACCTGGGCACCCTAATAAAAGATACAATTGGAAAC  
CGATCTTTGCTTTATGCGCTTTATGGGACCCATTCTTAACTG

>Sequence 693  
CTGTGGAGACTAAGTGTGAGAGGCTACCGTCACAATCATTTTGGGGGGG  
CCGGACTCCCCAGCTTTTGTATCCCTTTAAACGCGGGTGTAACCAGGCT  
CCCTTTGATGTGAATATCCTCGACCCTCCCTTGTATGACGCGCGGTAA  
TCTATATTAGTGCCGTTTATTACCTTCTCTCCCTAGTTAAACCTAACCC  
CGTTTGGGCCCTAGGGTCGTTTAAAGGCCTTGGGGCCGGCGTGATTTAAA  
TTTTCTCTCAAAGGCCTGTAATTTACCGTTGTTTCCACCTGAAACCA  
CGGGTGCG

>Sequence 694  
TTAGCGTGAAGTCCACCGCGGTGGCGGCCGGGTACAAAAACAGGGGCTAGAG  
CTTCTACTAGGTCTCTGTTGGGGCTCCCTTTCTCTGAACCTTTGGCCAAA  
GACAACAGGATATTCTTGGGGGTTTGTGTTGTTTGTGTTGGCATTTTT  
CTGTGCCTGTTGGTGATTCCAGCACAGACCAGAGTGCCGCGTACCTGCCC  
G

>Sequence 695  
GAGGACTACCGGGGGGGCGCCGGCGGTCTGTATAATGGAGGCTGACCAGA  
GCAGTTTAGGAGATTGTAAAGGGAGGTTTGTGAAGTTCTAAAAGGTTCT  
AGTTTGAAGGTCGGCCTTGTAGATTAAACGAAGGTTACCTAAATAGAAT  
CTAAGTGGCATTTAAACAGTAAAGTTGTAGAGAATAGTTTGAAAAAAA  
AAAAAAAAAAAAAAAAAAGTACCT

>Sequence 696  
GGGTCGAGACTCACGGGTGGCGGGCGGCCGAGGTACAGCAGGGTGCCCTCA  
GCAAGAGAGGACTGAGTGGAATTTTCCTTAGGGATATTTATGAACCTTAAA  
GCAGGAGCTTAAAGGGAATTTGGGCCATATTAACCACTTAGGTCATGATA  
AATGATTACATTTTGGACATTTTGGTGTCTTAATGTCAGCAAGGGTTGC  
ACGATAAGTTTGGACATGCATGCATGGGAGACATGTAGAAATTCTAGTTA  
CTTACAAGTTTGGGGAAGAAGCCTGGACCCAGATGCCAGCTTTAAATA  
ACAGGGGAGTCTAATTACTTCTAAATTCCTCACATAGGGAGTTTGCCTC  
TGGATGGCCTGCTTGATGGTCACTAGGGTGATCTTTTGGCCCTTTTATTC  
TTAAAGCCTCTTGCTCTGGAAGGGGGTTTTTGGGCCCTTTAAAAAATTTGT  
GCCCCGGAATAATGGGGGAAAAATTTTTTGGCCCCCCCCATTTAAAAAAA  
AAACCTTTTATTTGTGGGGGAAAAATGGCCCCCCCCACCCCGGGGGGGG  
CCCTATTTTTTAAAGGGGGGAAAAAACCCCCCTTGGGGGGGAAAAAAA

Tabl 2

AAAAAATTTTTTCTCTCCCCGTAAAAAAATA

&gt;Sequence 697

TTTAGATGAGTCTCGGGTGGCGGCCCGGCAGGACGCGGAGAGACAGC  
GTCAGGCGCTTGATTTCCCTGAGTCCCGGTGCCTCAGCTGCCCAGTGCCC  
ACGTTTCGTAAGAAGGCAACAAGTTCTTCTCCTCTACAGAAGGATTTGCA  
AACAAATTCGGCAAGTTCCAAATGATTCTGATCGCAAATACCTGGAAGATT  
GGGCAAGAGAAGAATTTCAGAAGAAACAAACGTGCCACCGAAGAGGATACA  
ATCCGGATGATGATTACTCAAGGCAATATGCAGCTCATGGAGTTAGAAAA  
AACACTTGCTTTAGCAAAATCTTAACTATAGCATTATTCTGAAGGATTTT  
CAAAGTCTCCATGTGTCTTTGCTGCATTTAGGATTAACAATGGACAACCC  
CAATGCCCAAGCTTACTAATTAATAAACCTGGC

&gt;Sequence 698

CGGTTGATGTTATACCTCACCGCGGTGGCGGCCGAGGTACACGGCCCGCT  
CGTAGGGATCGTGTGTTGTTCCCTGACGACCCTACGGTAATGCAGCCGGAGC  
TTGTTTTCCGTAGCTGGGGACAATCTTCTGTCTTGTGTTTCATGTCTGTG  
GAAGAGAGGGGAGAGTCTTGTCTGTGTCACCCAGGATGGAGTGCAGCGGC  
GTGATCTCAGCTCATTGCAACCTCCACCTCCTGGGTGCAAGCGATTCTCC  
TGCTCAGCTTCCCAAGTAGCTGGGATTACAGGCGTGCACCACTACATCC  
AGAGACTGGGACTACAGGCATGGATTTTCAGGTTTATAACATGGCAGAGT  
GAATTCTGGCAACACACTGAGTGATGCTTGTCAATGGCCACTATCAGGAA  
TTTAAAAACAAGATTTGGAAATTATGACATCTGGACAAACCATATGCAAA  
ACCTACCTTTTGGTCCATTCTCCAGGGCTTCTTCTGCAGCTTCTGGTTCC  
AGTCTTTTTTCGGAGCTGTGAGTGTGTGTTTGGCCTGTCCATTAAGTGA  
CATCATATTACTTGGGNCCCGG

&gt;Sequence 700

TTTCTCACAACTCATTTTNTATTAGCAATTTCTTCTTGATGCATCTAGT  
TATTTCTATAACTACAATTCTACATTGCAAGTAGTTCTGTATATATTCTG  
TCTTCTTCATATTTTTTAGTTNTCNNTTGTGTTGTGATTACCGTGGTGG

&gt;Sequence 701

AGGTACGCGGNGGAGAGAGGAAAAAGAACACAGATCTCGCATGGTTCAGAT  
TTTTCTTTTTTAGGTCCAGGAGTAAGATATATCATACGAAATGAAAATTA  
TAATGGCTTCTTGGATTCCCTGGGAGCCACATTGTCAGCCCCACTTATCCC  
ACAGCGTCTCATGTCTGCAGCAATAGCAATGAGTTACTTCTTAATCTTAA  
TAATGGTCAACTTTTGCCACTACAACCTCAGGGCCCACTTAATTCATGGA  
TTCCACCTTCTCTGGAATTTTACAACAGCAGCAGCAGGCTCAAATTCCA  
GGACTCTCCCAGTTCTCTTTATCAGCTCTAGACCAGTTTGTGACTGCT  
CCCAAATCAGATACCCTTAACAGGAGAGGCCAGTTTTGCCCAAGGAGCCC  
AGGCAGGCCAAGTTGATCCCCTACAGCTTCAAACACCGNCTAAACACAA  
CCAGGCCCCAGTCACGTGATGCCCTATGTATTCTCCTTCAAATGCCTCA  
AGAGCAAGGACAGATGTTTCAATACTATCCAGGTTACATGGCCCTACCCT  
GGGAACAACCCTAGCAAAACAGTTTCAAGGGCACCTAAACAAACAGGACAG  
CAACAGTTTTGAGGAGCAGATACCATTCTAGGCTCAAATTGGGATCCATT  
CCACAACCTAGCAAGAACCTGCTTTTATTAAGGAGAGGGGCACT

&gt;Sequence 702

TGTGATGACTACCGGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTT  
TTTATGAATTATTTATTTCTTCTCAGAAAAGGATGCGCCTCCACTTAG  
CAAGGCTGGGCAGGATGTGGTTCTGCATCTGCCACAGACGGGGTGGTTC  
TAGA

&gt;Sequence 703

GTGAGCTCGGGGCGGCGCCGGGCAGGTCAGACCTGAACGCCCAAACACT  
TCCTGCAGATGTTGTCGTTGGAAAACTGTCGTCTTACAGAAGCCAGTTGC  
AAGGACCTTGCTGCTGTCTTGGTTGTCAGCAAGAAGCTGACACACCTGTG  
CTTTGGCCAAGGAACCTCTATTGGGGATACAGGGGTGAAGTTTCTGTGT  
GAGGGCTTGAGTTACCCTGATTGTAACTGCAGACCTTGGTGTACAGCA  
ATGCAGCATAACCAAGCTTGGCTGTAGATATCTCTCAGAGGCGCTCCAAG  
AAGCTGCAGCCTCAAAACCTGGACTTGAGTATCAACCAGATAGCTCGT



Table 2

GGATTGTGGATTCTCTGTCAGGCATTAGAGAATCCAACTGTAACTAAA  
ACACCTACGGTTGAAGACCTATGAACTAATTTGGAAATCAAGAAGCTGT  
TGGAGGAAGTGAAAGAAAAGAATCCCAAGCTGACT

>Sequence 704

TGAGATGCTCCCGCGGTGGCGGTCTGCCCAGATCCATGATGTGCAGTTCT  
CTGGAGCAGGCGCTGGCTGTGCTGGTCACTACCTCCACAAGTACACGGG  
TCTATTTGGCCGTGACCTTGCTCTGGAGACGATGATATCCCTTCAGCCTG  
AGGGAATTGATGTTGATGAACCCGGAGGCATCAGTTGGCTCATAATCACC  
CTGCACGTTTCATGCTCACCAGCTCCTCATTGTTTCAGAGACAGTGGGGACT  
CCCGGCCGAGGATGTACCT

>Sequence 705

GTGACTGGCTCACC CGGTGGCGGCCGAGGTCCGACGCAGCAGGC

>Sequence 1082

ACTTTTTTTTTTTTTTTTTTTTTTCTGGTTAACAAATATTTTAATTCA  
TTAAAAATAAACTTAAAAATTACATGCTAGTCTACACAAGTTTAACTTAC  
TTTAGTCACTTAGTGAATTGTGAATTGGCTCCCATAGTGGTCAGGAGAA  
TGTATTTGGTGTAGAAACCAATAAATCAAGCTATTATCGCCTTGTGAGT  
ACC

>Sequence 1083

CCCTTCGGCCCGCCCGGCAGGTAAGTGCCTTGGACGAACAATA  
AATATAAATATTTATTAATAAATATATTTTAAAAAATAGGGAAAAAAA  
AAAAATAAAAAAAAAAAAAATTTCTTGGAAAAAACTAAAAGAGAATCAAA  
GATTGCGGGTTTTTAATTTTAAACCAATTTATAGTTATTTTAAATTATT  
ACCTTTAACTTTTTTGTGAAATTTGACTTTTTTTTTGAATGTAGCCTTTT  
TTTTTAGTGTGATTTTTATGTGTTCCAAATTAGTTTTTTTTTATTGAA  
TAAAAATTTTTTTTTTGGAAAGTTTACTTCTTTCAAATGTTTTATCCTT  
TTTTAAATTTCTAGAAATTTTAAATATTTAATGGTTTTAAAGTATTTT  
AAATTTTTTATAATATTCAAAAAATAAATTTTAAAAATAATATATTGAAT  
TTTTATTTTTTAAACCGCCATAATGTGCTAAGGGACGATTTTCATTCATTG  
TTGCTTAATTGAGAATATGGGGGTACAATTGGTAGGTTATAAATATTTGG  
TTATTTTATTGTATTTTCAATTTTTTCTGTGATAATAGGTTTATATTGTTA  
CAATGTTTCAAACCGATTTAAAGGTTATATGTTTTAAATATGATGACTA  
TGGGAGACTATTAAGAGGTAGATACGGTGGAGTAATTGGGTTTGGATTAA  
TTTAATGTTTTTCGATGTGATTATTGACGGTTATCTGATTTATAAAATT  
GGAAAACATGTGGTGAAAGCAATATGTTTAATAACGCGATTTTCGTGTTG  
AGGAATTGTGCCTTTTTGGGTTTGTG

>Sequence 1084

GGTACACATTTTTCTGAAATGTCCCCGTGATTAAGTTGTGAACAAATGA  
ACATGCCACATGTCAACAACTGAACAAACATGGATTGTTAGTGACTTAG  
AGGTGGAGGGAGGGCTAGAGAGAGGCTAGCTGTGTTGGTCTGCCAATCTC  
CTGTGTCCACACTGGCTACAAAAATACAACCACTGGGTAGGTAGGGCTC  
ATCTAGAACCAAAATTAGGAATAAGGATTGAGAAGAAAACCTCAGCAAGGG  
TGATGAATGAGTTTCAGCTCATTGCTGGAGTTAGCTGAAGAATGAATAGG  
ACACAGTGGATGAAGGAACAAGCTATTCCGGGGACCTTTTGAAGCCCTCG  
GACCTCACATCCCTAATAGCTAAAGAAGGATAAAATGGATGTAAGCCAGT  
GCTAATCGTTCCCGCGT

>Sequence 1085

GGTACCACCTAACAAATTGGAGGAAATGAAAAGACGAATCAACAACATTT  
TGGAGAAAAAATTTATTCTACTTCTAGAAATTTCACTAACAAGTGNCTT  
AGTTCTTGGTTTGGTAGATGAAGTGAAATCAAAATTGGATATTTGGAACA  
TTAAATATGGGAGCAGAGAATCTGTGGAATTATTGCTGGAAGACTGGCAT  
AAATTTATTGAAGAAAAAGAATTCCTAGCTCGACTTGATACTTCTTTTCA  
AAAATGTGGAGAAATTTATAAGAATTTGGCTGGAGAATGTCAGAATATTA  
ATAACAGTATATGATGGTGAAATCTGATGTTTGTATGTATAGAAAAAAT  
ATATATAATGTGAAGTCCACTCTACAAAAGTGTGGCATGTTGGGCTAC  
TTATGTGGAAAACCTTCGCTTACTAAGGGCTTGCTTTGAGGAGAACAAGA

Table 2

AAGAAGAAATTTAAGAGGTACCTGGCCGGGCGGGCGATCTAAAGGG  
>Sequence 1086  
ACTTTNTTTTTTTTTTTTTTTTTTTTTTTTGAGACAGGGTCTCGCTCTATC  
ACCTAAACTGGAGTGCCTGGTGCAATCTCGGCTCACTGCAACCTTCACA  
CCCCAGGCTCAAGTGTCAATCCTCCCGCTGAGTAGCTGGAACACACGT  
GCGCACCACTAAACCCAGCTGTTTAATACACCATTTTTAACCCAAAACAT  
TAAGAAAAATATAGGAACAGTAAGTAGATTACATTTTGTAACAGACAAG  
CTTACAAGTTTTCTCAAATATGAAAGTCATACTAACTGGGAGACTGTTA  
ACTTCTTGATGGGGTTAATCTCTAATATGAAGCCACAGTCATAGCTAACT  
ACAAATTACATATACAATGCCAAAAATATTCAAAAAATAACATTTTTTGCA  
CCTTAATGATTACAAATGCTAACCAGCATAAAGACACTGGAAAGTTTCAG  
AATCTCCTCATCACATACTTTCAAATATCTTCCCTTTACTTCCATGAAAT  
TGAACGCGGGATTCTATGTAAGTGATGACTTGTCGAAGGTTCCAGGTGTAT  
CTTAACCTAACTAAAGAATGCCCTAAGTAGATGGGTTTTGAGCCTATA  
CAATTGGTATTGGTTGACCTTTAACCTTTACCTCTCTTAACATGGAGGAC  
GAAGAAAGCTGACCTTGGGCGCAACCACCTAAGGGCGAAATTCACACAC  
TGGGGGGCGGTATTATTGATACCACCTGGGACCAACTTGGGGAACATGGA  
>Sequence 1087  
ACCCAGAAGGGCAGACTTCAACCCAGAAACAACCTGTGAATTGTGATGGAG  
AGATGGGCTCTAGTATCTGAACAACGAAATTATACTTATAGACTACTTTC  
TTTTCACAGAACAAATGAGCTTTCTTGGCTTTTAACAAAATTATCATTGA  
AAACTACAAAATTAAGATCACCCATAATCCC  
>Sequence 1088  
ACATCCTTTTGCATGCTCAAGAGCCCATTTCTTTTCATCATTCGGAAGCAA  
CAGCGGCAGTCCCCTGCCCAAGTTATCCCACTAGCTGATTGCTATATCAT  
TGCTGGAGTGATCTATCAGGCACCAGACTTGGGATCAGTTATAAACTCTA  
GAGTGGTAAGTGTCTTCACATTTCTTTAAGCACTAAAGAAAACCTTTTAATT  
AGCTACCTTGCTTCCAGTAATCAAACCTAGAGCTCCTCTGCCTTGTGTAAG  
TTGCTATAAAGTATTGACTATTAGAATGTCTTGAACCTTTGGTTACTGTGA  
GCCAAGTCGGTGCTCAAAGTATATTTTCATAGTCTCAATTATATAGTAATT  
TAGGTTCTGAAAAATAGGTTCTGTCTTTGCATATGGAATATTTTGTGAGT  
ATTTACTTTGGAAAGTTTGGTCGACCTTATGATAAATTAAGAGTTATTTT  
TCTTTTACAACCTACTGGCTTGGAAAGGGAATTCAGTCAGCTTTTTGATG  
AACGTTTGTAATACTGACGATATGATTCTTCCAAAGGGGATTTGGTGGC  
ACTTTCAAAAAACATTGAAGAGCAAGGGTAAGTTATAACATTCCTTACCC  
TTCTATAAACAACCTTTTTTGAATCTTTTGAAGAAGATAAACCGTGATCTC  
GTATAGTATAAAGGGGAGTGGGAATGATGTCTATAATGGGGGTCACCTCT  
CTCAACGGTGAAAATGGATGAGGATCAACATGATAGATATCTGTCCCTGA  
TGATGGTGGATACGATAGATGACGATGGTGGATGCTGGCCGGCG  
>Sequence 1089  
ACATATCCCTATCTACTATGTAAAGACAAAAAGGCAAAATGAAATGATGTA  
ATACAATGAACTCCTCAGAAAAAACTCTGTAAAAATCTCAGACTGCCTGT  
TTATCATATGCTAGAGTAAACTTACATTCTTTCTTGTAGAGAAAAATG  
ATGGTAAAAATCCATGCATTAATCAAAACTAAAAACATGAAAAGGCAAGCC  
AACTACAAGAGAAATACAGTTGGCCCTTGAACAACACAGATTGAACTAC  
ATGAGTCCGTGTACC  
>Sequence 1090  
ACCGTGCAGAAGAAGCTACCAAACAGCAAAATATGGAAATAGTCAGTTTTT  
TTTTTTTTAAAGCCTCAGTAGAAGAGTGCAGAGTTACACTGTCCTGTTTG  
GGGTGCCCCCTCCCCCTTCGACCTAAGTGCTGACAAAGGCTTGTACAGCT  
CTCAGTTCTGCCACTGTCATTTATATGCTCCACAATGACATACCAATT  
TCTGTTTTTTCATACCCATCACATAAGTGTGGAGCTATGTATACGATCT  
TAGTGGCTTATAGTTTTTTTTTTTATAAAATTAGAACACTTTTTGTTACAT  
ATTAATAAAT  
>Sequence 1091  
GGTACCTTTGCAGTTTTCTAAGGGCTCTTAGTGCTTTTAACTAGAAAGGG

GTTTTTCGTTTGTGTTTGTGTTTTAAAAAGGGTCCTTAGTGCCTCTTACTC  
CCTTCCTGTAAAAATCCTGTGTAAAAATGACAAAAGTGACAATTGATCATT  
GTAAGTTCTAGT

>Sequence 1092

ACGCGGGATCTAAAGTTGGGGTGGGAAGGAAGGAGAAAAAGGGGATTGATT  
TTAGTGGAAGAACAAGAATGTTCTGAAATTGATTGTGATGGCTGTATAAT  
CCTGTGAATATACTAAAACATTGAGTTGTGCACCTTACATGAGTGAATTG  
TGTGGTATGTGAATTTATATCTCAATAAAGCTATTTTTAAAACGAAAAAA  
AAAAAAAAAAAAAAAAAAAAAAAAAAGTCCC

>Sequence 1093

GGTACCAGGTCACCTGTATCTTGATCACCAGAGAGCACACCAGCCTGGAC  
AGCAGCACCATACGCTACAGCTTCATCTGGGTTTATGCCACGGGATGGTT  
CCTTGCCATTGAAGAACTCTTTAACCAGTTGCTGAATCTTTGGAATTCTGA  
GTCGAGCCACCAACAAGAACAATTTTCATCAACCCGCTACATGCTAAGAC  
TTCACCAGTCAAAGCGAACTACTATACTCAATTGATCCAATAACTTGACC  
AACGGAACAAGTTACCTAGGGATAACAGCGCAATCCTATTCTAGAGTCC  
C

>Sequence 1094

ACATGCCAAAAGACTTCGCCATAACTTTTCAAGTTAATTACACCTGCTACT  
GTTTCACTTAGTGGCACTTTGCTTAACCTGTTATACACAGAAGGGGTTGA  
GAAGACAAAACACTGTAACTTCATTATACCTTTGACAAAGTAATATTAT  
GTGACATGATGTGTTTTCCCAAAATATTAGAGCTGCAGATTTAGCTGAT  
TCAATTTATGGGACAATTTGTTATGTGATCTAACAATTTGGCATATAATC  
TAGAAAGCAGCTTTATGATCAAAAATTGATTTTATATATACATATAAA  
TC

>Sequence 1095

GGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTACTTCAAATAACA  
TTTTTATTATATAAAAAATGTAAAAATCCAGCAAAACCAGAAATACGAATA  
TATTTTTCTGGGCTTTACATTTGTTGATTTTTATTCGCGATCTTTTTCA  
ATACAATTTACACCCTCATCCCCATTTCCAGTCTGATTATACAAGTGCTA  
AGTGGCAGAAAGGCTCGGAATAAATACATCAAAAAGAAGAGGCAAAGCTG  
TGAAACTAAGTTGCATGCAACAGGTTCTATGAGGGTGGGGGAAGTGTCTG  
AGAAG

>Sequence 1096

ACAATCTGATACAAAATCTGAAAGAAAGAACAGTCTTGTAATCTTTACAT  
ACTTGTAAGGATTTCTCAAATTTAGCTTACTTTCAAATAAAGTTCT  
TACTGTCTAATATGCTCTCTTTAAATTTATTAAAGTATTTTTAAAAATACCC  
TGGCTCTTTATCTAGTTTCAATCTAAGTATAGAAAAGCATTCTCTGTAAG  
GCTGTCTTAAAAAAAAGAAAAAAAAAAAAAAAAAAGTACC

>Sequence 1097

ACATCTGCAGACATACTGAGTGTACCGTTGAAGAGAGTGGAGTGGCTTT  
TGTAAGAAGTTTCAGGTACATGTCCAGGGGCCCCAGCCTCTGGGCCCCAGTA  
ACTCAGCTACTCTTTGTGGCTTTCTTCATGGCTTTTTTTGTGGGCTGCCA  
CGCCCATCTTTATCACCAGAATGAGGAACTCCTGGAAGTTAACTGCACCA  
TCAGTGTTGATATCCAATCTTTGAACCAGACGCTCTGCACCCTTTTTCT  
GATATACTGAGGACACTCGGTCTCTAGCAATTTCTTCAGGTCAATCCC

>Sequence 1098

ACTACCATTCATACAAATGGAATATTACCCGATGAAAAAATAAAGTTGAA  
CACATGCTACAACATGGATGAACTTTGCTTATAAGAACATTGAAAAGAAA  
ATGCCAAAAGAAAAATGAGTTTTAGCTCAAATTTTAAAGAGGCCTAGC  
CTGCTCAAGATATCCTGTAAAAAATAAAAAAAAAAAAAAAAAAATCCTTCCCA  
TATCTAAGGTGAAAAATAAAAAACATTTTTAAAAAGTTTAATATAAAGAATG  
AAATAATTTCAAGTCAAGTTTATTATACAGAAATTATATTAATGGGTGGG

>Sequence 1099

ACGCGGGGGAGGTCTCCATTCAGTAGGTGGCCCGGGATGAAGGCCGTGTT  
GGGGCTAAACCACACTCTGGAATTCTGTGACGCAAAATCCTCGCTGTGTGA

Table 2

ACTTGAGCAAGCCATTACCTTTCTTAAGCCATTTTCTTGATATTTTACA  
GAGCCTCACCAAGTATTCAACGAGAACATGTAAGTGAAATGCTTCACAAA  
ATGCCTGGTAAATAATAGATGCTTAGAAAAATGGTAGAGAGAGAAAAGAGC  
AGTCTCTGCCCTTTAATGTACC

>Sequence 1100

ATAATTAAAAATAAATATGATATAAAAAATAAATGTAAAAAAAAAAAAATT  
TTATAAATAAAAAATCCAAAACATTCAACTTCATTACTTCATTTTCATAAA  
TTTTTTTCTTAGTAAATCATTTATTTATAGTAATTAACGAACCCCATNTA  
GAAGNGGCCGAATTTGGGGGCCCTTCTNAAAATAGCCATNGCCTTNCG  
AACC GGCCCGCCAAGTGTGAATGGAATCTGCANAATCGCCCTTCGAGCG  
GCCGCCCGGCAGTACTGCAGCACATTACCGCGACTGAGGGTATAACCGTC  
AAAACCACGGGCCCG

>Sequence 1101

GGTACTTGTGGCTAGGAGCTGAGCTTATCACAACAAACAACAGCATTAC  
AGGAATTGTCTTATATGTGGTCAGTTGTAAAGCTGATAAAAAATTATTCTG  
TAAATCTTGAAAACCTAAAAAATTTACGCAAGAAAAGACATCACTTGTCT  
ACTGTAACATCCAAAGGCTTTGCCAGTATGAGCTCTTTAAGTCCTCTGC  
CTTGGATGATACAATCACAGCATCACAAACTGCGATCGCTTTGGATATTT  
CCTGGAGTCTGTGGATGAGATTCTTCAAATCCCTCCACTCTCTTCAACT  
GCAACTCTGAATATTAAGTGGAATCAGGAGAGCCCAGAGGTCCTTTGAA  
TCATCTCTACAGAGAACTGAAATTTCTTCTGTTTTGGCTGATGGTTGA  
GGACTGGTGTCACTGAATGGCTCGAGCCCCTGGAAGCAAAATCTTGCTGT  
TGAACCTTGTTCAAGGAATTTCTGAATGACTTAAATAAGCTGGATGGATTG  
GTGATTCTACAAAAAAGACACTGAGGTTGAGACCTTGAAGCATGACACT  
GCTTGCAATCCATCGTTCGGTCAAGCGTCTTTTCAAAGTTCGGGGTGATC  
TTGATATTGCTGAACAACTGTGGTGCAAAATGAGCAGTAGTGTGAATTCA  
TACCAAGACTTGGTGAAGTGTTTACATTGATCATTCAAATCTACAACGT  
GGGAATTCAAGCCTGGCTTCATAGGGGAAGTACAATTAAGTAGTAAGCT  
CATTCTTAAGCTATTT

>Sequence 1102

GGTACGCGGGATTCCCCCATGTTTTCTTCTAGAAGTTTTACAGTTTTACG  
ATCTACATTTTGGTCTATGACCCATTTTGGTTAAATTTTGTGTAAGGTA  
TGTTATACATGTGGAAGTTCATTTTTTTGCATGTAAATATCCAATTGTTT  
CAACACCATTGGTTGAAAAGACGGTATGTTCTCCTTTGAATGCTTCTGCG  
CCTCAATTAAATCAGTTTACTCTATCTGCATAAGTCTACTTCTGGGCTG  
TCTACTCTCTTTCATTGATCTGTATGTCTGTCCATTNTCCAATACCACTG  
TCTTTATTACTGTAGTTTCATAGTAAACCTTGAAATCATAATTCTATAGT  
AAGTCTAAAAAATCACACAGGTTGGAAATGCACAATTAGTATGCTAAAT  
CAGAGCAATCTTGTGTTTCAAATGGTTTATGGGAGAAATATTAGCCAAGT  
GGCTTAACATGCTCATTGATGATAACCTGAGCTTATGTGAAAAATATTGTT  
TTTAAGCTTTGCCGCTATTTCAAAACCACTGGCTGGGCTTGGTTTGCCAA  
AATATGACGACCATTAGGAAATGGCATTTCATGAATGTCCTTCATCTGAA  
TATTTGGAATTTGGCCAACCTGCGGTCTAACTTGAATTAAGTGTTTTAA  
TGGAAGAGCAGTAAGCCGGTATTGTGAAAAAACGCATTTTATTGGCTA  
TGTGATTTAAAAATGATCTTAGATTTTCCATTAAATGATATATGGCTAT  
GAAAAATAATTTGATT

>Sequence 1103

GGTACTTTGTAGCGTCTGCGTGTGTATGGAAAGTTGACAAAAAATGGCA  
TGAAAAGATCATGATTGGATTTCTTTTAAACCTGCCCTTCTGTAAAAAA  
TAGTTTATATATTTTAAATTAGTAGGTATGTGTGGCTTCCTTTTTCTT  
AACATTCCCAGCAAAATTTTGTGCTAAGACTATCACTGTTAAAGTGAAA  
ATTACAGGGAAAAATGTGATGAATATACCGTAACTCAAAATGTGATATTT  
TCTTAAATCACTCTTTTATGCTTTAGGAACTGGTTGGTCTCCACTTTGA  
TTATTAGTGTAAGAGCCTGAGTATACGTGGATTTTATTGTAAAAATTTAA  
CTCCTTGTCTTTTACTTGGGGCACGGGGCCCCTGGAGGGCTTCCCTACTT  
TCCCCACTATGTTAACAGGTAATTCTGATTTATGCCTTTAGTTTGACTTA

Table 2

TTTTTACCAAAATATTAGAAGTTATGCTTTAAAATGTTAAATGTGGACTG  
AAATTTTCATCTTTTGTGTTGAGAATCTATGAAGGTTATTATATACGTGGC  
CTAAAGGCAGGTGTGGATTTTGTATTCTGAAATTGGTTTGCATCTGGAC  
AAATACTAAATATCCCGTGGCCCTTTTTTTTTTATTTTTAAACCCGGGTA  
TCCTTCCATCCTTTGGCCATTCTAGTAGGCAAAAAATTTGTAAGCCAC  
TTCATTTTCCAATTACAGACTGAAAAATTTGGCCCCGTTTTTAAGAAGTTT  
TAATTTT

>Sequence 1104

CACTATAGGGGCTCGAGCGGCCGACCGGGCAGGTACTTGCAATGGTTTGA  
CATTAAGAGAGAGACTATACATTCACAGAGGTTGGGAGCTTCTGTCTAGC  
CTGTTGTCCAAAACCTGCTTATAAAATTTAGCAACTAATTATCACTTTTGA  
CAACTATTTTAATCTAGAAAAATAGGTTTATAAAGATTTTCTTAAAGTGT  
TATCTATCCTTCCAATGACTTATTATAAATTTTGAATGTATTTCTATAG  
GGTGGAAAAATCTCCTTTAGTCAGAATTGAACAGTTTTTCATGAAGAACAT  
GTTACACCATGTAGAAACATGGGTACC

>Sequence 1105

GGNACTTTTTTTTTTTTTTTTATTTTTTTTTTTTTATGGCAATATTTATAT  
TTATTTTGTCAATTCCTTGGATAAAAAACCATTTGAACAATGTTTGGTAAG  
GTGTTATTCTCATAAAAACTTCTTTCAAAATGAAGGTTTTTCTATTTTCC  
ACAAAAGTTAAATTACATGCTGAAACAAAGTTAATGACTTAGGTAACAC  
AATACAATGTCAGAAAACTGGTATAGTAAGACCAGCTAATGAACCTACGTT  
TTTTAACTAAACAATTACACAGAACTAGAAAACTTGACTTAGTAGTAAAA  
TATATAAATCTACAATTTTAAATATAAATTTGGTCCATGGAGACACTAGG  
GCAGTATTTACAAATAGTAACAAGATTATTTCTAACTTTAGGGGGAATAA  
CTGCACTTGTA AAAAATGGATGAAATATTATATGGAGAGAGTGTTTTATTT  
TACCGGCTTCTGTTTTTAAAGTTATATTTTTTATGCAAAACCTGATAT  
ATTGGCTACAAATACAGCTTATAAAATTTATACCCTACATAACCAACA  
TTTTTCTGGTGTTTGGGAAATTCCTTAACCTTCTCATATAATGTGAAATT  
TGTTTTGTTTAAATTACATTACAGCGAAAAAAAATACCCTCACATTCCCA  
TATTTTAGACGATACTTGTAATATTATAATCCTGTTTTAATTTACCA  
CATCATTTAGTTATATTACAGTTTTTTGCAAAGAGGGGCACAACATTGG  
TCATGATATTAATACTTGCGGCGCAATCCTATGATTAGAGAGGTTACTT  
GTCAGTGATGTAAATAACT

>Sequence 1106

CCCTTAGCGTGGTCGTTTGTGAGGTACAAACCTGCATGGTGTTTATGCA  
CACAGAGATTTGAGAACCATTGTTCTGAATGCTGCTTCCATTTGACAAAG  
TGCGTGATAATTTTGAAGAGAGCAACAATGGCGTTTCTTTTATGT  
TCAGCTTATAATGAAATCTGTTTGTGACTTATTAGGACTTTGAATTATT  
TCTTTATTAACCTCTGAGTTTTTGGATGTATTATTATTAAGAAAAATG  
CAATCACGATTTTAAACATGTAAAAATCAAATTTTGGATAACTTTAGATGA  
CTTCAGTGAAATTTTACGTTAGTCTGAGTAATAGAATGTTTTGCCACTTA  
GAATAGCATTTGGCACTTAGTAATTTAAAAAATAATTGGCGGAGAATTTA  
ATGGCAGTTTTGGTCACTTGTTATCTAATGACAAATTATAAAGCCTTAAA  
AGGGGTTGGACCACATTTATTTGAACATAGGTTTGCACACATTTAAGAG  
ATACATGTAGCCAAAATGACTTTATACCACCGATGGTTTTTTGGAATTTG  
TAAAAATAATACATTTATATGTGTAAATTGATTTAGAAATACGCCACATG  
TTTTGTTTCGCGCTTCACACGACTCGCTTCAAAACGACGGGTCCTGGCCG  
GGCCGCGCGCTTTAAAGGGGTAAATACTATGCACATGGGGAGACGGTTCT  
TGGAGATCCCGGTCTTTGCGTCATACTCGGTGCACAAGTAGGGCGATACG  
GGATTCATAGGGCAAAATGATACTCGTCTCCACGCTCCCCACCTTACCT  
CCTGT

>Sequence 1107

CCCTTTCGAGCGGTGCTCCGGGCATGTCTGTGAGATGTTACCACTAGTAT  
TTGGAAAAAGAATAAAAAATGTGGCCGGGCGTGGTGACACATGCCTGTAAT  
CTAGCCACTTGGGAGGCCAAGGCAGGAGAATCGCTTGAACCTGGGAGGCG  
GAGGTTGCAGTGAGCCAAGATTGCAGCATTGCACTCCAGCCTGGGCAACA

Table 2

GAGTGAACCTCTGTTTCAGGGTTAAAAAAAAAAAAAAAAAAAAAGTACTTT  
TTTTTTTTTTTTTTTTTTGGTCATTAGTTATTAATTTTACACAGTTAA  
CACTGAAAAATGAATGATATTTAATCATTGTCACTTACTGAGAAGCAAGA  
ACAATGAGTGAGCCCAAAGGAGTCTACTACCATACCTATTAAGTGTAGGG  
AAGGGTTTAAGTATTTTTTACATACTTTTCTTCTGTCAATTGAAAAACAC  
CCCCCATCTGAAATGGACAGAAGAAAAATTTCCAGGTGTTTACTCTC  
ATCAGAACAGCTTGGGGGCAGTGACCTTCACACTGTTAGCTTGCCCCAT  
ACTGCTTGAAGGGCACCAGTTAAGAGCTGGTAAAGGGAGTCTCTTTAAAA  
ATACAATTGTGGGAGATCCCACTTCCAAAAGGTATGGACCAATGCTTTT  
TCCAACAGCAATGAATGGTGGGGCTGAAAACCAAACCTTACAGGCCCTGG  
CTTAGGCCTGGGGAGGGGAGAACAGAGCATGATTATTGGGAGTTTGGA  
AGAAATTTTGCCTAAACCCGGGCGAAATGA

>Sequence 1108

CCCTTTTCGAGCGGTTTCGTTTGGCATGTATAATGAAATGTCTTTAAAAA  
AGTTTGTGTGAATTGTGTATGTAATCTGACAGTAATCAAAACACAAAA  
TCACACATTTTCCCTAACTTCCCATGTTCTGGATCTGGGGACTGCAATAT  
TACAGAAATATGCAAAAATAAGTTTAGTGCTCAGAGATAAATAATTTTT  
TTATTTCAATGCATCAATGCGCAAAAATTTCAATTCAAAAAAGCCAACCA  
CTGCTATATGCAAAATAAATAAACATTTGACAACACTTTTATAATCAAAC  
CCAACATTATACAAAAAATGTGTGGCAGCTGCACATACATGTGCATATGT  
GTATGCAATGCCTATTTTAGAAAAAAGGTGTCTTGATGAAAATGATTTTG  
AAAATAGTCACTGACACACATTATATACAAAACCTTTTATATAAAAAATT  
AAACTATTTTCAATGAAATTCATGTTTCACTCTATTCTGAGAATTGCA  
AACTGAATCATAAATAGGTCTACTAACGAAATCATGGTTAAGGCAGTAT  
TTTTACAAGGGTTTTCTTTTATATCATATGTCACTAAATACTACTGCA  
GTCAAATATACAGATGCAATCTGACATGCCTTATCGTTATTACCTGAAC  
TTTTTCACTGTATAAAGGGAGAAATACATTTTTTACAAAAAATTTTATT  
TATAAAAAACTGGTATCATTTTCCAAAAAAGCATTACTTAAACATTAAA  
GGTTAAACGTCATCTTATGATGTAAAACG

>Sequence 1109

GGTACATTTTGGGCCCTTAATCCCATCTAAACAATTTGCTGTAAACGAAA  
CTCAAAAAACAGAAATACCTATATTTTCTCGCTAAATCCAATTGTTACCTA  
TGATGAGTAAAGACACTAGATCTGCAGGTCCTAGTACAATCTATACATAA  
AAGGCCCTTCAGATTTGAGGCAAAAAAAAAAAGGGCAAAAAAAAAAGAAAAA  
AAGAAAAAAAACCTTCTACACATTTCTTCTTTATCTGCAATATGAGA  
AGGAATCCTTTCTAACTCTAATAACATATTAACAAGAATTAAGAACACGA  
TTGTGCGGGAACTCAGATGTTGGCAAAGCTTANAAATAAAAAACAAGGG  
CTGGGTGCAGTGGCTCAGGCCTATAATCCCAACACTTTGTGAGGCCGAGG  
CAGGAGGATTGCTTAAGCCCAGGAGTTTGGGATCAGACTGGACAACAAAG  
TGAGACCCCTATCCCTATCTCTCCAAAAATTTTTAAAAATAGCTGGGCAC  
AGTGGTGTGTGCCTGTAGCCCCAGCTACTTAGGAGGCTAAATGGGAGGA  
TCCCTTGAGTCCAAGAATTTGAGAATGGCGTGAGCTATGATCAAACCTCA  
ATTACGCCCGGGGTGAACGAAGCCAGGGGTTTTTAAAAAAAAAAAAAAGG  
GAAAAANNAAAAAAGGGGGAGGTTCCCTTGGGCCCCGGGGGCCCCGGG  
GCCCCGGGTTTTTTTCGGAAGAGGGGGGGCCGCGAAAAATTTTTTCC  
TCCCCACAGGCGCCC

>Sequence 1110

GGTACTGGGATTACAGGCGTGAGCCACCGCACCCAGCCAAAACCTGAATGC  
TTTTAAGAGCACCCAAGTCAACTCTTGAGTGCTTTGCTGCTTAGAAATTT  
ATTCCACCAGATACCCTAAATCATCTCTCTCAAGTTCGAAGTTCCACAGA  
TCTCTAGAGCAGGGGCAGAATGCTCCAGTCTCTTTGCTAAAGCATAGCA  
AAAATCACCTTTGCTGCTCCAGTTCCCAATAAGTTCTCATCTCTGTTGG  
AGACCACCTCAACCTGGACTTCATTGTCCATATCAAGATCGGCATTTTGG  
TCAAAGCCATTACAGCAAGTCTCTAGGAAGTTGCAAACCTTTCCACATTTT  
CCTGTCTTCTGTGACCCCTCCAAACTATTTCAACCTCTCCCTGTTACCT  
AGTTCCAAAGTTACTCCACATTNTCAGGTATGTTTACAGCAGCAACCCG

Table 2

CTCTACCGGT

&gt;Sequence 1111

GGTACTTTTTATGTTTTAATTTTTGTAGAGAATGGCTCTTGCTATGTT  
GCCCAGGCTGGTCTTGAACCTCTGGACTCAGGTGAAGTGATCTGGCCACC  
TCAGCCTCCCAAAGTGCTAGAAATACAGGCGTCAGCCACCACTCCCAGCC  
TGTAGCCTATTTTTATAAATGAAGTTTTATTGGAACATAGCCATGCCTGG  
TCATTTACATACGTCTATGGCTTCGTATGCAATATAGCAACAGAATATAT  
TAAACATTTACTACCTGGCCCTTTGCAGAAAATGTTTGACAGCTCCTGCT  
GTATAAACATAAAAATCTGCCAAAAAATGCTGATATTACCCACATGGAGA  
AACACTGAACCCCTCTTCAGAAATCAGATGCCAATTTAAATATTACTATC  
AGAGAAATACACTCTGATTTTTTTTTCTATTCCCTTTCTTTATTTTCT  
TTTTTGAGACAAGGTCTTGCTCCGTTGCCCAAGCTGGAATATGATGGTGC  
CATCATAGCTCACTATAACCTCCGAATCCTGGGCTCAAGTGATCCTCTTG  
CCTCAACCTNCTGAGTAGCTTGGACTATGGGCGTGTGCCCGCCGACCCTGG  
CTAATTTTTGGGATTTTTAAAAAAGGCGGGGGTTTTCCCCACCGTT  
TTGGGTCCAAAACTTGTGGTCTTTGGAAAACTTCTTTTGTGAAACC  
CCTTTCCGGTGGGAAATACCCTTGGGGGGCCCCCAACCCCTTTTTTT

&gt;Sequence 1112

CCGCCGCTCGAAAGCCCTATACTTAGCGTTTTTAACCTATATNTCTGTGC  
TTNNNNNNNCTNNNGGNAAGTGGGGGGAATGAGGAGTGGGGGGGAGTGC  
TACGCGCATGTGTGTTCTCAATCCCTTACGGCCCCGGCAGACCTTGGC  
TTGACTGTGGTCTANAGCACAAGAATATGCTAGGCTGCACTCTGCTAATC  
AGATGTGTGAATGGTCTGTGGNGTGTATTGAATGGGAAGCTTTTGCCCG  
GNGAACCAAAGCTCTCATGGATGATGTGGTGAAAGCCACTTCTAGGGGCT  
GATCACCATCATAGGTGGTGGAGACACTGCCA

&gt;Sequence 1113

GGTACTTTTTCTTTTTTTCTTTTTTTTTTTTTGAGACAGAGTCTCTCTC  
TGTCACCTCAGGCTGGAGTGCAGTGGCATGATCTCAGCTCACTGCAACCTC  
CACCTCCTGGGTTCAAGCAATTCTCCTGCCTCAGCCTCCTGAGTAGCTGG  
GATTACAGGCAGGCACCACCACACCCGGCTAATTTTGTATTTTAGTAGA  
AACGGGGTTTTCTCCATGTTGGTCACTCTGGTTTCGAACTCCAGCGTCAG  
GTCATCTGCCTGCCTCGGCCCTCCCAAAGTGCTGGGATTACAGGCGTGAGC  
CACCGCGCCAGCCCACTTCTGTATTTTTAAAAAAGTGGTAAGATTTGAGT  
ATTATACTGGGATAGAAGTGAAGTTGGGGGCTTAATTTGATCTATCAGCT  
TATTGAAAACAAGGACCTTTTAAGAAATGGTTTTGTTAGGTTGGAAAAGT  
GAGTTTTAATTCGTCAATTAATTAGCCAGGATGTTGATTTTTTTGGTGA  
AATGTACCTGCCCCGGCGCGCGGTGCAAGGG

&gt;Sequence 1114

GGTACCACATTGACCCAAGGACCTCTAGCTGTGTTGGTGAGGCAGGTCT  
TTGTCAATTTAAGTAATCCTGTCAGATGGTGTACCAATCTTGTAACCTAC  
GACAAAGCACTGTTGCTGAGATACTGTGATTTATTTTCTTAATGGGCAG  
TTTTTTTATATATACGTTCCATTTTCAGACAGGTGGTGCTTTGAGTTG  
AATTTGCAAGTTCAGTGAAACATGGATCTCTTTTTTATTTAACTCCCTTT  
TCTTCTCTAAGGTGCTTAATTTCCATGCTTGACATCGT

&gt;Sequence 1115

TGTACAGAAGGGTTTCACCATGTTCAACCACTGGTCTCAAACCTCCTGGT  
CTCAAGTGATCCATCTGCCTCAGCCTCCCAAAGCACTAGGATTACAGACT  
TGAGCCACCGCACCCCTGTCCATCACTTTATTTTTCAAGAAGGTGGTGA  
GGGTGTGTTGGTGCCTGNGGTCTCTAGCTGAAGAAAAGGGAAATTTTTCT  
ATCTCTGGTAATGTCTTTA

&gt;Sequence 1116

TGTACCATCCCATGGACACAAGTTTTCCAGGCAGCAGCCTCCAAGAATTTT  
GTTAGAGATGTCCCATCACTTATGGCCCTACACTGTTTACATCTGGACTC  
TGGATTGCAAGTGAAGGAAGAAAGTGAAAATGAAAGAGAAAGTGGAACA  
AATATTGGCAACAGAGCCCCCAGAGGACAGTTGTCCCTTTTCCAACAAGT  
TAAGTGGAAGAAATGCTGTTGCCATGGGAGT

Table 2

## &gt;Sequence 1117

AAAAAAAAACAAATATTTTTTAAAGCGTGAAAAAAAAAAAAAAGAAGGGGGGG  
GAAATCTAACTTGGGAAAAAAGGGGGCCTTAAAAAAAAAAAAAAAAAAAA  
TTTTAAAAACAAAAAAAAAAAAAGAGCGCCTTTTTAAAAAAAAAAAAAAAA  
GCCCCCGGGGGCGCGCCAAAAAACCCCTTTTTTAAAAAGGGTTAAAAA  
AACACCCCTCCCAAATTTAAAAAGGGGGCCCGGAAAAAAAAAAAAAGGA  
AAAGGGGGTGGCAAAAAAAAAAATCCCCCCCCCAATTAAAAACACAA  
TTGGGGGGAAAAAAAAAAACGGGGTTAAAAAAAAAAAAAGGGGGAAANTTC  
CAAAAGTAAAGAGGGGAAAAAAAAAGGGTGTTTTGGGGGAAAAAAAAAA  
AAGAGGCCCCCCAAAAATTTGTAAAAACAAAAAGGGCAACTTCAAGGGG  
GTGAAAAAAAAAAAAAAAAAATCCCCCCCCCAAAAAAAAAAAAAAAAAAAG  
GGGGGGGAAATTTTTTCTTATTTGGAAGAAAGAAAAAAAAAAGGGGGG  
GGGCCCCCGGGAGTTTTTTTTAAAAAAAAAAAAAAAAAATTGGGGGGGGGGG  
GGGTTTTTTTTTTTTTCCCCCCCCCCCCCCCCCAACAATAAAAAGAGAG

## &gt;Sequence 1118

TGTACTTTTTTTTTTTTTTTTTTTTTTAAAGAAAAAGTTGGCCAG  
CCCCAGGGAATAAATTTGACTGCTCTAAACAACCACAGACCAAGGGCCA  
AATCTGGCCCTCTGACTGTATAAATTAAGTTTTACTGGAATAAAACCAGG  
TCCATTGATTTATCCATTGTCTACATACGCTTTTAGGCTACGATGGCACC  
ACTGTGTCACTACAAAAGAGGTTATCTAGACAAAAAGCCTAAATATTAC  
CGTTTGCCTCTTTATGGAAAAAGTTTGCCATTCCCTAGTCTAAGGTTAG  
ATTCTGAGCTTATCATGTTATCCTACCCCCCCCCCGCT

## &gt;Sequence 1119

ACAAATATGGAAAGGTAAGATCCATACCCAAAGTTAGGTAAGTGTGAGT  
TGTCCCATGTAAATAGTTTAAACACTTGTAGAAGTATTAGAAGAGATCCT  
TAGGGAATGATGCAAGTGCGATTTGAGCTATTCATTTAGAGAAAGTTTA  
GAAACATGCAGTCTANNAGGAAGAGATAGAGGCAATAGGAAAAAATATAC  
TTAAGATTAACAGCTGTTTATCCCCGACTTGCTTAACTTCNGATGTNGTG  
TCAGAAAAGCAACAGTATGGGCTAGAACAAAGTGGGAATGGCGTTTAAAG  
AAGTAGGAAAAGGGCAAGTCTAAAGAAATTTGAACTTNAGATACTAAACT  
TGTGTTGCNAGTGATTAATCATAAGCTTATTCCTCATGAAAAGTATATAT  
TTCTTTCACACTACNCTAAGACAGTATTATACATTTTGCTTTTTTATCTG  
AGGGATTGAAAAAACAAAATTATTATTTTTTGCTTTTAAANTCCTTAGA  
ANTGAACTAGAACTCTATTTAGGGAGTTAGCAAAAAAAAAAAAAAAT  
ACCTTGGTCCGGCACCAACCTTGGGGAGAATTACTTCCCACTTGGCTGGCG  
GGTCTTTTTTGATGCAACCCTGGGTCCCAAACCATTTGGGTGGGAAGCAAA  
GGGGTCCGTTAAACTTGGCTTTCCTTGGGCTGGAAAAAAAAAAAAATTTT  
TCCCGTTTCCCGGCCTTATTTTTTATTTTTTCCCCACCAAAAAAAT  
TTTTTCCTTTTAAAAACCCCCCGGGTGGGAAACAGAGGGGGT

## &gt;Sequence 1120

GGTACACACATCTTTTTGAGATCCTACCTTCAGTTCTTTTGAGTATATAG  
CCAGAAGTGGTATTACTAAATCTTACGATATTTCTATTTTAAATTTATTG  
AGGAACCACTGTAGTTTTTCATAGCAGCTGCACCATTTTACGTTCTCACC  
AAGAGTGCACAAGGGTTCCGAGGTTCCACATCCTCCCCAACACTTGTTA  
TTTTCTGCTTTTTTTAGATTGCAGCCATCATAGTGGGTGTGAGGTGACAT  
TTCATTGTGGTTTTGATTGCAATTCCTAATGAGGAGTGATGCTGAGCA  
TCTTTTCATATGCTTACTGGTCATTTGTATGTTGTCTTTGAAAAAATGTC  
TATTCAAGTCCTTTGACTATTTTAAAAATTGGGTATTAGAGTTATCGTT  
GGTGGTGACTTGTAGGAGTTTCTTTCTATATTCTGGATATTAATCCCCTA  
TTAGATATATGATTTGCAAAATCTTCTCTTATTCCTAAGGTTACTTTTT  
CCTTTTGGTGAATGGGGTCTCTGATGGATAGAAGTTTTTAGGTTTGAAT  
AAGCTAAATTATCTGGTTTTACTTTTGGGGGCTGGGCTTTTGGGGCCATA  
TTCAAGAAATCCTTGCCACAACCACGTAATAAGGTACCTGCCCGGCCGGC  
GCTTCAAAGGCGAATTCAAGACACTTGCGGCCCGTTTTTTTTGAATCCAGC  
TCGGTCCAAACATGGCGATATAATGGGATAACATGGTACAGTGTTAAATC

## &gt;Sequence 1121



Table 2

CCCTTAGCGTGGTCGCTTTCGAGGTACTTTNTTTTTTTTTTTTTTTT  
TATTTAGTAGAGACGGGGTTTCACCGTGGTAGCCAGGATGGTCTTGATCT  
CCTGACCTCGTGATCCACCCACCTTGGCCTCCCAAAGTGCTGGGATTACA  
GGCGTGAGCCACCGTGCCGGGCTGAAAAATAACCCTTTAGATATCTACAG  
CTTTAAACTGTGTGCAGTCATGAAAAGCAGACATTAGAAGTCATTGGCAT  
TTAATAAATTGCAGTAAATTATACAGTAAATACATTACAATCATTATA  
ATAGGCTTTAATGAGAAGAATTTAATAAATAATCATTAAAAAGACAGCAG  
AATTTTATTCTGTTCTCAATATGTTGCTGCTCTTCTTATCAAAATACTATA  
ATAAACTATATGACTATTATATAGATTTTCAGGAGCTAAAAAAGCCTTA  
TATTTTCAAATTAAGAACAATATTAATTTTGCAAAATACAATGAGCATT  
ACTGAAGTATAAAGGTAATATTTGGATTAAAAATATATGGTCATTTAGAT  
ACCGGCCTTAAAGAATAGAAATCTTAATGATTTCTTTCTGGCTACAGTG  
AGCTTAAAAATACCAACCCCAAAATTTAATAAATATGTAGCACTTCAAGAA  
ATTTTTTAACAACCTTCATAATGTGAAATTGAGCCATTTATTTAGAACTTT  
GAATTTGAAATAACTGCTGGCATTCTTTTGAAAGGGACCTTTAGGGAGT  
TCCTTATCCGACACGGAT

>Sequence 1122

CCCTTCGGTTTTCCGGGCAGGTACGCGGGGGCGGCTCGTTCAAGATGGCG  
GAGCTCGACCAGTTGCCTGACGAGAGCTCTTCAGCAAAAGCCCTTGTCAG  
TTTAAAAAGGAAGCTTATCTAACACGTGGAATGAAAAGTACC

>Sequence 1123

ACCTTTTATCCCTCAAAGGACCCTTCTTGGGTTTTGAATGGAAGCCTTTA  
TTCCGGTTAAGATGTTTTCTTCTATTTTGCCACTTCCATCTTTTTTTGTG  
GCCCTCGATCCTATTTTTCCCTGACTCCATGCTTGGTTGGCCCTTATAAA  
ACTTGTGCCCAAAAGATTGTGGATTAGACTTTCCGAGGACTTACCTGTCC  
TAGGGGAGTAGGCAAGCACTTCCACTAGGGAGGGGGTGGGGGAAAGGAAT  
GACACATGACATACATGGCATAACATTAAGCAGTTGATCATATGTCTGA  
CTGGGTTCAGTTTCTTGGGAATGTTGGTCCCCTTGTTCAGGCTTGCATA  
TTTTAACTAAAAATTTTCAGTCTATTGTTTTTAGTAACTTCATTTATAGT  
CCTCCATAACAAGTTAGAAGGATGTATCTGCTACCATTTATTCCTATAAT  
TTTAAAAAGTTGGGGCTTGACATTATACTCATTTAGTGAGAGTAGATGCA  
AAAAAGTGGAGGGGCAGGAGAACTTTTCAGACACCTCAGATAAAGTCCG  
GAGCCCAAGCTTTATCTTAACCATGTATGGTACCTCGGCCGCAACCCCC  
TAAGGG

>Sequence 1124

CCCTTTTCGATCGGCCGCCCGGGCAGGACGCGGGTAGGGCAACTTGGATGT  
ATGCTTAGGGTTCGCAAAAAGTAAACAAAAATACAAGGGAAAAAAATTAT  
TGACAATGAACGTCTTTGGTAGTGATTTGTGATTTTGTCTTTCTTGATT  
AGTAACCAACAGCACAGCCACCAAGAAA

>Sequence 1125

GGTACAGAAAAAGACACATTTAGATAAACTGAAGCAGATTAAAGTGACTT  
TATAAGACAACATCTTTGTTTTTATGTTTAATTTCAAGTATGGTTAAGCA  
CTAATTTAATTCAGTGCTTTCTGCTTATTCTGTTTCTAGTAACTCTTACA  
GAAACAAGTGTAAGTCAGTAGCCAACATACATCCATGTCAGCCTATATATG  
ACTTACTAGGAGGGCTTAGTTTTTTAAAAAGAGATGAAAAATAAAGAGAAG  
GTCTAGTATTTTCTCCCACTTCCAACAGATCATTTTATGTGCCCCCTT  
TGGGTGAGCACATTCCATGTTGTAGACCATTGATCATAGTAGTCAGAGCA  
TGGAGCTCTGGAGTTTCAGAANAATAATTTTATTATTGCTGGTATGACAAA  
AATAATTACCATGAAAAAAAAAAAAAAAAAAGT

>Sequence 1126

ACTTTACTGTTCTTTTAAACCTGGAGAAGCCTCTATGGCTTATTCCCTTA  
GAAGCAACAAATGAAATGATGTATAAAAGCATCAAGTCAAAGATACAGAGA  
ACTGGACACATCCACTAATTGTTATGACAATCAAAGAAGTCATCTCCGTA  
AATACCTAAGGGTTGTCTAAGGCTATAAAGGTCAATTTGAAAGCCAGTTA  
GGGATCCACCGTGTTCATAAAAGTGTCTTACACTCATGTTTGGCTTTCA  
AGAAGTGATATGCCTACTAAAGCTGTTATTTTGAGACTATCCCGGTACC

Table 2

## &gt;Sequence 1127

CCCTTTTCGAGCGGCCGTTTCGGGCAGGTACTTNTTTTTTTTTTTTTTTTTT  
TTTTGGCCTCCAATTCCATTTTAAATTTTGTTTCTTTGTTTGTCTTTCCTC  
AAATATACAGTCCATCACCTTGGCTCAGTGCATGTCACCAAAAAATCTCC  
AGGGATTTTCATAGTCTCGGTGGTGTGGCTGGCCAGGACTATCCATGCAG  
GGAGGCTGCACCTCTGACAGTCGGCTGCAGCTGGGGGTGCCCATCTTTT  
GTGCTCTGTGGTACTCCTACACACATAAAATTCAGGAAATGACTAGATGAG  
CCTGAGTGGCTTTATCATTATTGTGCAAATACAGTTTCTATACCCACAAA  
CCCAAATTAATTTATTATAGGGACTAATGGCTGTCAGGTGGGTGTGGGAG  
GAAAAAATTCACAAGCTTGTGTACCAATTACCTTTACCATGAATTTTATG  
TACCCTTGCGCGCTACCACACTTAGGGCTATTTTCTGTCACTGCGGGT  
CCGTATCTTAGGGAATCCCACTTGGGTCCACATCATGGATGACACCTGG  
TAATTAAGTGGTTCCTCTCATAAAATAAAATTCGGTTGTACATTCAACAC  
AAAATTACGTACCGTACTGCAAAATATTATATTCTTCGGCGTGCCACTCA  
GATGATCTTACACACATCTATTGCTACGCCTTATTGTTTCTTTACAATT  
ATACAACCTTATTCGGATAACTTCTCTAAACTAACCTTACACCCCTGCGTT  
AGGGCGCTTATCTATTCTCCATCATCTCAACCGTTT

## &gt;Sequence 1128

CCCTTTCTTTTTCGCGCCCGGGCAGGTACTATCGATTGGGTGCGGGGTGA  
TCTATTATCATTGAGTAGGGAACCTTACTAGGTTAAATAGAGAGTATATA  
GAATGTATTTGGTTATAGATATGTGAAGGAAAAGGCATAATTATATGGTC  
ATCCATGCTGGGGAATATTTTGTAGGTATGTTTTGTTGAGAGAAATCGAT  
CATATTGGATCAATAGAAATTAGACAAATATCTTGAGCATCAAGAGACCTG  
GAAACATGGGAATGATAAAGAGAGAAAAACTGCAGTTTCGACGTTCTTGA  
GGCCACAAGAGAGATGGAGGAATGAGGGTCGTGTATAGGAAAGAGAAATA  
AGAAATTGTGTGGGAGAGAAAGATGGTTTATTGTGATGGTCAAAATACCG  
AGCATGGGAGAGCCAATGGACAACATTTGAAAAATGAATCAAATTGATAA  
AGTACCTTCGGGCGCACACCCTTAGGGCCAAT

## &gt;Sequence 1129

ACAGTGGCGCAATCTTGGCTAGTGTAAATTCAGTCTTTTGAATAAATGGAA  
AAAAATAAATTGTATGTTATTTTATACAGAAAAAAGGCCTTAATATCAT  
AAGGTTTTTTTATAGCCCTCAAACTGATTTTTAAATGGAGGTAGGCAAC  
TGAGAAAAATAAGCATTTAAATTAGTTTTACCCCAAAGCCCCCAAAT  
TTGCTTACAAAATTAGGGTACC

## &gt;Sequence 1130

ACTTNTTTTTTTTTTTTTTATTTTTCTTTTTTATTATTTTTTTTTTTT  
TTATTTTTTTTTTTTTTTNNNAANNTTTTATTTTTTTTTATNNNTATAAA  
AAATTATATACNAGGGGGGATAAAAAAATAATAAAGGGGGGGTGGAAA  
AAATAAAAAAAGGGGGGCAATATAGCGGATTGGGGAGAGGGAAA  
AAAAAAGAGGGGGTTTGA AAAACAAAAAAGGGGGGCCGAAAAA  
AAAAAGAAGATGGGATTGTAAAAAAGGGGAAAAAGAAAAATATT  
GGTTTAACACAAAAAAGAATAAAAAAACGGTTGGGAGGGTTAGGGGG  
AAAAAAGTGAGGGGGGAAAAAATGGAGAAATGGGGGGGGGGAAAAA  
TAGGGGGAAAAAGGTGGGGAAAAAAGGTGGGGGGGGAAAAAAGCGAAA  
AGATTGTAAGGAGGAAAAAAGTTATTACGGCGAACATATAAACAAA  
AAAAATAGGGGGGGGAAAAAAGAGGAAACCGGGGGGGGGCAAAA  
GAGGGGGGACACTCCCAATATATGGTGGGGGGGAAAAATGGGGGGGAAT  
AAAAAAGAAAAAAGTGGGCACATGTGAGAAAAAACAATA  
CAGGCGGAGGGAAAGAGGAGTTAGATAAAGAGGAGGTATATTAAATGTTT  
AAAAAAGAGGAAAAAGATTGAAAGGGGGAGGGGAGTATG  
AGTAAAAAGAGGAGGGGAGAAAGGAGATATAAAAAAGGGTGAGAACCG  
AAAAAAGAGGGGAAAAAAGAGGGAGAAAGAGGGGAATAAAT

## &gt;Sequence 1131

ACCCAGAGGGAGAGGCTAGCAGTATTTTTAAATTGGTTTCTAAATTTTTT  
ATAGCTTGATGGTAGATAACACATTTGCTTCATTGAAGTAATCTGAAAA  
CCAATCCTCAAAAGACCTCTCAATTAGAATTCCTAAATGACAATGTTTTT

Table 2

TTTATCATATATTTGAGAGATTGATTTAAAGAAAAATAATGCTTGACTAT  
CTGAAATAATATTTTAAACCCTATCATAAAATCTCTGCCTGGTAGAACAGC  
TGACTGTGGAAGGGTAAATGCAGAGAACCAGTCATTGGATCTCCCTTCT  
CTACTTTGTTACTGAAATCTTGAACCTGTAGAACATTACTTATCACTGTG  
TTCCTTTCTAATGGGAAAAATAATAAAACACTTGCAGAGTATTNTTTAA  
AAGTTTTAGCTTTAAAAAACCCTGTGCCTTACACAATGTGTATA  
TTGAGTTGATACTGATTATGATAATTAGATGGTATTATACAATCATTCAT  
TCAGCAAACATTCACTTACTGAGCACCTACTAATGTCCAAGTACCTTCGG  
NCGCGACACGCTTAGGG  
>Sequence 1132  
ACATCACATGGTGAAAGCAGGAGCAAGAGGGATAGAGGTGCCATACACTT  
TTAAACAATCCGATCTCACAAGAGCTCACTCACTATTGCAAAGATAACTC  
CAAGCCGTGAGTGATTGGCTCCCATGACCTGAACACCTCCCACCAGGTCC  
TACCTTCAGCATTGGGGGTGACAAAGCAACATGAGATTTGGGCAGGGATA  
AATATCCAAATTATATCATTTCTGCTCCTGGCCTCTCCCAAATCTCATGTC  
TTCTCACATTGCAAAATATAATTATGCCTTCCTAACAGTCCCCAAAAGTC  
TTAACTCATTCCGACTNTAACTCANAAATTCAAAGTTGGCCAGATGCAGT  
GGCTCACACCTATAATCCCAGCATTTTGGGAAGGCCAAGGTGGGTGGATTT  
CTTGAGCCCAGGAGTTTGAGACCAGCCTGGGTAATGTGGCAAAACTGCAT  
CTCCACANNNNNAAAAANNNAAAAAAAAAAAGTACCTTGGGCGCGAACACG  
CTAAGGG  
>Sequence 1133  
GGTACTGAAACTACAGGTGTGAGCCACCATGCCTGGCTTAAACATTTGTT  
TTTAATTAGCCAGGCTTGGTGGCCACATCTGTAGTCCCACCTACTCAGGA  
AGCTGAGGTGAGAGGATCACTTGAGCCAGAAAGTTCAAAGGGGCAGTGAT  
CACTCCATTGCCTCCAGCCTGNGTAACAGAGTGAGACCCTGTCTCGCCA  
AAAAGAAAGAGGTTAAGGAGGAGAAGACTCTAGACCAAAGAAGTAACTG  
ATATTATTGAAAAATTTTGATAGCAATCGCAATTATTTGGATAACTATTT  
TCACATATGTAAGCAAACCAATAGGGTCTCAAAGTTTCAGACCAAATG  
ATTCATGTTCTCTACTTCAACCTTAAAAAAGTTAAAGAAATCTACAAT  
TACAAAAAGAACAGTTATTCTATAGTTACAAAAAGACTTGAAAACTTCA  
CCTGAATGCATCTCTTTGTTACAAAACCATTAAGGAGGTAGGGGGGAAC  
TTCATGATTCATCAATGCTGCCTGCTTTTTTAACCCAGGAAATCCTTTAC  
ACCCCTTCTTGCTCTGGCCAGCAAGAACCTGAGGTGTACCTGCCCGGCCG  
CCCGTCA  
>Sequence 1134  
ACTTTNTTTTTTTTTTTTTTTGTTTAGGAGCCTCTGGTTACGTTTTCTTG  
TATATTTACTTTCTCATCCTTTCTTTTTCTTACGCTTCCATCTTTGACA  
TCCTTATCTATTCTAGTGCCAACCCCTCTCTTTAAAAAGTCNAGTAGTGT  
NNAATATAGTTGGCTCNTTTTTATTTANNAAAAAATTTTAAAGATTGGGAT  
ATTTGCTTTACTTTATCATGTTACCGAGGGGCTTTATTTATANTNNGTGT  
ATTACANNAATATATTTGTTAACCTACCTAGCAAATATTTNTATGGGTA  
ATAACTTTGCGCTATTTNTAATATAAAATCCCTGGGTTTTTTAAATTTCT  
TGAAAAATGGCTCCATTTTAAAGTAATAAGGGAGACAGGGGTGAAAATTGG  
TNTCCAAGTTTTACCTACCTACAACCAAGGAAATAAGGGAAGCTCTAGA  
TTCCTTGGTCTTTTTTTTCCAAAAAGAAAAATTTTTAAAAACCAAGGC  
TTATTTGGAGGTATAGGTTTGATTATAAGCCTATATTTTGGACATGGTCC  
CTTGGGCCCCGGGACCACCGCTTAGGGGCGAAATTCACACACACTTGGCC  
GGCGCGTTACTTAGTGGATTCCCGAGCCTCGGTACCCAAGCCTGGGCGTA  
AATAATGGGCAATAAGCTGGTTTCTGGGGAGAAAAATGGTTATCCCGCTC  
CCAATTCACCAACAACATACCAACCCGGAAGCCTTAAGATGTAAAGCCTC  
GGGGTGCCTCAAGGACGAGCCTAACCTCCCATTAAATTGTGTTGCGCTTAC  
TTGCGCCGTTTCCCAATTGAAAAACCTTTCTGGCCAACCTTGATATATGGA  
AATGCCACGCGCGGGGAAGAGCGGTTGTGCTTTGGGCGCTTTTCCCCT  
CCTCCCTTCACTGACTCCCTTTCCCTGGCGTTTGGTGGTGGGAGGGGTAA  
AT

Table 2

## &gt;Sequence 1135

GGTACAGAGGAAATGGGACTTTGCAATTATATTTTTCTAAGTGGTCTGAA  
CTTGGTCTCACTACCCACATCANCCTGGAATGGGTTACCAGGCCTCAAAG  
GACTGCCCCACGGGCTAAACAGCTGATCCGCTCTCTGAAGCCAGACAGTC  
TTATCTGGGAGGTCCTTTACAGATGCCACTGTTGAAGGCCCGGAAGCTGA  
AGAGAGTGAGCTCCATCCTCAAGTAGTCCTTTATGCTCCTTTGGAACAAG  
CTTTGCTGTTTTGGGCCGGCATTGTGAATTGGGCCTGGAGTGTAAGGTC  
TTTANAAAGAAGGGATGGGTCCTTTAGGTAATGAAATAGGTGTTGATGGT  
GTTATGGGTGATGATGGAAGTGAAGTGCGGGTGATAAAGTCTTCATCCTT  
CCCAACTGGGTGGTATCTAAAATCGGCTTGGGCTTCACATTTATAAGGGA  
GAAGGGTCGGGCCAGGTACCTAAAGGGAAAGGAGGGACCTTCTTCCTTAA  
GGGGGAGGTCCCTGGCCACTGGCAAAACGGGAGGGGGGACAACACCTGGT  
GAAATTACCACCCCCCGACGCCAAGTTGTACCGCGGGTCCTCCTCGGGT  
ACTCTGGCCGGGTGGTCGTTTTTAATAGGGCTAAATTCTTATCACATTG  
CTATGCCGGTCACTATAATGGAATCCGATAATTCGTTACGGAGACCTTGG  
CTCAACCATAGGACTAAGATTGTATTCCTGGTGTGCAAACAGTGATTTCG  
CTCTCAAATTCACAAAACATTTTCGAGGCACGGAGCTTAATGAATAGGCN

## &gt;Sequence 1136

ACAGATGAAGATGTGTTAAATATCTCAGCAGAGGAGTGATTAGATAAAT  
GGAATTATGATATATATGATATACAAACTTTTTCTATTTAAAAATATATT  
AATGGATCAACTTTAAATTTGTTAGTTGCCAGTGATCTTTTTTGGAAAAC  
AAAAATGGGGCATTGTGTTGATTTATTTATTTTCCGTCTCTAATTAGTTAC  
CTCAGTTTGATTGAAGCCAGTGAAGTTGTGCTTTTCCTCTACTTCTACTT  
CCTCTCCCCGACCTTTTTTCTGCCAGTGTAGGTGTATTC

## &gt;Sequence 1137

ACAACCTTGGCTCACCGCAACCTCCGCCTCCCGGGTTGAAGCGATTCTCC  
TGTCTCAGCCTCCCCAGTAGCTGGGATTACAGGTGTGCACCACCACGTCC  
TGCTAATTTTTGTGTTTTTAGTAGAGATGGAGTTCACCATGTTGGCAAGA  
CTGGTCTTGAACCTCTGACCTCAAGTGATCCATCCGCCTTGGCCTCTCAA  
AGTGCTGGGATTACAGGCATGAGCCACCGCACCTGGCCCTGTCAAGGTTT  
TCTTAACATTAGCAACTGCATTTTGATTCTGACAACCTGTCAACAATTTT  
GGGCCAGGTAACTTTTGGTGGCTTGTGCCCTGTAAGATTTTAGCAGCATC  
CCCGGCTTCTACCCCTAGATGTCAATAACATCCCTCAGTTTTGACCATC  
AGAAATCTCTCTAGATATTGTCAAATGTCTCCTGAGGAGCAAAGTTGTCC  
TCCGTCCGGGAACCGCTGATCTAGAGTAAAGAGCTGGAAATGGAATCACCA  
GGTCATAGGGCCTGTGCGTTTTTCAGTTTTTCCAGCTCTGCCCAAATGTTT  
TTCACATTTATCCTCATTTACACTTTTCATCAGCATAATTTCAAGTCTAGT  
GATTCATGTGTTAAGCTGAGCTTCATTGCCTTCAATAAGTGATAATGCCT  
GAGCCAAGGACAATATGACTGGATTTTCACACCAAGGTGCGGGTTAAATC  
ACCCTATTTTTTGGACTTCGGAATCAAGGGATTGGGTAAATTAAGGGAGG  
TTGCCCTTACAT

## &gt;Sequence 1138

GGTACAAAACAGAAACAAGTCTCAGTTTTTCAGTGCAACATTTCAAAAAATA  
TATATGCTGCAATCTAATAATTAAAAGGAATTTTACCTATTATGAAACAT  
ATTACATTTTTTAAGTTAGATAATCAGTTTCAAAAGGAGTATTCAGGTTA  
TTTAACTTTGTTTTTAAATGGCTGCATCAGAAAAAAATGTCTATTTTTTT  
TTATTAATAATTTTCATCACTTGTATAAACATATTTTTGATCTGAGTTTG  
GTAAAGTATTATTTTACCTGCTGTTGCCCTGCCCGGGCGGCCGCTCAAGG  
G

## &gt;Sequence 1139

GGTACTATCTCGAATGAAGTTAAAAACAAATTAGAGGGAAAAGGTCAGGT  
TAGCATGTTTTAGAACTATTGGTAACTATAATTCATGGGACATTATATAA  
TCAAAAGATTAATATTTTAAGCACTAAGTTATAAAGGGTTTACACCCATG  
AATAAAAAGATTACCATCACTTACTATGAACCACCATTCATGAATCCAT  
GTAGCTGAACACTCCTAATGAAAAGTTTAATTATCCTTCAACCTGTAGTT  
GAAGAACTCAGTTCATGTTTCATTGACAGATTTCCATTACAGACCCACTAT

Table 2

ATTGATGTTACTTTCTTTGACACTATATTTTATATAGATATATTTAAATTT  
GAAAACCTTAATGCTGTTTAGAAGGCTATTAATATAACTATTAATTTCTGA  
AAGCTTTGAGTTTCTGAAAAGGCTTTTAAGATCAAAATTTCTGAAACACT  
CCACACATTTCTCCTCACCCACATTTAATTATAAATCAATGTTATACTGA  
TAAAAGGTTCTATACACACATTTAGAGATATATGTGTGCGTGGGTGTGTC  
TGTGTGTGAATATATATATAAATTTATCCCCCAAGAAGGAGTCTCAC  
TTCCCGCTCCTTGCCCGGGCGGCCGTTAAAGGGC

>Sequence 1140

GGTACCAGATTATGGACTCTGCTTCTGGTGTGGGTAGTAGGTGGAGGGTA  
GCCAGGAGGGCTTGGGGTGGGTCACTCACCTCACATTTGAGATGGGGTTTT  
ATTTTGCAGATTTTAAAGTAGCCAAGTCCGGTTGTTAGCAGATAATTACTCTA  
AGGGGGTTTTCTCCTGTTCTGTTTCCGGTGTCCGCCCCGACTATCCCATCC  
ACCCACCTCGGGTCAAACCTGATGACAACGGGCAATAACACAGTGAGGTTT  
AACCCCAACTTCTACCGCAATGGGAAAGTCTGCTTGAGTATTCTAGGGTA  
AGAGGAGACTTTTAAAGTAGCCAAGTCCGGTTGTTAGCAGATAATTACTCTA  
GGTCAGCCTTTATCAACCGGAGTCCCTCATCTGAACTACAGAACACAGAA  
AATGATTGAGTGACTCTTCTCAAATCTCCTCAGGATGGTATGTGACTAGT  
ATCATTTCTAGATGCAGAGGGGAAAAGTTAATTTATTACAGTGGTAACTCT  
TTGAGAAGTGGTTCTTTTAAAGAAATGTGGCCCTGAACATCTGGGAACCTTG  
TTACCGAGCAGTTTCTGGGGCCCTTATTTAGACCTACAAAGGAAACTTTT  
GGGTTGGGGCCCAAAATCTGGTATTTTGGGTGTTGATTCTTGTGTTGATAT  
GAGACGGATCTTGCTCTGTCCAGCTTGAGTGAGTGGCACTAACTTGGTT  
ACTGAAACCTTTGCTTCAGATTTAGCTATTTTCTGTTCAGTTTCCACTTC  
TTAGAAACTTGGCT

>Sequence 1141

ACTTTTTATTTTTTTTTTTGACGGAGTGTGGCTCTCTTGCCCAGGATGGAG  
TGAAGTGGCAGCATCTCGGCTACTGAACCTCCACCTCCTAGGTTCAAGCA  
ATTCTCCTGCCTAAGACTACTGAGTAGTGGGGATTACAGGTGCCTCCAC  
CATGTCTGGCTAATTTTTGTGTTTATAGTAGAGACGGGGATCCACCATGT  
TGGCCAGGCTGGTCTTGAACCTCTGACCTAATATGATCCACCTGCCCTGA  
CCTACTACAGTGCTGGGATTACAGGCATAGCCACCGAGCCTGACACGGGC  
ATTTTTAGCATGGAACCGTGAGGAATGAATGGCTGTTGGTGTGCAACA  
AATCATACTGGCTACATGTTGTGAAACCTGAAGTTTTGTTAGATTGTAT  
GAGAAATGATCTCTGGACGCAACACACCCTAAGGGCGAATTTTCAGACACA  
CTGGCGGGCCGTTAACTATGGGATCCGATCTTAGTTACAAAACCTAGGCTG  
AACACATGGTGCAAGGCATGTTACATGAGTGAAATTTGGTAACCCGCTCAA  
CATTTCTAAACAACATACGAACCGGGAGGCTTATTTTGCTAGAGAGGGGG  
GTGGCACACCACCCGCGCCACCCCCCACTTACCCCCCCCCCCCCCCCCC  
CTTTTTTGTGTTTGGACACCCCCCTGTACCCAGCTTTTTTGACTTGTTCAA  
CGCGCCGGATGAGGCGTATGCAATTTGAGGCTTTATCGTTTTTTATTACA  
GCACTCCACCCGCGCTGTTAGGTGCGGT

>Sequence 1142

ACTATTATCAACTGTGATGATGATGATTGTGAATCTTATTTTCATATCTT  
GGTTTTCTTACAGTGAAATA

>Sequence 1143

ACCTACACACATATATGCATATATGGTATAATGTATCAATATTTACAGAG  
ACCATAGTAAACACAGCACAAAACCGGCATTAAGAAGATGCTATGGGAA  
ATAGCTATTTAAAGTGGTACAATATCGGTAAAAGATTGGTTTATATGGTT  
TTTGGGGTTTTCTTTTTTTCAATGATCTATATTTTAAATGTTANNCTTT  
AAAATAGATTACGTGGAATGTCGATTCAACTTTAGTCAGAAAAAACATA  
AGACTGATATGAAAAATAGAAGGGTGCTCTCGGCTCGCGACACACGCTTAA  
GGGGCAGAAATCCAGCTACACTTGGCGGGCGCGATACATAGTTGGAATC  
ACGAAGCTACGGGTACACAGAGCTTGGCGACGATAATCAATGGGACAATA  
GACTGGTTGACCTTGTGGTGAATAATGGTTAATCTCGCTTCACGAATTGC  
CACAACANACAATACTGACGCTCGTGAAAGGCATAAAAGATGATAAAAGC  
TCTGGGGTTCGCGCTTAAAGTGAAGATGAGCTGTAACCTCAACAATTAANT

Table 2

GTGGGGTATGCTGCCTACACTGTGCGCCNGTCTTTTCACAGATGCNGAGG  
AAGAACCTGTGGCTGGTGCCCAAGACTGGACATATAAAATGAAAATCTCG  
GCTCACACATCCTCGCGGAGGAAGAAGGGCGTGTATTTAGGCGATAATAT  
GGNGACNGCTACNTATCGCGTCTTATCATTANGTCCAAGTGAAGTACGC  
TTGTGACATCGAGGACGATTTCCGCCTTGGCGGCTGAAGCCGGNTAATCA  
TTCTTAACGATCAAGACGCCGGGTAAATACTGGGTATTCTCCACAGAG  
ATCATGGTGTGATATACCGCTAGATGAAAAAAACCATTGTTGAACACAGA  
GAGTGCCTGCCAACAATGGCTCATGAACCCGATGAAAANGGGGCGCGTGT  
TTCGTTGATGTTNTATTACAATGACGGTTCAGTACTCCGCTGGAG

>Sequence 1144

ACTATAAGTAGTTGGTTTGTATGATATGGTTAAAAAGGCCAAAGATAAAA  
GGTTTCTTTTTTCTTTTTTGTCTATGACAGTTGACTGTTTAATTTTT  
TCTTGGCACTGATTTGATGATTGTGTGAAAACAATTGTTGTCCAACAAC  
TAAACAGGAATTTTATTTTGTGAGTTGTTCTAAGCTAAAGATAAAAATC  
CAAAAATAATGGTCCCTCGGCCGTGACCACTCTAAGGG

>Sequence 1145

GGTACTTGTGTTTGCTTAAACAAAGTGACTGTTTGGCTTATAAACACATT  
GAATGCGCTTTATTGCCCATGGGATATGTGGTGTATATCCTTCCAAAAA  
TTAAACGAAAATAAAGTAAAAAAGT

>Sequence 1146

GGTACCAAGGTGAAATTTGAATGTGTGAACGCATTGTTCTGTGGAGTTCT  
TTTCAAAGAGATTTCAAAGCCACAAGTTAGATAAGCCCAAGAAGTAAGGC  
CAGAGTGAGATCGAAGTAGGCCCTTTCTTTAAAAAATAATAGCTTTTATT  
TTATGTCAGTATCTTCTTACAAATCTAACCTTCCCTTTTCACGCTTTT  
GAAAAGATAGCTAAAATTCAGTGTGTTCTCTTATTATAAAGGATTGGGC  
TAATAGTTAAGCATTTCAAACATTTTCAGTTTCGTTAATCAGAAGCTGCA  
GTGGGTTTGTGTTTATAGCCAGTTTGCTTTTAAATTTGGCCATGTGGGCTA  
TAAGTTCAACGTATTTGTGTTCTTTATTGTTACTCTCTCCAGAATATT  
ACCCAAACTGTGAAGTTGTGTTTATGGGGATGGCAAACATTCTATT  
CGGAGGAGTTTTCAGTCTCTGCGGTTGC

>Sequence 1147

ACATCTGTCAAAAATCATATGTATGTGAGATGTGTCAATACTAGACTTGT  
GTCATTTATGCTACTTAGAAAGAAGATAAAGAAATATTCCTGGTTTGGAC  
TCCAAAAAAGAAAACGTCAGCTCCCTCCTGCAACGAGTAGGAGCATGC  
AAACCCCTTTATAATTGATAATCACAACCCCTCAGACCCAAAGTAAAATA  
AAAAAAGATATGTAACATTAGGCATTGATGGAAAAGGACTAGATCCTA  
GTATAAGCATCCTAATAAAGGAGAGGTTCAAAGACGCTCTCCAGAACCA  
GTAATTCAGACTTTATATGATAAACTAAATGTGCCAGTACC

>Sequence 1148

CCCTTAGCGGCCCGGGCAGGTACTATTGAACCAACAGGATATCTTTT  
TTATTATTTGCATGAGTTAATCCTACAAACAAAATTAATACCTCTTTTA  
TAAACATCTTTCCAGTGTTCTAATTGATGGAGATGCGGATCACTCATC  
TATAAAAAATGACTTACAGCTTCAGCTTAATCAGTTGCTATAATGTGAAA  
ACAGGAATGTGATTTTTTTCACTAGGTAAAAGGTGCATATAATTTGAA  
TTGTTAAATGTTTTATTAATGAACAAAGTAAACCTTTTAGTAATTTTTAA  
ATTACTGGTCTTAGGTGTTTGAACAAGGTAAAAGTATACATTCCAGTTT  
TGCCCAAAAGTCACTTAAAATATCTACAAATTATTTAATCTGTGTGTGGT  
AACACCATTATTGCTCCAATTTCTGGAAAGAGTCTATTTTCAAAGTTTAA  
AAAAGAGGAAAAACAGCAAAGTGGCTAACTTTGCAGTGGAAAGAAAAAGT  
GTCTTTCATGGGTTACACTTTTCATATTTTATGCAGCATTAAAGTTATCTA  
CGTTATGGGGAACCTGGGTTTTATTCCTACTCATGCATGATGTGGTTTCAG  
AACTTACTTGTGACATTTTCAGAGAACTTCTTACATTACCTGTTAACATA  
CTGAGGTGCAACTTGGACATATTACAAATTTACTCATTATTTGCCATGGGG  
GCTAAGTTACTATACTGGTCTTGAATAAAAGTCCCATTGAAATACTAA  
GTTAGACTCATAGGAAGGGGGGAAGGCCTTAATATAT

>Sequence 1149

Table 2

GGTACCATATTGTTCTTGTTACAGTTGTTACTGTCTCAGATATAATTTTG  
CAATGGCGGTTTCGCAACTAGCACTGTCCTGACCCTATGTATCATAACTA  
ATCTAGGTAAACAATTAAAAATAGGTAAATGTAATGTGATAAATACTTGGG  
GACAACTGGTCATAATTTAGAATCTCAAGCTATATTAAATAATAGATAT  
TTCATTATTTGGGTATTTTCCAATAAAAAATGTATTGGAGGAAAAACCTTTC  
CCAAAAAAAAGTGTAACCTTTTTAAAAAAGGTGGAATAATTTTTGTCTAAT  
TCAAAGCTTATTTAAAGGTTATGTGTAAAAACAAGGGTAAAGAACCCTTTAA  
ATAAGAAAGATGTAAATAAAGTTACCAAAAAATAAAGTGAGGGTTTTTGGG  
TTTTTTTTTGGTAAGAAGGCTTAAAGAAAAATATTTTATATGAGAAAGAA  
TCTTGATATATAAATTTAGACCTAGAAATTAATGGCTGTTAAGTAAGAGG  
GATGTTTCAGGACAAACCCCGAAAAATCCAACATTGTAATGAATGGTCTGTG  
TTAGTCCAATCAACGGATTTTTGAAAACATGAAACATACATTATTAAAG  
TTCCTGGCCGGGCGGCCCTTAAAGGGGGAATTCACACACTGGGGGCGTA  
TTTGTTGAACGGGCTGTACAACTTGGCGGAATTAGGGCAAACAGTTTC  
GTGTGAAGAGTTATCGGTAAAAATATCCACAGATGGACCCGCCCTATGC  
GCCCC

>Sequence 1150

ACTTTTTTTTTTTATTTTTGATTTTGTTTTAAACAAAAATAATAGAGGAGA  
AGCTGGGCACAGTGGCTCATGCCTGAATCCCAGCACTTTGGGAGGCCAAC  
TCAGGAGGATTGCTTTAGGCGAGGAGTTGAAGACCAGCCTGGGCAACAAA  
AAACAAAAAAATTACCCGGGCATGGTGATGTGTGCCTGTAGTCCCAGCTA  
CTTGACAGGCTGAGATGGGAGGATCCCTTGAGCCCTGGAGTTCAAGGTTG  
CAGTGAGCCATGATCTCCCCATTGCACTCCAGCCTGGATGCCAGAGCAAG  
ACACAGTATCAAAGAAAAAGAAAAAACACAAAAGAGGTGGAAGGGCTCAA  
CAAGTGCTTTCCACATTTCGATTCCCTTAAAAATCGGGAATGCTCTAAAGC  
TAGAGGACTTTTAAAAAACAGAAAAATACTACTTAAGTATTTTTCTGTGC  
CCATGTGAAGTCTGGCAAAAGACAGAACTTTAAATAATTAAAGAGGGCTA  
ATCACGAAAGACCCCTAAGTTTGCAGGAAAAGATGAAAGGGGTCTTTCTA  
CCAATCCTTAAAACCTTGAGGACTGACTTTACAGAACACAATGGAAACAA  
CTAAGGGCTTACAACCTCCTCTGAAAAAGTTTGAAATAATATTCAATTAAA  
AATTTTTTTTTTTAATGAAGCAAAAAATTTAAATCGGGTTTTTAAATGAATA  
ACCCCAACACCCCTGGTATTG

>Sequence 1151

GGGACTTTTTTTTTTTTTTTTTTGGGTTTTTTTTTTTTTTTTTTGA  
GACGGAATCTTGCTCTGTCAACCAGGCTGGAGTGCAATGGTGCGGTCTCA  
GCTGACTGCAACCTCCGCTCCTGGGTTTCGAGATTCTCCTGCCTCAGCCT  
CCCAAGTAGCTGGGACTACAGGCACCCACCACACCTGGCTAATTTTT  
TTGTATTTTTAGTAAAGACGGGGTTTCACTATGTTGGCCAGGCTGGTCTC  
GAACTCCTGACCTCGTGATCCACCCACCTTGGCCTCCCAATCTTATTGC  
TTTACAAGTCCTGCTTCAGGGTTACCTTCCCTGACCACTGCTGCCTCCCT  
CCCAGCATTTGCCAAGGACTGTCATTGCCTTTAGTTATTTTTCTGTTTT  
GGTTTTTTTTTGGCGTTTTTTGTTTTTTTTTGAGACAGCGTCTTAATCTTT  
CGCCAAGGCCTGAGTGCAATTGGCACAATCAAAGCTTGTTGCAGCCTTTG  
AACTTCTGGGCTTAAGCCAATTCTCTTACCCTCACAATAATGGATACCGG  
CTCATTCACCAACGCTTGGGCTTTTAATTAATTTTTGTGTAACCAAATTA  
ACCTCAGGCTCTTGAATACTTGGTTTAAAAATCCCCGAGGGACTTTTTAT  
TCCTTTTATACCAATGGAACACTTAAGTCATCTTTCGATGGTAAAGGGAA  
AAAAAAAAAATT

>Sequence 1152

ACAAGCAAGACTTTCCTTTAATATTGATAAAGAATTGAGTATCATGTATG  
CATTCCTTTTATGATATACAATTAATTGTAAGTTATTTCCCTTGTATG  
CAACCATCCACATTTTCTTCTGACCTTTTCCTCAAGTCTTACAACACT  
TTAATGACTGCATTTTGGAGGTGGTCCCAGGAGAACAGATGTTGCCTTA  
TAATGGTGTTTTCCATTTTATCTTTGATTGGGCAAGGGGTTGGAAGT  
ATTATTTAGTATTATGGAATTCCTCTAAAAATTTGTTCAATAGAATATA  
TATTCATTTATTCACCTACTTATTGTTTTATTATTGCCTAGAGTATACCC

Table 2

AACACTGAGGATACAATAATGATCAAGACAGGTCTAATTTCTGTCCCATA  
GAGCCTTAATTTGAATTAGAAAAGAAATTTTTTATTAAGCCGTGGAAAAAA  
AGAATCATAATATAAGTTCCCTTTGCCCTGACCACGCTAAGG  
>Sequence 1153  
GGTACTACATAGAAAGGGCTTGGAAGTCTGATTCAAGGAAAGGAAATCAGG  
AAAGAACAAGGAAATGAAGGAAGAATAAAAAGAAGAGAAGTCATTGAAA  
AAGTATGAAAAAATATGAAACAGATAACAAGAAAGTAGAGGAGATTCCAA  
AAAATACAACCCAGGTTTTCTGCCCTCATTCTATAGAG  
>Sequence 1154  
GGTACTGCAACTATCACTTGTCTATTTGTCTAGGAAGGTAAAATACAGGAA  
GTTCCCAACTTAAAAATGGGCTTGACGTAGCAGTTCATTTGTAAGTCACT  
TGCTTGGAATTTAGAATGCTTCTTCCCTCTGCAGAGACAGCTTCCATATG  
GTGATTAGTATCCAGTCAGCCACAGAAGTTATTCAGTCTGTTGCTATAG  
ATGAAATTATCCTTATTTTTACTTCCCTTCGAATAGACCACCTACTGTT  
TCTTCTGAGTGTGGTCTTTTTCTTTCTCCTATTCCCTCCTCAATCCTCT  
TTTTTTTTTTTTTTTTTCTGGTTTTCTTCATTATTCTCTAATTTCTTC  
TTGTCTCATAATACTTCAGTTCTATTGTGGTAGCTAGATTTAGGGACTAG  
TTTGAATGCTACTTTGCTGATGGAAAACACATTTTGCAGCCCTTAACAA  
GAAGCAAAGGGTAGATAGGGTTTAGCTAATACTTAGTAAGGGGCTTACTA  
TGTGCCATGGTCCCTGCCCGGGCGGCCGCTTATTGGCCAATTTCAACAAC  
ACTGGCGGGCGGTTACTAATGGAATTCGAAGCTTGTTAACCAACCTTGGC  
GATAAAAATGGCAAAAACCTGTATCCTTGGTGGAAATTTTTATCCGTTAC  
AATTTCAAAACACATTACAACCCGAAACAATAAATGATAAGCCCCGGGT  
CCCTATGAGGGGGCCAACTACCATTAAT  
>Sequence 1155  
GGTACCTGCAGGAACAATATTCCTGTAGCCATGGAAGAGGGCCAAGGCTC  
AGTCACTCCTTGGATGGCCTCCTAAATCTCCCCGTGCAACAGGTCCAGGA  
GAGGCCCATGGAGCAGTCTCTCCATGGAGTAAGAAGGAAGGGAGCATGT  
ACTTGCGCTTACTTTGTAGCCTTCATCAGGGTTTGCTGAAGATGGCGGTA  
TATAGGCTGAGCAAGAGGTGGTGAGGTTGATCGGNGTTTATCGATTACAG  
AACAGGCTCCTCTAGAGGGATATGAAGCCCCGCGT  
>Sequence 1156  
ACGCGGGCATTTTTGTATTGCTATTAAGAAATACCTGAGACTGAGTAATT  
TACAAAGAGTAGAGATTTAAATGGTTCAAGGTTCTGCGGGCTTTACAGGA  
AGCATGGTGCCAGCATCTGCTCAGTTTCTGGAGAGGCCTCAGGAAGCTCT  
TAATCATGGCAGAAGATGAAGGGGGAGCAAATTAATCACATGGTGAGAGC  
AGGAACAAGAGAGAGAAAGGAGATGTACATATACATTATGTAATTA AAAA  
GCGTGCATGTGTATGTATTAAAAATAATGGTATATAAACAAATACAATAT  
ATACAATAAAACACCTAAACGCAGAGGCTGCTGTTATCCACAATAGTAAT  
ACCAATAGTATTAATGATGTGTATGTAGACACAGACAAAAGCAGCGGACG  
TATTAATAGGCAGACACACAAAAGCAAAGCAAAAAGCACGCCAGTAATGG  
TGTGGATGCAGTATCAAGATTTGTCTATAGACATAAATCCAGTAGACAC  
TGGAATAGTTTTTGGTATTTTAACTTGAGACAAAAAATGGTCACGTTGGC  
ATTCATATTATATGTAAGTGTAAACAATTGCCCTTTTATGTTTTACATTA  
TGTCTGTCCAATGGCATGTAAACCACACTGCGATATACAATTTACAATG  
CTTTTTAAAAATTTTTTCTTAAACATTTTAAAAGTATTAACCTCACCTT  
TTTAAAGGTACCTTGGCCG  
>Sequence 1157  
GTACAGGCTCCTGCCTTTAAGAGCACTGTTTTGCTTTTGGGGCAGAAAG  
CATGGACTTTTAAAGGGGGACTTGGCATGAATGCATTCAAGAGGAGGGAGT  
GAGCAGTTGGGGGTCTGCGTGA CTGCTTTCGTGCTTAATCTACTGGTGG  
TCGAGCTGGCTGCATCAAGCAGAGCTAGGTTGTATAGTGGCCTTTGTC  
TCAAGACACTCTCCAGGTGGGAGAGCCTTCCATCAGGGACATACTTTAGG  
TTGCAAATTGACTGTTGTCTCTTGAGGCAATCTCCTTGTGGGAGAGAGTT  
TCTGCCCTGGAGCTTCAAAGTAAGCACGTAGTTAGATAAGCTTCCAGTGT  
AGTGAGTGTCTGGTGAAGGGAAGGTAAAGGTTATGATTGCATTTCTGAAG



Table 2

AGCTAGGTAGGAAATGGGAACTAAAAAAAAAAAAAGAAAAAAGTTCCTGC  
CCGGGCGGTCGCTTCAAAGGG

>Sequence 1158

ACCGTAAAAAGAGCCGCGTTTGCTGGCCGTTTATCTAATAAGGTTCCGCA  
CCCACCTGAGCAAGCGTATACAAAGAATCGGACCCACAGTGCCAAAGGG  
GGCGGATACTCCGCCCCGTGGCTATAATGGAATCCACCGCGTTTCGCACCT  
GAAGATTTCTACGNGGCCTCTCCCCTTGACCCG

>Sequence 1159

ACACCAGCCTGGCGACAAGAGCGAACTCCATCACACACACAAAAATTA  
ATTAATAATAATAAACATTGGTCAAAAAATCATAAAGCTGTATCAACTGT  
ATATAATAATTCAATTAATAATATCATGCATAAAATCTGGGTG

>Sequence 1160

GGTACTGGGATTACAGATATGAACTACCGTGCTCCCTGATACCCTAAATA  
TTTATCAAAATTTTTCACTGCTATTTTCTCATGGATTAAAGGGCTATT  
TATTATTTTTTATAACTACAGCTGACCCCTGAACAACATAGGGGTAAAG  
GTGCAGATCCCCCGTGCAGTAAAAAAAAAAAAATCATAAAAACTTTAGA  
TTCCAGAAAACCTTGACTATTAATAGCCTACTGTTGACCGGAAGCCTTAC  
AAACAGTTAATACACATTTTGTATGTTGCATGTATTATATAATGTACCTG  
CCCGGGCGGCCGCTCAAAGGG

>Sequence 1161

GGTACTATAAAGCTTTTGTTCACACACACTCTGAAGAATCCTGTAAGCCC  
CTGAATTAAGCAGAAAGTCTTCATGGCTTTTCTGGCTTCGGCTGCTCAGG  
GTTTCTGTAAGATTTCGAATGAAAAGAAATGCATG

>Sequence 1162

GGTACCAACCCTATTTTACAGATGGGAAAACCTGAGGCTCAGAGAGGTAA  
ATCACTTACACAAAGCCACACAATTTTGAGTGGCAAGCTGGAATGTGAAT  
CCAGGCAGTCTGACCCTGCAGCTTATGTGCTTAACGATACTGCCTCTCAT  
GTGGGCAAAGGATGGCCAGGAGAAAGGCAGGCCAGATTCCAAATCTGG  
GTTGACCGTCTAAGAGGCTGAGTCTTAACCTCTCTGAGCCTTTGCTGTTT  
CATCTGTAAAGTGCTCCTCCTGACAGCTGCCTCCTAGGGTTGTTTTGAGG  
ATAAAGTGAAGTAATGGAGGGCCCTTGGGATATGGTACCTGCCCCGGGCGG  
CCGCTCAAAGGG

>Sequence 1163

GGTACCTTTTTTACCCCTCTGAAATTAAGCAGGCTGTGGGGTGGTGCT  
CTGAAACTAGGTAGAAGTCTCACCCCCCAACAAACCTTTACCAGTGGTT  
TTAGCATGCAGAAGATTCTGGCCTGAACCAGTTACTACTACAGAGGCTGC  
AAAAATGATGATTTTTTTCATTCTTTTGTAAATACCCGGTATTTTTCA  
CAGGATGAATGT

>Sequence 1164

NACTTTNTTTTTTTTTTTTTTTTTTTTCTTCTTAGCAGGGTCTCACTCT  
GTCACCTAGGCTGGAGTGCAGGCAACAGGCCAAGACCCCTG

>Sequence 1165

CCCTTAGCGGCCGCGCCGGGCAGGTACAAACTTTCTTCAGTTCTAATTTCT  
AAGATGTTTCACTCTTTAAGTAGAAATGAAAGTCATCTGACTGAAAATTA  
TAGCAGTATCTAATTGTTTTTCATAACTAGCCAAATTCAGAAATGTCCTG  
GATATATTTCTGGACAATGTAGATGCTGATATCCTTGGATTTAGGTTATA  
CTGACTTTTATCTTTACCAAACCATATTAACATTTGCATTTTATAATTGG  
AATGAGAAATTTAGAGTAAGAGATCTGGATCATGCAGGCAGGCAAGCATC  
AACCAACAATACTTTTATGTACC

>Sequence 1166

GGTACGCGGGCAGTGGTTTTGCTCTATACCACTGAAAAGCACTATAACAT  
AATTGTTGTCCATGATACTGAAGCTTTCCCTCACTTGAGGTTGATTAC  
ATTCAGAGCTCTATCAATAAGAGGAATACATATTACAGTGAATTCGACAA  
CCGCACAAGTTGGCAGTAGGTATCCCCAACCTAATTTATCTTGGTAAATT  
CACCTGTTTCTAGTGCTGCTGGATAAAAGAGTGTTTACTTTTTATTGC  
TCTTAGACAGAGTAGTCTAGATAAGTTTTCAATTTATCAACATAGCCTAG

Table 2

ACTTCTGTAAGTGGAATGATCATTAGTAACTCATCTTTTTGTTGATATAA  
TTGGAAACAGAAACGAGGCTTATTGCTATTGCAGAAATCCCAAACCTGGCA  
AAGGCCAAGTTATATGGTATTCCATAATATAACCAGCTTTTGAAACTTAT  
GTGCTTGGAATTAGTGCCTTCTGGTTACCAAGTATTGACTCTGTTACTTGGA  
CCTTTCGGTCTTAACAGAAAAATTGGAATATGTAATCCTCTTAAAAATTGGT  
CGAACCTAGTGAATGGAAGTAAATCCAGGAATTCTACAGATAATTGGTCC  
TTGCCGGGCGGGCGTTTAAAGGGCGTATTCCAGAACATTGCGGACGTTA  
CTAATGGATTCCACCCGGGACCCAGGCTGGCGTAATATTGGGTGTAATC  
CCTCCCCCCCCCTATTGTTTTGGAATGAAATTCCCCCACCCCCCCCCC  
CCGAGGAG

>Sequence 1167

GGTACTTTTCTGTCTTCTAATTTTTAAAAATTATTAATGTCTTCTATTTT  
CTAAGGCTGATTTTTTCTAATGTCTGATTTTTCTTTTTTTCACATCTTG  
ACATAAGTAGAGTTTCATTTATTTTCAATTTATCTTGATAATAAAATTAC  
TTAAGGTTAGGAATAATTAAGTTTTGCTCCCATGTTTTATGTGTAACAA  
TCTCAATGTTGTATGTCTACTTCAAAATTTCAAGCTTCCCCTTTAAA  
ATACTGTTTAAAAAATTTATGAAACCAGTATTTCTCTCAACCTTTGTGT  
AATACCTGGTTTTACTTTAATGTGGTCAAATAATTTAACCTGTACTGCAT  
CGGCAGTGCCTTCGGACTGTCTATTTGACCTGCAGTCCAACCTATGGCCT  
TTCTCCTTTTGTCTCTAGTTCATTCTCTAACCACCAACCATGAATTTAG  
GGAACCTTTTCTCATTTCTTTGTTTTGTGGCCACTTTCACAAATGTAGA  
AGGAAAAAACCAATGACCCCACTGTGATGTGAATGGCACCCAAATCAGA  
TAAGTTTCCCTGTAGGTTAACCTGCAGCCCTGCGTTGCCACTTGGATTAA  
CTCTGAATTATTTATTCCAAAAGTGCCAAAAATTTGAAATCTTGCTAGTG  
AAAAACTTGCTCTACTTTTTTGAAATGATCAAAAACCCCTAATATTTTCT  
ACTTTATACTTCTGTAAAAATAGATTTTCCATTACAAACTGTCAGAAAC  
TTAAAAATACCTGTCCGG

>Sequence 1168

ACGCAGGGATATACAAAGGTGAAAAGAAACCTGAAATATTTGTTGATGGC  
TGGAATATTTATTTTTTGTATCAAAATAGAGAACTGCCTACCTATTGGTCA  
GAATGTGGAAAAAATACAGAACTCTGTTGGGCAGTTATGGTTGGGCCTTCT  
TCGTTTCTACACAGAGGAATTTGATTTTAAAGAACATGTTATTAGCATCA  
GGAGAAAAAGTCTGCTTACAACCTTTTAAAGAAACAGTGGACCTCAGAATAC  
ATTGTTATTGAAGATCCCTTTGATTTGAATCATAATCTCGGAGCTGGATT  
ATCAAGGAAAATGACAAATTTTATAATGAAGGCTTTTATCAATGGTAGAA  
GAGTATTTGGTATTCTGTCAAGGGAATTCCAAAGGACTACCCCTAAAAA  
TGGAATACTTTTTTGTATCCACAAGTGTTAACTGAAGGAGAGCTTGCCCCC  
AATGATAGATGTTGTCCAAATTTGGGGAAAAATCGGACACTTCATGAAAG  
ACTTGTCTATGAAGAGAAAAAGTAGAACGCGGGGAAAAACAAGAAGACGCC  
CTTGAACAAAGAATACCTGGGACAAGGGAAAAAGAAGCCAGGAGGCCAAG  
AAATTTCCCAACAGGTCCTTTGGCCGGGACACGCTTAGGGCGAATCCACCC  
AAT

>Sequence 1169

GGTACACCTGGTTTACAGAAAAACAAAGCAACTCTTAAACACCAGCTGGC  
AAAATGATAGGGCTTTTCTTTGAATACTACCACAGGTGTGAAAGACAG  
AATGACTAATCCATCTGATTAAACATAGACCTTTTAGAAATCAATAACCT  
TATTTACACAGATGACAACTGCTACTGTTCCAAGGCTCCTAATCATGGTT  
CAGTTCTCAGGGCCTCAAGTCTTTTCCATTCCATCGCAGAGTAGT

>Sequence 1170

GGTACCGCAGCTAGGAATAATGGAATAGGACCGCGTTCTATTTTGTGG  
TTTTCGAACTGAGGCCATGATTAAGAGGACGGCCGGGGGTGGCTATTGT  
GGGAAGTCATAACCCACAGATAGATCAACCTAAGAATCCTGGCCCTTCTC  
CACTCTCCACCATGCAGGACAAACATCTTCTCAAGCAGTCAACGTAGAAT  
GCTTGGGAAATAGTCATAATTACCCACATATAGTAATTAATAGATGGTAA  
TTAATTGATCCTTGATGTGATGTTCTTTTGCATATTTCCTTCATTCTAAA  
GATGTTCCCTGGCCGGGAGCGTTGGCTTTCGCTGTAATCCCAACACTTT

Table 2

GGGAGGCCAGGACAGATCGCTTGAGGTGAGGAGTTCGAGACCAGCCCAGC  
CAACATGGCGAAACCATGTCTCTACTAAAAATACAAAAATTATGGTGACG  
CCTGCCTGTAATCCCAGCTACTCGGGAGGCTGAAGCAGGAGGATCGCTTG  
AACCCATGAAGTGGAGACTGCAGTGAGCCGATATCGCACCACAACGCTTC  
AGCCTGGTTCGACAGAGTGAGACTTCATTTCAGAAAAAAATAAAATTAAG  
TTGTTCTCTTAAGAAAAAAAGTCCTTGCCGGCGGCCGTTCAA  
AAG

>Sequence 1171

ACAGGAGGAATGTTTGGTTGGGAGAATCACAGCTTTACAAGGGTGTAT  
ATTTGATTTGTGTTTATATTTGAGGCAGGTATTGTAATATAAAGGAATCC  
ATTACCATGTCCTATAAATGACCTCTAGCCATTTTATGATTATGTTCTCT  
GTAAACTCTTCAAGACTTCAATGAGAAGTTTGTGTTATAAGAATTATCTT  
CTCATACCTTTCTTGTGAGAGCGTATTCTGTTTTCTATCAGTTTCGAC  
ATGAAGTCCACATCACATGCTGTTCTTTCTAGTTACATGATGTGCCCT

>Sequence 1172

GGTACCAACCCTATTTTACAGATGGGAAAACCTGAGGCTCAGAGAGGTAA  
ATCACTTACACAAAGCCACACAATTTTGAGTGGCAGAGCTGGAATGTGAA  
TCCAGGCAGTCTGACCCTGCAGCTTATGTGCTTAACGATACTGCCTCTCA  
TGTGGGCAAAGGATGGCCACGAGAAAAGGCAGGCCAGATTCCAAATCTG  
GCTTGACCGTCTAAGAGGCTGAGACTTAACCTCTCTGAGCCTTAGCTGTT  
TCATCTAGAAAGAGGACCTCTGACAGCTGCCTACTATGGTTGTTATGAG  
GATAT

>Sequence 1173

ACGAAGACAGCATCCTTCAATCCCGCCAGCTCATGTGCATCTGAGGGTGG  
GGCTCTGTCTTCATGCTAGAAACCAAACTGCTCTCACAGCTTCCTGCTAA  
ATCACCACGGCTAACGGATAAGCAGAGACGGACTACCCGCGTACC

>Sequence 1174

GGTACAGATTGCATAATAATTTTATAGATAAATGTCAGGAACAGAATCACA  
TTCTTAAAGGCCGAATTTCTATAAACGTGTGTATATGTTGAACAGATGAG  
CAGCTCTGCAAAGATGTGTATAACTGCATTTGAAAAAGACAGTGAAAATT  
TTGGGTTACTGTAGATGTCCACAGTCTGGCTTGGAATTTAGTTCTGTGA  
CTAAAGGAGGCTTACAGTTGCTCCAATTTTGTTCTGTGGGGTACCTGCC  
CGGGCAGCCGCTCAAGGG

>Sequence 1175

GGTACATGGTCACAACAGATGAGCAACTGATATCACTCACACATGCTATT  
AAGAAGTGTCTGTGATAAATAACAGACAAGAAATTCAGGCATCAGAAAG  
CGGAGCCACAGGTAGAAGAGTTATGGACAGTCCAGAGCGTCCAGTTGTAA  
ATGCCAATGTCTCAGTGCCATTGATGTTTCAGAGAGGAAGTGGCTGAATTC  
CCACAGGAAGAGTTGCCCGTTAAACTGTCTCAGGTGCCAGACCCTCCAGA  
TAACATGAATCTGGCCAAGAATTTTCCAGCACATATTTTGTAGCCAGCTG  
TGTTGTTAACACCACC

>Sequence 1176

ACCGCGCCGTTAAACATGTGTCACTGGGCAGGCGGTGCCTCTAATACTG  
GTGATGCTAGAGGTGATGTTTTTGGTAAACAGGCGGGTAAGATTTGCCG  
AGTTCCCCGCGTACCAATGACTGGTTCCATGATCCCCTAAGAGAACACAA  
CTTAGGAATGTGGATTCTAATGATAGCTTTATACTGCTTAGGCAAAATTA  
CTTCTGAGCCTTATGTGCCTTCAGTGGTGCAAGCAAATTTCTTTTACACT  
TTAGAGAGGTTGATTAAACGAGTACC

>Sequence 1177

GGTACACTGAAGAATTAAGCTGTAATGAGGCAACACGCCTGCAACTTATT  
CTTTAATAGTTCAGAAATATTAACAATTGGGTAATTTGGGTGAAAGGTAT  
AAGGAGCTATAAATGTTATTTCTGCAACTTTTATGTAAATTTCAAGTTAT  
TTAAATGAAAAGTTAAAAAGTTTAAACATAACAGAATAGAACATAACC  
TATTAATAAATCTGAGTCCAGGCATGACACAGTGGTTCATGCCTGTAAT  
TCCAGGGAGGACTGGGAGGCCGAAGTGGGCAAATCACTTGAGGTCAGGA  
G

Table 2

## &gt;Sequence 1178

ACTAAATTGTTTTAGAAAGCAAACCTACAGGACTTAAAAAAGGTGATTTTT  
TTTTTTGGCTGCAAGTAGGCACTTATTGTAATTTTTATTCATGCTATGAA  
CTCATGATTTTCCCTTTATTCTCCTTTGATCCTACTTAAATAAATTTATA  
GAGTATTGAATAATATAGAACCAAGATAAGAACCCTAAGAGACTTTAGAT  
GTTTATTTGTTTCATTAGCACTCTGAGTACC

## &gt;Sequence 1179

GGTACTTINTTTTTTTTTTTTTTTTTTTTTTCTTTTTTTTTTTTTTTTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTATTAAAAAAACTGCCTCC  
TTTAATGGCAGGAATACAATTCCTTGGTTAAGAGACCCCGGAAAAAAGGC  
AGGTGACTTTTTTGGAAAAACAAATTTGGGAGTTTAAAAAGGGTGTAATAAT  
ATTCTTGCGGCGATTTTTTGTAATAATACAGTTTTATGTTTTCTTTTTT  
GCGACACCCAATCTTTAAACTCTTGAAACAGGTTTTTCCCTTTTTTTTT  
ACAAACCCTGGTTAAAAAACCAATTTTTTTTTT

## &gt;Sequence 1180

GGTACTTTTTTTTTTTTTTTTTTTTTTCTTTTTTTTTTTTTTTTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCCCCAGGGGATTTTAT  
TCCCTTTTAAAAAAGGTTTTTAACAGAGGGTTTTTTAAAAAATTGGAC  
GGGGGGGAACCTGGACAGGATAAGGGGGAAGAATTTTTTTTTTTTTTCCC  
CCAAAAAATGGTTTTTGGGGGCCTGAAATTTAAAAAATAATTTCAACCGG  
GATTTTGGCACGGGGGGGGGGGAAAAAAGGTTAAAAAATAAACCCCT  
AAAGGGACCGGCTTAAAAAGGGG

## &gt;Sequence 1181

ACTTAGGCTTTCATAAAAAATACAGCAGGGCAAGAGGACCAAGATGGAGGC  
AGTGATCAGGGAATCTCAATGAGGGTGAGACTGCGACAAAGACTTGAAAA  
AGGTGGAGAAGCAAGCCTTGTGGGTATTTAGGGTAGCAGTAGTCCAGGCA  
AGGGGAACAACCTAGTGCAAAGGCTCTAGGAGGCAATGTGTTGAAGTGT  
TTAAGAACAGTAAGGAGGCTAGTATGGTTAGAACAGAATGAGCAAAGGGG  
CAAAGTGGTAGAAGGTGGGATCAAAGAGGTAATGAGGCCATTGTGGAGGC  
CCATATGGACTATTGGN

## &gt;Sequence 1182

GGTTCTAATGAAAGCCAGATAAAGGGATGGACGATCACAAGGTGAAGTCC  
CACAGTAGGCTATCTGCAAGCTGAGGAGCAGGAACCGCCAGTCAAACCTCA  
AAAGGATAAAAGGGNNGGAAGCCGACAGGGCAGCCTTCAGTCTGTGGCTG  
AAGGCCCTAGAGCCCCTGGCGAACCCTGGTGTAATCCAAGAGTCCAAA  
AGCTGAAGAAGCTTGGAGTCCAATGTTTGAGGGCAGGAAGCACCCAGCACG  
GGAGAAAGATGGCCGGAAGACTCAGCCAGTCTAGCATTTCACATTCCCC  
CGCGTACCTGCCCGGGCGGC

## &gt;Sequence 1183

ACTTTTCTTTTTGTGTATTACTTTTCACTTAGCATAATGTCCTCCAGCTT  
CATCCATAGCAGCTTCATCCATAACTTCTGGGTGTAGCCATGGCAAGGGT  
AAACTGATATGGCACACTGGTGGGCATGTCTTCTGGAGAGGTGCTTCCAA  
CTCTTCCCTGTTTTAGCTAGTCCCTCAATTTGTCTGATGTCTGAACCCAC  
TGCCAGAGTTGAGTCTTGCTGCTGAGTCATGTCCAGACTCCTACCTCAG  
AAGTATGAAGCATAACTGGTGTTACAAACACCATCTTCAGAACAGTGATT  
AACCTTACGCT

## &gt;Sequence 1184

ACGCGGGGGAAGCTCATTCTATACCCGAAGAGCAGTCTCAGAAAGCAAGA  
TTACTTTTGTGTTTTTAAAAAATGATTCTTTAATGTATTTTCTAAACA  
TTCTGATTGGAAGTAGTGGATTCTAAATGATTCCAAAGTCATCTGTAAT  
TCTTCTGTTTTGTTTTGTTCTGTCTTTTCTTCATTTTGGCTTTGGGTGG  
GGGAGGGGCAGGTGACACANAGGATTTTTTTTTTTTTTTTTTAATTTT  
GGAATCTTTTCCAATAACCAGCTAAAGATTTGCACTGAAATACAACCTGT  
ATGCCTTTTGCATT

## &gt;Sequence 1185

ACTCCTGTATTTGTTCTTATGAAATGACTATCTGCCTTCTCGTATCTAGT

Table 2

AAGATTGGCTGGCTCAACTTTCTTCTGTCAAATTATATGGTTATTTTTTA  
TATTACCACATCAGCATTATATTTAAAAGTGTTTTTAATAGTTGAATGTAT  
TTTGCCAACTACTAGTATAGACTCAAATTTGCTATTTAATTTTTAAAATA  
CAATTTATTTTGTAATCCTTTAAAAAATATTTGGTTAGTTTTGGATTAG  
AAATGATTTTATGTTAGCCATGTGTTGAAGATGAAATTGGCATCAGTGATG  
ACGGTGCTGATTG

>Sequence 1186

ACATATCCCTATCTACTATGTAAAGACAAAAAGGCAAATGAAATGATGTA  
ATACAATGAACTCCTCAGAAAAATAAGCTCTGTAAAAATCTCAGACTGCCTG  
TTTATCATATGCTAGAGTAAACTTACATTCCTTTCTTGTTAGAGAAAAAT  
GATGGTAAAATCCATGCATTAATCAAACTAAAAACATGAAAAGGCAAGC  
CAACTACAAGAGAAATACAGTTGGCCCTTGAACAACACAGATTTGAACTA  
CATGAGTCCGTGTACC

>Sequence 1187

ACTCTCAAATAACCTGTGAGTTGGGAAATTCCTCTCCTCTTGAGGTCCCA  
AGATGGCGTGGGGTTCTGGGCCTGTGCGAAAGTGGCATTCTTTACTAAC  
CACAGGTCAGGAACCTGTCACAGGAACTGTGTAGACAAGGTATGAGGCCA  
GTTTTCCCAAGGAACTTTTATTGGCTCCATAAGTCAAGTTTGAGTCCTTA  
AAGGAAAGCACACCAATTCCTCATCAAAGTCTGGTAAAACAACTAGTTTCT  
CTAATTGTGTCCTGTTGCAAAAGAAAACAGATTCTTATTGCACTTGTCGA  
AATG

>Sequence 1188

ACATATCTTACTTGATTATTTTATTTTCTATCCCACCAATCCACACCTTC  
ACTGGAAAGTAAGTTCCATAGAGGCGGAGACTTTTGCTATTTTGTTCAA  
TGAACATCCCAAGCACCTAGAACAGTTTCTGACACATAAGAAGTATTCAA  
TTATGTGCTGGCTGAATGTATGAATTAATAAGTTGAGATTCGATCACTAG  
TTGAAGTATAAATATATATTTTGAAGAATAAATGCTACAGTAACTGAT  
TATGACAGCTAATTCTGTGTACC

>Sequence 1189

GGTACAATGGCATAGTTGAGTAGTCAACACAGGACCTAGCTGAAATCCTA  
AAATATTTATTATCCCTTTATAGGAAAAAGTTTGTTAATTCCTACAAAGA  
CAACGAACTATCAGAATCTATCATACACAGCAATGGTGAACACCTATTCC  
AGTTGGGGTGTGTGTGTGTTTGTGTGTGTGTATGTGGTGGGTATAGT  
GTNNANTGTNTTNTTACTGTGACCATGTNNAAAAAATTA AAAACAATAA  
ATTAATGACTGTTTAAGTGCTTAAAACCATGCCTGGAACATAGCAAGGTC  
TGAATAAATGTTAGCT

>Sequence 1190

GGTACACCTGGTTTCACAGAAAACAAAGCAACTCTTAAACACCAGCTGGC  
AAAATGATAGGGCTTTTCTTTGAATTAGTCAACACAGGTGNGAAAGACA  
GAATGACTAATCCATCTGATTAAAGATAGACCTTGGAGAAATCAATGACC  
TTATTTACACAGATGACGACTGGTACTGGTCCAAGGCTACTAACGATGGA  
TACGTGAGCAAGGCCTGAAGACTTATGACAGAGGGAGGAGGAGGGATGCC  
TAGCCGGGCGTNCGGTGGGAAGGGCAAGAGGTAAGAGACCCGCGAGTGCG  
GGGGAGATGGG

>Sequence 1191

GGTACTTCTACCATCTTTTGTCTACTTTCTGACTTAAACTGCCATCTGT  
GATACATGAGGACTTACCTAAAATGTCTGAGAACTGACTTACGCTTGATT  
ACCAATGTTTTGGAGTTTATAAAGCTCAATTCTAACAGAACATGATGATG  
TATAAAAATAATCTTAAAAAATAAAATATGATGGTATAGTAATAAAGTAA  
AAATAAATATGGT

>Sequence 1192

ACAAAACAAATCTGAAATATCTTATTAACAAGAAAAGTAAAAATGTTATC  
AAAACTACTGTCGTCTCATCAAAAAGATTGAGAAAGCAATTTAAAGAGT  
CTCACACTGGACACAAAAATAATTTGAGCTTCAAAATAAACTGCAAGGGA  
TTAAACACATAAATGTGTATAAATCCACAAGTTCATAATGATACTAAA  
AAAAAAAATCTTGTTGGTTTCTCTAGAGGCTACTAGAAAAATCAGCTCA

Table 2

TTATTTCTGATATTGGTTTAAATAGAAGAAAAGAAACCAAGCATC  
>Sequence 1193  
ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCATTCAAGAAAGATAAT  
TTTACACTTATTCTTTGAAAGAGAAATTCTATGGAATTTCTTCTTCTAA  
TTAATTCCAAAATACATTCTCTCAACCCTATGCCCTCATACTAGTAACT  
TGATGGTTAGCGGGTAAGTAGGTAGTAGTAAAAGAACAGAAGGGGAAATT  
GGGGGAGCAGAAAAGGGAGAAAAGAAGAAAAGGGAACCTTCTAGTTTCC  
TAATAAAAAAGCTAGAGAATTCCATTCTGAAAATTAAGATATT  
>Sequence 1194  
GGTACATATACATTATGTAATTA AAAAGCGTGCATGTGTATGTATTA AAA  
ATAATGGTATATAAAACAAATACAATATGTACAATAAAACACCTAAACGCA  
GAGGCTGCTGTTATCCACAATAGTAATACCAATAGAATAAATGATGAGTA  
TGATACACAGACAAAAGCACAGGACGTATTAATAGGCGGACCCACAAAA  
GCACAGCATAAGCCAACTAGTGTAGCGCACCGGTAGTGTGGTGGTGGCGG  
GATCTAAGATGTGAACGATGAAAATAAAGACAGCGCATCCCGGACGACCA  
CC  
>Sequence 1195  
GGTACATAGTGTGCGGAACCTCAAAATCGGCATTTAGATAGATCCAGGTGGT  
TTAAACGGCACGTTTTTTTGCTTATAAAAAAGTGCAAAAAAGATGTGGTT  
TACAAGTTAAAGCTACCAAAACCCCTTTTTTGCTGGAATTGCACCAGTTTT  
AAAGCCTTTTGGACAGAACCAATTTTGGTTTAAAACTTTGTTTTTCTTT  
AAAAGCTTACAGGGGTTTGGCTTAATCTTCCCTTTTTCAAAAAACG  
GGGGCCCCGAGGGTTGGCCCCCTTGGGGGAAGGGTAAAGGGTA  
>Sequence 1196  
GGTACTAAAGGGAAGTTGCTAGGAAATAGAGCATGTAATCTTATTGTAA  
TTATGGAACCATGGCAACACAGTAAATATTATGTCTCTTAATTTGTCTT  
TCAGTGATTTTTTGGCATGAGTGTTATGGAAGAGTAAACAAAATTAACA  
CAGTGAACCTCTGAGTCATTTGCTACCCGAGTTAGTCATTTTCTTTTGAAG  
GTTGTCCANACAAACACTTTTTTTTTTTTTTATTTTCTCCCCCTGTTGTGT  
CGGGGCGGCAGAAAAAATAAATGAAAGATAGGGATTATAGTT  
GTATTT  
>Sequence 1197  
ACAGGAAGTGTNCGGAGGAATATATAGAAAAGTCTAGGCTTAATTCTC  
AGAGGGAAGATTGGGTGTTTGGAGTGGGAAGCAAACATTTTTACTGTAT  
ACACTTGTACC  
>Sequence 1198  
GGTACATGGCCCGCTCCCCGTCCATTCCAGTTTCTGCCCTCTACTGGC  
CATGACGGTCATCACAGTGCCTCCTCATTCCTAATTTTAAATACACTT  
GAGACCGCTGATTAATCTTGCACTANGAAAAACAGAACAAATACAAACAA  
GTAACAAAAACAAGACACTCACATACAATGNTTTTAAATGCTTGAAAAGT  
>Sequence 1199  
GGTACCACATTCCTGCTCAGAAACTGCTCACTTCCTTAAATTGCTTTTT  
TCCCCAGCGTGAAATGTATCCATTTATAACTGCCATTTGCCTGTCTAT  
TAGCATCCAAAAATGTGGAAGGCCTCCCAACCACCATNTCTGCTGTGTNC  
TTAGGATGTGCAGNAAAAAATATAGACCTAACAGGTTATGTTATAGAATG  
GCTTTATTTACTTTGGTGACTGTTTATGAGTTTTAAATAAAAGACTGAAC  
ATTTTCTCGAAAAAATAAAGAAAGAAAGTACCTGCTCGGGCCGG  
CCGCTCGAAAG  
>Sequence 1200  
GGTACTTACAAAAAGCAAGAGAGAACAGTGGTTAAGGACGCTGACTCTG  
GAGCCAGATTGTTTGGGTTCAAAATCCTTGCTCTGTCTTACTGTGACGA  
TTTTAGGCAAATAACCTAACCTCGCTGTGCCTCAGTTTCATCATCTATAA  
AATGGAATTTATAATAGAACCCTACATCATGAGTTGGTGTGAAGATTAAAT  
ATATTTATATCCCGGCTGGGTGCGGTGGCTCAACCCTGTAATCCCAGCAC  
TCTAGAAGGCCAAGACAGACAGATCACCTGAGGTCAGGAGTTCAAGACCA  
GG

Table 2

## &gt;Sequence 1201

ACGGAAGAGTAAGTGGGGAGGGATGGGAATGGTTCCTTGAGACAATCTTT  
TACTACAGTAGATGCTTCATGGATGGGAGAGTAGGGACTGGTGACTTATT  
TATAGCCTTCTCTTTTAAAAAAGGACCCATTTCTCTCTTGAATGGTGTGG  
TGAAAATTAAGAAAAAAAAAAAAAAAAAGAAAAAAAAAGAAAAAAAAAGTACC

## &gt;Sequence 1202

GGTGCTTTTTTTTTTTTTTTTTTTTTTCTTTTTTTTTTTTTTTTTTTTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAATTCAAAAACATTTTT  
TAAACTTTTTTTTGCCAAAAACTTTTCTTTGGAAATGCAAAAAATAAAAA  
GGTTCCTTTTCTGCCCTTAAGGAGCTAAAATTTTAAAAAAAACTTTTAA  
AAAATAAAAAAATACAATCCCTGCCCGGGCGGCCCTTAAAAAGGGCA

## &gt;Sequence 1203

ACTAGTCCATTCTCACACTGCTATGAAGAAATACCTGAGACTGAGTAATT  
TATAAGGGGAAGAGGTGTAATTGACTCACAGTTCTGCAGGGCTGGGGAGC  
CCTCAGGAACTTATAATCATGCCAGAAGGTGAAGCAAGCATGTCCTTCG  
CATGGCAATGGCAGGGAGAAGTACC

## &gt;Sequence 1204

GGTACTTTTTTCTACAAATGAGTAATTGAAGAATTTTGTTTAGCCAGAC  
CATTTAATTCTCATCAATTGCATAATATTTCTAGTTAAATCCGAACCTCA  
TTCTATATTAAGTAACATTTTATTCAGATCCATATCTAAATAGCAATTT  
GTGAGATTTACTAAGAATTTTCTGGTATGTATGGTTTTGGTGTATTGG  
AATGTACCTGCCCGGGCGGCCGCTCAAGGG

## &gt;Sequence 1205

GGTACCAGAAGCTAATCCCCACCGGGTGGTTTAAATAGGGACTAACTA  
CTTTGGAGGACATGGAAGATACCTCAAGTTTAAATGCTTATAAACCAAGG  
CTCAGCAATATTCTAGTTAATACTCTAGAGGAATGCTTGCACAGTGCCCA  
AGAAGGTATTAAAGAATGTTTATTCAGGTGTTATTTGTCATAGTGAAAT  
ACTGGAAGCACTGTAACGGTCCATTACAGAAGAACGGATAAAAACTATTG  
TGACTAATTTATATAACAGTATAGCATACGGCAGAGAAAT

## &gt;Sequence 1206

CCCTTAGCGGCCCGGGCAGGTACAAACAATTTTTTTTAACTAGCAGG  
GCATGGTGGTTTGTGCTTTAGCCCTAGCTACTTGGGAGTCTGAGGCAGG  
AGCACTGCTTGAGCCAGGAGTTTGAGAATACAGTAACTGTATCACACC  
ACTACACTCCAGCCTGGGTGAGAGAACAAAACCTGTCTGAGAAAAAAA  
AATTAAACTGAGATGCATTTCCCCCTTTTACACTAAGAAACAGACCCTT  
CTTTGTTTCTCACTGGCGCCAAAGGGAATGCTGTATGAGCATTTCAAGT  
GCAGATGCAGCTGCGATATCAGAAGACCCCG

## &gt;Sequence 1207

ACCTTGATCTCTAGCAACGAGGGAAAAATAAGAAAGATCAAGATTATTGTG  
TCTAAAGAAAACTGGGAATATATATACTTGACCCGCTTCACTTGCTTACA  
TTGCTGTCTGATTCTTCCAGGCATTAATTAGAATTTGCAACTCCTAGCT  
GGGCACAGTGGCTCATGCCTGTAATTCAGCACTTTGGGAGGCCGAGGCT  
GGTAGATTACTTGAGGTCAGGAGTTCAAGACAAGCCTGGCCAACATGGCA  
AAACCGCATCTCTACTAAAGGTACC

## &gt;Sequence 1208

GGTACCCATATTGCTAATGCTAGGATCAAGATACCACATAGCCAGAACAA  
GAAGTTGAAGGTAAACATAGAATATTTTATACAGGCACTCACACCTGCCA  
TTTCGGAAAAGGATTAGGAATCCAGATGCCGTGAATTTAACTATTCTGTTA  
CAGGCTTGCTCTGCAATATGCTCTGGAGCAACTTGCCTGCAGAGATTCT  
GTATCCACGGACATTTAAATATCGCAAAGGCTATCTCCAGGCAATGATGT  
TCCTTTGCTTGTCATCCCCGCGT

## &gt;Sequence 1209

ACGCGGGGGAGGTCTCCATTCAAGTAGGTGGCCCGGGATGAAGGCCGTGTT  
GGGGCTAAACCACACTCTGGAATTCTGTCAGCAAATTCCTCGCTGTGTGA  
ACTTGAGCAAGCCATTACCTTTCTTAAGCCATTTTCTTGATATTTTACA  
GAGCCTACCAAGTATTCAACGAGAACATGTAAGTGAAATGCTTCACAAA

Table 2

ATGCCTGGTAAATAATAGATGCTTAGAAAATGGTAGAGAGAGAAAAGAGC  
AGTCTCTGCCCTTTAATGTACC

>Sequence 1210

GGTACATTGTGAGAACTCTGGAATTATTATTTTATTGATTATTACTAT  
ATTTTATCTGACTAGAAGCCATTTATTACCAAACCAATTTATTCTTAGA  
GTTGAAAACCGTCTGTGAGAAAGCTTCTCTGGCCTGGATGGAGATCCAGCG  
CTTTTTTTTTTTTGGAGCAGAGTCTTGTCTGTGCGCCAGGCAGGAGTGC  
AGTGGCACGATCTCTGGTTACTGCAACCTCCACCTCCTGGGTTCAAGCAA  
TTCTCCTGCCTCAGCCTCCCGAGTAGCTGGGACTACAGTC

>Sequence 1211

GGTACTCCTGCCAAGAGGGGCGACAAGTTCAAGCTGAGTAAGGGGGAAATG  
AAGGAACTTCCGCACAAGGGGCTGCCAGCTTTGTGGGGCATTCCAGAGA  
ACCATGTGCTGTGAGGGCCTTCCGAGTCCATCTGTTTAATCCTGTCAATTG  
GAGACTTGAGAAACCAGAGCCCAGAAGGGAAAAGTGATTGTCCAAGATC  
ACACAGCACTGGAGAAAAGTGATGAGGAGGGGCTGAAGAAGCTGATGGGC  
AGCCTGGATGAGAACAGTGACCAGCAGGTGGACTTCC

>Sequence 1212

ACATACAGTTTACATTGTGGTAACAAAAGTAGGACATGCTATGAAGGCCCT  
TTGAATTCGCTTGACAAGAATGACAGAGATCTACTAGACCCAATTTTAA  
ATAATATTGCTGGTTTTTGTCTAACATGAATTAATAATGGTGGCTAATG  
TGCAGATTTTACATTTGGAGAACTTTAATTTTCAGTATTAATTAGAATTT  
GTTAATATTACAAATGCATTTAATGACACTTAAAATTGTACC

>Sequence 1213

GGTACCAATAAGCATACCTAGAGTTGAGATTTTGGTTTCTAAATGCCATT  
CTCCAATTA AAAAGGAATCAAAGCACCTCAGATAAATGTTAATTCCAGG  
GCTGGGGCAGGGAAAAGTGAAAGAGAATCACAGAACATCCTGTAATGACAG  
AAAAAAGTCACAATAAATGGTGGGATTATGTCAAAAAGGACATGGGATTCA  
ACTTGAAAGATCTTCCAATAGCCAAATCTGAGAAAAGTTAAGCAACAAAA  
AAAATAACAAAATCTTATAATCTATAGAAAAAATATGAATGTATA

>Sequence 1214

CCCTAGCGGCCGCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTT  
TAGAAATTGGCGGCAGTTTATTAGTCACAAGTCTCACAGGGAGGGAGGT  
CACCACATGCCATGCGGGGTCACAGGAGAGTTGCATTTGGGAATAGAGTG  
AACCAGTAGGGGCTGTGGAAGGCAGGCTTTGCAGTAACAAGAGGAAGAGG  
CGATTCTGGCTCCTCCAGATGTGACAGGCTTGTGTAATAATTTTCCAG  
GCTGGAGGGAAAGTGACCCAGTTGAGACCCAAGGAGGGTACCTCGGCCGC  
GACCACGCTAG

>Sequence 1215

ACAATTAATTGTGTTCTTGTGACCTGATGATTTTTTGAAAATTTGCTTTT  
CTCTTAAGAAATTTAAGTTTTCAAGGGCCGTATTAGTTATCTAAATATT  
TTGGGCTAATGTTGACTTATAAATAAATAAAAAATTTAGAAATATATTCAT  
GATGACAATTTTGTACTTACACTGCCTATTCTTTATTTCTTTTTTAGTT  
CAAAGGTGAAATTTTGACCTTTGTATTAACAAAGCCTCAAGAAAAGAGAA  
ATTCTGCCTTTTAAACATTGGTTTTTCCTTGCAAT

>Sequence 1216

GGTACATGGAGGAAGTGGAGGTAAATCGAAACCGAGCTGGATTACTTCCG  
GTCTGAACTCAGATCACGTAGGACTTTGATCGTTGAACAAACGAGCCTTT  
AATAGGCGGCTGCACCATCACGGATGTCCTGATCCGACATCCTGGCCTGT  
AACCCTATTGGGGATCTGGAATCTAGAATAGGATTGCGCTGATATCCCTA  
GGGTTACTTGTGCCGACGGGCAAGTTATTGGATCAGATTGAGTATAGTAC  
TTGCGCTCTGACTGGTGGAGTCTTACCATGT

>Sequence 1217

GGTACCACTGTGCTCTAGCCTTGGTGACAGAGCGAGACTGTCTTAAAAAA  
AAAAAAAAAATAAAAAAGAATTTATTAATAATTTAAAAAATAAGAAAAA  
AGCTGCATGCTTGGTTTTTGTGTTTATTTAGTTATTCTACATTGTTGCCATTAT  
TACCAAAATATTGGGGAAAATACAACCTACAGACCAATCTCAGGAGTTAAA



Table 2

TGTTACTACGAAGGCAAATGAACTATGTGTAATGAACCTGGTAGGCATTA  
TTTATTGAATTATCATCATTCCATATGTCCAGCACATTTTAAATAGGAAA  
GT

>Sequence 1218

GGACAATGTTAAATATCTGACTTTTCTATGATTTGGCTTTTCTGCTTGAG  
TAACTATTTAAATATCTGCGTGATCTTCTTTAATTTGGGCTACTTCTAGA  
ACAAAACAGAGGTATTTACAACAAACCACTTGCCACAGGGCCTTTGAACC  
GTTTACCTAAGTCAAGTGTAATGAAAAACATAACCAATGCACCATGGGG  
TTTATTGTTAGATAATAAAAGGCTTAAAAAGCCCCTAGACCCTAAAAATG  
CCTGGGATGGATGATTGATGCTCATATGCTACTTGAGCATGTA

>Sequence 1219

GGTACCTTTTTTTTTTTTTTTTTTTCGTCAAAGTCACTATTTGGGCCCTAA  
CATAATCCTGCTCAGAGCGACGGAAAAAAGGCAAGCCTTTTCAAACATAA  
CTCTCTCTACAAGCCAGCTATTATGGCAAGGGAAAAAAGAAAGCATCTAG  
ATAAATATCTATCAAAATTAACCTTAAAGAGAAATACTCTCTTCTTAAA  
AGCCCTTATTTTTTAAGACACTAGAAAATAAGTTACTATAAAAAAGTGGTG  
GTCTGGGGGCTAAAAACAAAACAAAAAAATCCTCTTTTCTACATTTTTT  
AGTTTTT

>Sequence 1220

GGTACAGAATTATCAACTGATTTGGTCAGTTGCTTCCAATGCTGGTTGAT  
TTCCCTCATTGTGTAAACATTGACAGGTATGTGACAAATGGGAAAAAAA  
TCCAAATAATAAAGTGACATATTGGTGTTCAAAAAAAAAAAAAAAAAAAG  
AAAAAGAAGTCCTTTTTTTTTTTTTTTTTTTTTTTGTTACTTAATAAAAA  
ACTGAGTTTTATTTCACATGTATTTGTTGGNTCCCCACCTTTTCCATGT  
TTGACCACCGCTACTACTTAGTCCTATCATAACATTCCATACATACTTAA  
AACC

>Sequence 1221

GGTACCTGAGCCAGGCCAATCAAAGTGTTTCTCAGGAATTAGGAATTTCA  
CACATAAAACCTGGAGAGATAGCATGCTCTTCTTTCTTCTTGGAAGT  
TGAGCTGTACCTGCCCCGGCGCCGCTAAGGG

>Sequence 1222

ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTATTTTTTTTTTTTTTTTTTT  
TTTTTAACAAACCCTGTTCTTGGGTGGGTGTGGGTATAATACTAAGTTGA  
GATGATATCATTTACGGGGGAAGGCCCTTTGTGAAGTAGGCCTTATTCT  
CTTGTCCTTTCTGACTGGGCTGGAATACCTAAAACCTACGTGTAAATGTA  
AGTAGTGACCAATAGAAAATAAGGTTACCTTAACCTCTTTTCTCTGGG  
GGTTCTAGGACAAAAGTATAGGCATTGCCAAGGTCAAAGAATCAA

>Sequence 1223

ACACTGAACAATTTGTTAAGATAGATCTCACCTTGTGTTCTTACTGAAAA  
AAAAAAGAGAAAGAAATAGAACAGAAAAGCAATTGGATTTTAATTCTGGA  
AACTCCTTTCTCTTCTTACATCCAGGAAATTTGCTGTTTATTTTGAAAA  
GCAAAATTTAAACCTATTTAAGGGAGAGAGAGCTCTTGTAATAAATTCATT  
ATTAGTCTGGACCAATGTTATTTATAAGCTATTATTTCAAATGATAAAA  
AATAAATGCATAATACATTGATGATAGAACATTTTCTTTTTA

>Sequence 1224

GGTACTTCTCAAGACCTCACTTTTATCTGTGAAATGTGGGGAAGGTTAT  
AAGTAAATGAATGAGGGGTGAGGTTGTACCATAATGCGCCTTGAAAGTAAT  
ATTTGTGGATAGCTAAAAGCAATTTTGGTTTATAGGTTTATTCTTTGGT  
TTATTTTGGTATTGATCATTCTGTTGTTGGTGTATTGAAATAGTCATAAAA  
TAAGATCTGTATGAATTGTATTATCTTCTGTATCTTAAGTATTAGTGTA  
ATATTGTATTATGGATATATGATGCAGATTGAGATTGATATATAGACAGT  
ACCTGCCCCGGCGCGCTCTGAAGGGTCGATTTTCAAAAAACTGTCTGC  
CGTTTCTACTTGGATCCGAGACTCGAACTAAATCCTGGCGTTGTCATGGA  
CATAGCTTTTTTCCCGTGTGAAAGTGTTAATCCGATGACAATTCCACACT  
AACATTCTAACCCGTAAGCATATTTTTTAACAGCCTTGTTATACTTGAGG  
TTGTGCACCACACTCACATAAATTTCTTTAGAGCTTGGGGCCCGGTGTC

Table 2

CAAGGGTTAAATATATAACTCTTTCCGTCTTTTAATGGAACATTGCTACG  
TTTCGCGTAGAAGGTTTTTATCTGTGTTAACGCGTTTATTTCTTATTAC  
AAGGGCGGTGATACGGGGTATCCCAATATATGATTGTTTCCACCCTG  
TATAGTAACTCTCTTTAAATTGGTTTCTGCTGATGTTTCCTAAAAATCTA  
AAGGAGACGCCCTGTTGTGAGTTATTTTATTATGTATCCATCCCCCTTT  
CTGTGTCAAATAAAAGCCGTTTCATAT

>Sequence 1225

GGTACATCATTTGATGTATGTTTTTGTGTTTTTAAACATAAAAGGATTATA  
TCCTTTTCCGCCAGCTGTTTTCACTCAATACATTGTGAAAAATATTTTAC  
ATATGTTGCATGGGTTTCTATAACATTTGAAATGACTGCCAAATATTTCA  
CTGTATGATCATCATTTAATATTATTATCAATTTTGTATATTTAAGTTAG  
AACTTTTCCATTACCATAAACATCATTATGAATGAGCTTTCTTGAAGTGT  
ATTTTAATATACTTCCTTAGGATAAATGCTTAAAGTAATAA

>Sequence 1226

ACATATACACTATGTAATTAAAAAGCGTGCATGTGTATGTATTTAAAAATA  
ATGGTATATAAACAAATACAATATATACAATAAAACACCTAAACGCAGAG  
GCTGCTGTTATCCACAATAGTAATACCAATAGTATTAATGATGTCTATGT  
AGACACAAAACAAAAGCAGCGGACGTATTAATATGCAAAACACACAAAAGCA  
CACAAAAGCAAAGCAAAGCAGCGCCAGTAATGTTGTGGATGCAGTTTCA  
AGATTTGACTTATAGAGATAAATCCAGTAGACACTGAAATAGATTTTGG

>Sequence 1227

ACCCGATATGTATGTTGAATTAAGAGGATTTTTAAAAATGACCCTTAAGT  
CTTTGACATAACAGCCCCGTCACTTCTTGTCACAGTTTGTATGTGTTGT  
TAATGGAATGTCTATTTCTTTAAAGAGCAGAGAACTACAGTTACAGGGGA  
TACAGTGTGAGGGGTGACACATTGCTGGATTCTGAGCTCAGGCAAATCTG  
TCTGTGTCTATATTAATAGAGGTCTATCTTTTCTTAATACTGAATGCAAT  
GGACCATTCCAACCTAAGTTATCCTTGATATGCTGGGATTACAATAA

>Sequence 1228

GGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTAGAGACAGAGTCTCCCT  
GTGTTGCCAGGCTGGTCTCAAACCTACGCTTGAGCAATCTTCCCCCT  
TGGCCTCCCAAAGTGCTGGGATTACAAGCATGAGTCACCATGCCAGCCA  
ATAATGATTTCTTGATTGAAGGAATGAATGAATTAAGGTTTCATCTTTG  
GACACAAAGGCAGACAAAAGTTTGACAAAAGGCATTTTGAAACTAGGAC  
CTTTATTATAATATTAGTCTAAACAGGGGGACCCATGAATAAGCATGG

>Sequence 1229

CACAGAAAAAAATCTACACCAGGTAACACTGGAGGATGCAGGGCTACAT  
TTGCCACTGAAGAAACATTGTTCTTGCATCTGAATTCCAGTGCTTTCC  
AAATAGATGCGTAGATGATGAAAAATGGAGCAGCTTCTTTTATTTCTTCT  
TCTTTCCTCCTGAATTCTAGTACTTTGTGAAGTGTGAGGTGTCCTTC  
CTAAGTCACAATTCACACTGATGCATACACTATAGTGAAACACTGGCTTT  
AAGAAAAGTGATTAACAGAAAACCGGCAATTGTTATTTATTTAAAT

>Sequence 1230

CCCTTTGAGCGGCCGCCGGGCAGGTACAGGTTCTAAAACGAAAGTATTT  
GGGTAGTCCACTTAGTGATATTATGTGGATGTGTAGACAATAATATTAGT  
TCCTAGATTAAGGCTATATGTATAGAAGAACAAAGATTAGCTGCAAAAA  
GGAGATTGTTTGAAAGCGAAAAACAGTGGGTATGGCAATACTGAAGTGGAA  
ACTTCACAGATGGTACAGGTGGAAGGGCGCCATGAGACTGAAACACCATG  
TAGTCAGTATAGAGGTGGAAGTGGAGGGGGGTATAGTGAGTTACAAA

>Sequence 1231

CCCTTTGAGCGGCCGCCGGGCAGGTACTCCATAATATAATCTTTTAAAT  
GGGCAACTTCTAAATATTGATACAACCATTAATAATAATGCTGATAGGGT  
CAAAAGACAATTGTTGAAGCACTGAATTCAGTAACCTGGGTCATGGTCCA  
ATTTTGCTCACTACTTCATATCTTTTATGTAGATTATTCCTATAAACATG  
TTCCCTAAATTCCACATCAGTTTGTAAGTCAATGGATTAAATTATTCAA  
ATGTAGCTATTTAACGGTCAGTAACAATGCCTAGAAACCTATTTATTCAT  
CTGTAATATTAAGGCTGAATTTGATGATCTTGAAAAATCCTTTCCAGA

Table 2

TTTACAACCTTTTATTCTAACAGTAAAAGAAATACAGAAAAAGTGTCACA  
AACTTGGATGGGAAGCTAATAATTGTAAGTCACACCGAGAGATTAAGCTA  
ACAAATTTCAATAACAGCAGTCATATGGGGAAATCCCCAGAACTATTTAG  
AAACCAATCTTTTGAATGCTAAGAACTACNAGTAGAGCCCATTTACTTAG  
AATTTTTTTCATAGAAAAATTAGGGCCTTCAAAGGTTATGCCCTTTCTTT  
ATTGGAATGGATAAAAGATGCTTGGAAGCTAAATTTTGGTTTGGCGAAAA  
AATCTGAAAAAACTGCCCTGATAAGGATAATGGGAAAAAATGGCAATCC  
TTTAAAGGCTTAGAACCAAACTGGGCTTTGGACCTAAAGTTT

>Sequence 1232

CTTACGTGGTCGCGGCCCGAGTTCATTTAAAAGGGGGATGTTATACTTTA  
AAAAGGTTTAAGAAATAAATTTAAAAAGCCTTGGGAATGGTTACGGGAA  
GGGTCCGCTTACTGGGCTTTTGGCCAGGGACTTAATTTTAAAACTAAAA

>Sequence 1233

CCCTTTGAGCGGCCCGCCCGGGCAGGTACTCCATAATATAATCTTTTAAAT  
GGGCAACTTCTAAATATTGATGCAACCATTAATAATAATGCTTATAGGGT  
AAAAGAAAAATTTTTGAAGCACTGAATTCAGTAACCCCTGGGTTCATGGGCCA  
ATTTTGCTCACTACTTCATATGTTTTATGTAGATTATTCCTATAAACATG  
TCCCTAAATTCACATTCATTTGTAAAGACAATGGATTAAATTATTCAA  
ATGTGGCTATTTAACGGCCAGTAACAATGCCTAGAAACCTATT

>Sequence 1234

GGTACAGTTTTTGGCGATTGCTGAGAGTGCCCCATGAGGGGGGAGAAAAA  
TAAATTTCTATTTTTATTNGGATCTAGGCTAATTCTATTCTCACTTGC  
CCAATTAGTATTTCCCATTTGGCACCGGGTTAATCCACAATAAATGGTCTT  
TTATTATGGTTCCTGCAATCAATTGAAACCCCTTTGGGGTTTTGTTCCCC  
AAACATTTTATTTGTTAAATCCATAAAAACCATTTTCTGGTTAAAAAAAT  
AAAGTCTTTTTCTTTGGTAATAAAAAGCACAAATCCTTTTGTAGGCAACC  
ATGGAGANTTCAATAAACCTTTTCTTCCAGGGAGACAAAAAGAAAGTAC  
CCCTATGTAAAGGATGGGGATATTTTGGCCTTTTGGGTCCGAAAAAAGGG  
TTTACCCCTTGCCCTGGGGGCCGGGCCACTGCTTCCGGAAAAAAGTGTG  
CCGAAAATTTTCCCAAGCCAACCAACTTTGTGGCCGGGTCCCGGTTTT  
AACTTTAAG

>Sequence 1235

CCCTTCGGCCCGCCCGGGCAGGTACTCTGTAAGTCTGGAAGAACAGGTAC  
ATTTATTCAGACTTCTCCCCACAATTTTAAATCAAGCACCTCCAGTAA  
CAAGTTATTTAATTAGATCGATTTTAAAGTTGACAACAGATGTATCAGATG  
AGGAAAAAATTGAGCATGTGTGGTGTGATTATATAATAGAATTGGTTTCT  
ATAAACCATTTATAGTATTCAACTTTTATAGTATTACTTTTTTCAGATGTA  
TGGATATATAGACTATTATTTACTAACTGAGGCTCTGCGAAGTGTAGTGT  
ATT

>Sequence 1236

GGTACTCGGATCTATGATAGAGTAGAATAAAACCTCTTTCGTCTACAAGC  
ACAACCTATTCAAAATTGTGTGGCAACTCACACTAGCGATCATACCTGCT  
TATATTCTCCTAGTTAGTCCCTGGGGGATTATACCTTTTAATTCTTTCA

>Sequence 1237

GGTACTTCTGACTAAACTGGAATTATGAGTGAGGAAGAGAGATTACTAAA  
TAAATGACTGGGGCAAGCAAAATTGATGAGGAAATTACAACTGTTTGAC  
AAACTTTTAAAGAGCTACTTTGAAATAACAGAAGTTCTTGATTAAATATTG  
CACAATAATGGCGTAGAAAAAGTATGGTTTTAAACTGGGACCCTTATTTAT  
GCACTTTTTAAAAAATTAAATTTCTCAGTATACTCCATTAAAAATACCATTG  
TTTGTTAAAAAAAATTTTCATAGATATTACCAAGAAATATGGAAATTAAT  
AAAAAATTGTATACTTCCCTTTCTCAATTATTAGATATTTATATGAAT  
TATTATTTAATTATATACTAATATATTTTTATCTCTGTCCCCCAGAGGG  
CTGGGTCCGTTTTTTTTAAAAATGGTGGCAAG

>Sequence 1238

ACAAAGCTAGAAGCAGCCTGGTCCAGATGGCTATACAAACCCGAAACTGT  
CTACACCCAGACTTTTATTCTTCTACAACCAAAATTCCTCAAACACACAATC

Table 2

TGAACAGTAGCAGTGAAAGGGAGTTTAAAGGTGGGGGTGAAGGAGAAAGGA  
GTAATATGGTTTTTTAGTAATATAGTAATTTACATTTTCAAAAATCTTCA  
GTGTTTCACTATCTTAAATGAATATTTATTCTGGTGGGCCTCCCATTTCT  
CTTCTCCTGTAAAAAAATGACTGTTATTAACCTCAATCTCATGTGGATT  
TGGGTTTACTCACCTCAGATTGGGTAGAACATCTGTCTTCAAAGAAAAA  
CGAGTGACATTCTTTGCAAATCCCCTAAAGACCCCGTAGGACAAGTATA  
TGAAACATTTAATAAAATCACTTCAGGCCCACTGCTACTTTGCACTGGG  
AATTAATTGTCATACTATTATGGCCCAAGTTGGGCTGACACTTGATTCT  
CTCTGGAAATGGGACTAAAAATTAACCTAAACCAGGAAAAACAAGGACAT  
TTGTTTTACCTACAACCAGATGGCCTTAACTATTCAAAATTTTTTTTCCA  
CTAAAAAATTGCCACAAAACCACTTATTCTTTAAACAAAAACTTTCCCTT  
TTAAAGCTTTAACTATTTTTTAAATTCCTTTAAGGGCAGATGGTTGTTT  
TAGAAAAAAATTAGAATTGCACT

>Sequence 1239

CCCTTTGGCCGCCCCGGGCAGGTACGCGGGGCGGTATGTGGGGCCAGAGCA  
TCCGGAGGAACACAACCTCTGTGGTCTGTAGGAGCCACTATGAGGAGGG  
CCCTGGGAAGAATTTGCCATTTTCAGTGGAACCAAGTGGTCGTTACTAG  
CTAAGATGTGTTTGTACC

>Sequence 1240

GGTACGCGGGCTACCAAACCTGCATTAAAAATTTGCGTTGGGGCGACCTC  
GGAGCAGAACCCAACCTCCGAGCAGTACCATGCTATATTGGTCACTGTAG  
CTCTGTAACATAGTTTGAAGTTGGGTAATGTGATTCTCTAGCTTTGTTA  
GCTCTGTGTTTTCACTTAGTATTACTTTAACTATTAGGGCTCTTTTTTG  
GTTCATATAAATTGTAAATAAAATTTTCCAGTTCTGTGAAGAATCTCA  
TCGGTAGTTTGATAGGAATAACATTGAATCTGT

>Sequence 1241

CCCTTTGAGCGGCCCGCCCGGGCAGGTGGATCACTTGAGGAGTTACAGACC  
AGACTGGTCAACATGGCGAAGCCCCATCTCTACTAAAAATACAAAAATTA  
GCTGGGCGTGGTGGGCGTGTGCCCCCTAATAATCCCAAGTTACTTTGGGA  
AAACTTGAGGCCAGGAAAAAATTCGGCTTGAAACCCCGCGTAGGGTGGGAG  
GTTTGCAAGTTGAGTTCAAAGAATTGGCACCAAGTGGCACCTCTCAAGCC  
TGGGGCCAAAGAAGTGAAGACCTTCCAATCTTCCATATAAATAAATA  
AAATAATAAAAAATAAGAGGTAACCTTCGGGCCCGGCGTACCCACCGCCTT  
AAAGAGGGCCGAAATTTCTCAGGCAACAACCTTGCCCGGGGCGCTTTAA  
CTTAGGTTGGGAATTCCCGAAGACCTTCGGGTTAACCCTAAAGCCTTTGG  
GCGGTTAAATTCAATTGGG

>Sequence 1242

CCCTTTGAGCGGCCCGCCCGGGCAGGTGGATCACTTGAGGAGTTACAGACC  
AGACTGGTCAACATGGCGAAGCCCCATCTGTACTAAAAATACAAAAATTA  
GCTGGGCGTGGTGGCGTGTGCCCCGTAGTAGTCCAGCTACTTGGGAGACT  
GAAGCAGGAGAATCGCTTGAACCCGCGAGGTGGAGGTTGCAGTGAGTCAA  
GATTGCACCACTGCACTCCAGCCTGGGCAAGAGTGAGACTCCATCTCAAA  
AAAAAAAAAAAAAAAAAAGGT

>Sequence 1243

GGTACAGAATTCAGTTTCTGGGGAAAGTGAAGCATGAAGGGAATCATAGG  
AAAAATTTGATTTTTGTGTATGGTGTAAGAAAAGAGTCCGATTTCAATCT  
TTTTGCACATGGATTATCCAGCTTTTTTCCAACACCCATGTTATTGGAAA  
GAGAACTTACCTTTTTTCCCTTTTTGTGGGATTCTTTGGTCATAACCTT  
GTTTGGAAGGTGCCCTTTTCCTTTTTGCCTTTCAACACTCAATTGGTCT  
TCACAATAACAAAGGTTGACCCCTTGAGTTTCATCTTCCAATCCTTTCTC  
TTGAATTCAAAAACCTGTTCTCAGTTCTGTTCTTAAAAATTTCCCCCGGGA  
GTGGAACCGTTTTGGGTTCAACCTTGACTTGCCTTGAAACTCCCAAGAA  
GGAAAAGCCTGGTTTTTGGTGGCCTTGGTGGCCCCAGACCCCTTTCCCTT  
TCCCTTTTTTGTCCC

>Sequence 1244

GGTACAAATAAAGTCTTCCAAGGGTTCAGAATAGAAAATGATCTCTTCCA

Table 2

GCTTGGGGACATTTGGGAAATTGGGATTCCTTTGGGGAAATGTACGTAAT  
CAGTATATTCTGGGAAAAACATAGTAGAGAATGAATAAAATAATTGCATCG  
AATTGGGAATATGTTGTCCATTCTCCCTGTAACATAATGCTATCAAGATAA  
AGTAGAAAATACCACATTTTCAGAAACAGCTGGAGTAGACAGGTCTTCATAG  
GCTAGCTTGGAAACCTAATAGCTATTAATAATGAAATTGTAATTATACTC  
TGGATTCTAAACAATGAACACACAGTGATCTTTTTGACTTGCTGCTTGT  
TATAAGTTGGGGATGGTCTGAATTCATTGTTGA

>Sequence 1245

GGTACAGATGTGACCTTTCTTATAGTCAGTCAATGCTGGGAAGTAACAGG  
CAGATGTGACTTCACTTGAGCAATTGGAGAAAGCAAAAAAGTTTGCCTTA  
GTCGTACCTTAGGTTTTAGATGGACAGTACTTTGCATTTTTGCTTCCCCA  
AATTCTAGGTAGTTGTTTCTTTGGTTGAAGAGGATGGTAACCGGTACATC  
CTTCTGGGTGACCTAGGGCAAACTTAGAATGTATAGGTAATTCCTTTGT  
AGGATAGCCTGGATTGGTTCAAGGGAGATGGGATCACCAGGGGTTCACA  
GGTGAAAACCTCCAACCTTTTAAATTATACTTGGATGTTCTTGGTGGGAT  
GGTTGAAAAGGTGCCAATTTTGGAGATCTTTTCAAATTGAACCATTGT  
TAAGAGGGGGGGACAAAAATGTTTCTTCTTTGGCCTTCCCAACCCATTCA  
ATG

>Sequence 1246

GGTACTTTTTTTTTTTTTTTTTTGTCTAATTACTACCTTTTATTCTAA  
TGTGAACCATGGGCCCTGAAAGACTGATAACAAGCTTTGGCATGAAGCAG  
AGGGGGAACCTAGGGGTTCCGGCAGAAAAAGGATTTAATGGGGTGGGAAAA  
ACATTTGGGCTTCTTTCCTTTGGGGGAGATGAATGCCTGGAGGAAAAATGG  
GGAAGTAGAAGTTGGTCTTCAAACCCTGCCAAGGTAAAAATTAGGCCTAA  
GAAAAAAGGCTCAAAGGGGCCAAATAGGCTTGGGATAGGGGGTAGAAGGG  
ACCAGGTTCTAGCATTTGGTTTCAGACCCCTGGGGGTTTCTTGGGATTGTA  
ATGGGGTTTATTTCCTTCTTATTCCTTGGTGGCGCATTTCCCAATT  
TTTCGGTATCAATTGAACCCCTTAAGTATCTTATGGGGAGACC

>Sequence 1247

CCCTTGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTT  
TTTAGTGAAAAACTGTAATCTTTATTTGAAACAATGCATTTCAAAGA  
AATAAAAACCACTCAGACTTCTTAGAACATTATAAAGTCAAAAAACGTT  
GTCAAAAAATTTGGCAATTAGTAGAATAAGTATAAAAGGGGTAAATCAGA  
TACCAGCCAGAATTAAGGGGTATAACCTCCAGTTCTTCAGACAGAAAAAG  
AGGGACATAAAATTTTTCATTTTTTAAAAAACTTCTTTGGAGATATTATC  
CTTAAATTTTGGACACCTATTCAAAGATAAAATAATTTTTTATTTTCTC  
CAATGGTGGAATTATTGGACCAAAATTAAATCCCAAAGGCTTTGGCTTG  
TATCCCAAACCTAGACCCTGGCAAATGGGGGGCAAGGGTTCAACCCCCAC  
CAGTCAACAAAGT

>Sequence 1248

ACTATCCCTATGAGGCATAATTATAACAAGCTCCATCTGCCTACGACAAA  
CAGACCTAAATCGCTCATTCGATACTCTTCAATCAGCCACATAGGCCCC  
TCGTAGTAACAGTCCATTTCTCAATCCAAACCCCTGAAGCTTCAACCC  
GGCGCAGTTCATATCTTCATAAATCCGCCACGGGGCTTTAACAATCCT  
TCATTACTTAATTCTGCCCTTAGCAAACTTCAAACCTTACGAAACCGCA  
CTTACCAGGTTCCGCAATCAATAAATTCCTTCTTCTCAAAGGGAACCTT  
TAAAAACCTTCTAACTCCCCAACTAAATAAGCCTTTTTTTGAATGGAAT  
TTCTTAGCCAAAGCCCTCGACTAAACCTCGGCCCTTTACCCCCCTC  
A

>Sequence 1249

GGTACTATATGTTGCTCTCTCAGTGGCAACAATGAAGTTTTTGCAATTCT  
AGAAGTTGGATTTTTTTTTTAAACAAAAGTCCCAAAACACCAAAAAATGTAA  
ACAAGATAAGAGATTAATATTGTAGTGGTGAATTTAATTAAAGTTATAT  
TTTGGGTAAATTTTAACAACTGAAGTCTTATGTTGAACTTATTTTTAA  
CAAACTGTGCAGTTAAATTTGTATACGTATTCACATACTGAAAGATGAA  
CCGTTAAAATAGCACTTAATTTGTGTTTCTTCAATATGCTTGATAATA

Table 2

ACTTTGGTGCAATTTAATATTACCCATGTTAAGGTTGA

>Sequence 1250

TGTAAGTGCCTACAACATAAACAGAACCTGGTAAATTAAGTATTGA  
AAAAATGCTATGGGGCAGAAGAAGAAATGCTTACGCTTCTGTGAAGAAGA  
GAACACAGCTATGTTACACGAGGTGAATAAGAACACAGCTGCAGCTGAAT  
AGAAGAAAAGGTATACGAATTGCTAAGGTGTGAACATTCCTATGACTGTT  
TCAGCCACTAGCAATGTCAAACAGTCTACTCTATAATAACGCCATAGTG  
ACATGACTTAAAGGTGGATCCTTCATGTGCTTTAAATCGTTAGCGCCCT  
CTCGCGGAATTCAGAGAAGGAAGCTTGCCAGGGATTTTCATATTCCTGGCT  
AACTTCTCATCTTATAGGAGTGAGGCCCGATAATCTTATATAAACGAGA  
TATCAAGTCAAACACTCCCTTTCCCGTTATTATTGAGAAGTTTAAATATA  
CACATGTCGCAATTATCTTGGGCAAATTCGTATTAACGCTTGCCTTTCTG  
TCAATTAAGAGAAATATGGAGTGTCTCCATTGGTAAATGGAAGATAAGCT  
CTATTATCAGCTTTCAATTGGCTGGAAAACATTTCAACGGTAGTATCTGG  
TACCCTGGCCCGGGGGCGGTCTGAGAGGCTGGATATCCTGCCCCATCTGGG  
CGGGTCCGGTACCTATGTGGAATCTCTGGCTATGGTCGCAAATGCTTGGG  
ATGTCATTAAATGGGCCCAAATCTTGGTTTCTTGTGTAAATACGCGTGA  
TATCTCGTATAACTAGTCGCCCGCCAAATTTGCGAACTCCTGCAGCCAT  
TAGAGGGTATCCGCTAGGGGTGCCTATATTGATGAAGCTGCCTTCCATTA  
ATATGCGCTGCGGCTGACTTGGCTCGCTTTTCAGTTTCGAAACTCTGGATT  
GCCCGTATTCATTAAAGAATCGGGCATACGCGCGGTGGAGGGCTGTTCCG  
GATTG

>Sequence 1251

ACGCGGGCAACAGTTAAATCAACAAAACCTGCTCGCCAGAACACTACGAGC  
CACAGCTTAAAACTCAAAGGACCTGGCGGTGCTTCATATCCCTCTAGAGG  
AGCCTGTTCTGTAATCAATAAACCCCGATCAACCTCACCACCTCTTGCTC  
AGCCTATATACCGCCATCTTCAGCAAACCTGATGAAGGCTACAAAGTAA  
GCGCAAGTACC

>Sequence 1252

ACCTATTATTATTTCAAATTTAAAACTTCTTCTTTTTTAAAGAGATAGGG  
TATCACTATGTTGGCCAGGCTGATCTTGAACCTTTGGCCTCAGATGATCC  
TCCTGGGTTCAAGTGATTCTTCTGCCTCAGCCTCCCTCTTATTTGCTTTA  
CAAGTCTGCTTCAGGGTTACCTTCCCTGACCACTGCTGCCTCCCTCCCA  
GCATTTGCCAGGGACTGTCATTGCCTTAGTTTATTTTTTCTGTTTTGTTT  
TTTTTTTGTGTTTTTTGTTTTTTTTTGTAGACAGCGTCTTAGTCTGTGCC  
AAGGCTGGAGTGCAGTGGCGCAATCAAAGCTTGCTGCAGC

>Sequence 1253

GGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTACTTTAGTAGAGATGG  
GGTTTTACCATGTTGGCCAGGCTGGTCTTGAACTCCTGACCTCAGGTGA  
TCCACACGCTTCAGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCACC  
ACGCCCAGCCTAAATATTTCTTTATAGCAATGCAAGGATGGCCTAACACA  
CTGCCTAAATCAAAATTGCTATTCACTTCAAGGGTATTCAATTACCTGACT  
AGCTTTTTTGGGTGCATTTGAACATAATGTAAATTTTATGGCTGATCAAA  
TGTCATTACTATGAAGATACTCCCTATGAGCTCACAGAGTCAGGACAT

>Sequence 1254

ACAGTCTTTTATCTTGGGATAAAATGGCTAGATGAGTATGGACAGGGAGG  
CAGGGCAGATACAGTCCCTTGCTTCTGGTTTTAGAGTTCTTCTGAACCACA  
ATCAAATCTCCAAACACCCACCTTTGTCTTCTACCACAATAGGGGTCAG  
ATCTATTGCTGACTTTTCTCCACCTTCTCTACATCAGCAGCACCTAGGG  
GAAGAAATGTTATTGAGACTATACCTAAAGGAAGAACATTCTCCTCTGTT  
GCACACTATTATCCAATTGGATAGACCCACATCTAAATGTCTGCAATTAC  
AGTAATGTCAGCTGGGCATGGTGGCTCATGCCTGTAATCCCAGCATCTTG  
GGA

>Sequence 1255

GGTACTTTTTTTTTTTTTTTTTTTTTTTTTTCTTTTAAATTTTTTTTTTTT  
TTTGAATAACAAAAAATTTTTTACTAAAACATAAAATTTCCAGAGGTTT

Tabl 2

CCAGACAAGCCATACAAAAGGGGCACAAGCTTTTTTGGAGGGGGGAATCT  
ACACTTGACAGCAATGTTATTAGGGAGGGCTGGGATGTTTGGTTAATGTT  
CCCATTTAGGGTCCAACAATAAAGCCTGTTTACATTACAGTGTCCAAATGA  
AGTTTGACTTGGCTTGAGCATTTTCTGAAGACCTGGGTGGGTGGTTTTA  
ACCCATGCAATTTGGATCCCCAAAAAAGGGGAAAGGGGCCCCCTGGTT  
CCTGGCG

>Sequence 1256

GGTACTGGTTTTTTTTTTTTTTTTTTTTTTTTTTTATAGGTTTCCTTTTTAAT  
GAGCTCACCCTTTAAACAAAAAAGCAGGGTTGATGTATTTAAAAAAG  
GAAGTGGAAATAAAAAAATCTCAAAGCTATTTGAGTTCTCGTCTGTCCCT  
AGCAGTCTTTCTCAGCTCACTTGGCTCTCTAGATCCACTGTGGTTGGCA  
GTATGACCAGAATCATGGAATTTGCTAGAACTGTGGAAGCTTTTACTCCT  
GCAGTAAGCACAGATCGCACTGCCTCAATAACTTGGTATTGAGCACGTAT  
TTTGCAAAAGCTACTTTTCCTAGTTTTTAGTATTACTTTCATGTTTTAAA  
AATG

>Sequence 1257

GGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGGTTTCAAACCTCAGT  
TTGAAAATGAGAGGAAAAACAAAATAAAATGATTTACATAATCAAAGGATT  
AACTGATACAGACTTTTATTCTAAATGCTCACAAGCACAGAAACCAACAA  
GAAATCAGATCTTGAACGAATTTATAATGATTCTTCCAGGAAGCACCGCG  
GCAGCCACATAAGGGCGCTGTTACACCTGGCTGTGTCTGCCAAGTTAGTC  
CTCAAAGAGAAAAAAGGAGGAAAAAGACAAAAAACAACCACCA  
AACCCAGTGTGCTTAAACACAGATCACCATCAGAGGTTTATTTACAGC  
AAGG

>Sequence 1258

GGTACCTTGCTGGTTAATATAACTAAGATTTTGCCTTTATTGGGTTAGGT  
ATCTTTTTTTTATTTTAGCACCTGATAGCTGTCTTCTACTGAGTAAAGAA  
TTATAACTTTTAGATGTCACAGAAAATTAGAGTATTTATTGTCAAAAAA  
AAAAAAAAAAAAAGTT

>Sequence 1259

ACTTCAACAATTCCAAAAGTTTTTGAAGTAAAGCAAACCTCACTAATG  
ATTATGAACATAACCAACAGGCTGTTTGGAGAAAAAACATACCTC  
TTCCTTCAAGTAAGTTTGCCATGCCTACCATATCTGTGAGTGGTATTCTG  
GAATGGCCAAATGGCCCTGGTAGGACTATGGGTCCTGAAGTCGTGCTGCC  
TGGCTCTGGCCACATCCCTGTGGTGCTTTTCCATCCTGATCTACAGATAT  
TCAGAACTGCAGGGAGTTCTTTTAGTCCTGGCAATCTGAACCTGATTTT  
TGCCATATCCCAGAATAGCTGCATAAAAAATGTGCAGCAGGAG

>Sequence 1260

ACTGGTGGGATTGTTAGACCATCCCCAAAAGGAAGTGCACCTTGGAGTCT  
GTGGAGCTCTCAAGAATATCTCTTTTGGACGTGACCAGGATAACAAGATT  
GCCGTAAAAAACTGTGATGGTGTGCCTGCCCTGTGCGATTGCTTCGAAA  
GGCTCGTGATATGGACCTTACTGAAGTTATTACCGGTGAGTTCTAGGCCT  
AAGGAAAATTGCTAAGTCAGTGTACTCTCTAGTGATGTTGAGAACTAGA  
GGGATTTCAGACCTTTTACTTTTGATGAAAGGTTGTGAACCTGGTGGCTG  
TGGGTCAAATCCATCTCACAGATTTGTTTGGATCACACAGCA

>Sequence 1261

GGTACTTTTTTTTTTTTTTTTTTTTTTTTCTTTTGCCTCCTCTGACTAT  
ATTTTCAAATAGTCTGTCTTCAAGGTCAGTAATTCCTTCTCTGCATGAT  
CAACTCTGCTATTAAAGGACTCTGATGCATTCTTCAGTATGTGAACTGCT  
TTTTTCAGCTCCAGAATTTCTGCTTCATTCTTTTAAATTCAATCTCTGTT  
AAATGTATCTGGTAAAAATCTGAATTCCTTCTCTTTGTTATCTTGAAATT  
CTCTGAGTTTCCCTCACTATTTTGAATTCCTGTCTGAAAGGTCACAATCTTG  
TTTCTTAAGGATTGGGCCCTGGTAACTTATTTAAATCATTGTTGAGGTA  
ATG

>Sequence 1262

GGTACACTCCATCAAGCCTGGTTCCTAGGATGCTGGACTTCTAGCTTAGT

Table 2

GAGAATGCAGTATACTTTTTGAAAACCTTCGTGCAGGAATCCCTCAAATGC  
TGTAAGTAGGAATGGGTCAGTGAAGTTCAAACGACTTTTCCTTGAGGGAG  
TATTTTAATCGGACAAGGGAACCTTTTTCTTTTGGGCAATGGCCAACAG  
GACTGAGAAGCCAGAGAGCTTGACCTGAGCCATCTCAGCCGTGAGAGTA  
ACAGTCCTAGGAAAAATAGATGGGGGCTGGGGGTAAGGAAATGTGCTGAAG  
ACAGAGCTATTCTGGA

>Sequence 1263

GGTACTCTTTTTTTTTTTTTTTTTTTTTAGGGGTTTTCTTTGTAGAG  
ACAGGGTCTCACTGTATTGCGCCAGGCTGGTCTTGAAGTCAATGGGCTCAA  
GTGATCCTCCTGCCTTGGGCTCATGAAGTGCTGGGATTACAGGTGTGAGT  
CACCATGACTGACCTATATTTAATTTTTTAAAGATTAGACTGGTGTAGC  
TGTAATAGTTTGAATACCTCTCTGATAGGTGCTAGCTTATCGTTACTC  
TTAGTGCTTCTTGCATTTCATAGTCAAACTTGATACTTTTTGTGAACT  
TTGAAAGCATGC

>Sequence 1264

ACTTTGTGTTAAGAGAAATTCCTAAACTGGATATATGTGGCAGGCTGAA  
AGCACTGTGAGTTGAAGTCAAGGGGAGAGGTCCAGGCGCAGTGGCTCATG  
CCTGTAATCCCAGCGCTTTGGGAGGCCAGGCCGAGGGTTGCTTGAGGC  
CAGAAGTTTGAGACCAACTTGGGCAACATAGCAAGACCTCGTCTCTACAA  
AAGATCTAAATTAATATTAATAATAAAATAAGGTTCTTGCCCGGGACC  
ACGCTAAGGGCG

>Sequence 1265

ACCTTATTGTTAAAGTGAGTCAGATAAATCTTCAATTCCTGGCTATTTGG  
GCAATTGAATCATCATGGACTGTATAATGCAATCAGATTATTTTGTCTTCT  
AGACATCCTTGAATTACACCAAGAACATGAAATTTAGTTGTGGTTAAAT  
TATTTATTTATTTTCATGCATTCATTTTATTTCCCTTAAGGTCTGGATGAG  
ACTTCTTTGGGGAGCCTCTAAAAAAATTTTTCACTGGGGGCCACGTGGGT  
CATTAGAAGCCAGAGCTCTCCTCCAGGCTCCTTCCAGTGCCTAAAGGGG  
CTATAGGAAACATAGATCCAGCCAGGGGCTT

>Sequence 1266

CCCTTAGCGGCCCGCCGGGCAGGTAAGTCAACACTGATTTGAGAAGAAAAG  
TGTGATTTGCTTTACCTGTGATTTTGAGACCTATATAGTGAAGGTTTGTG  
CCACTTTTTAGTTTCTCTCAAACATGCAGAAGTAATGAGGTTTGACAGAGA  
CATGAGACTATAAGATGTCTGTCAATTGCTGCCAACCATGGAAAAGATGTT  
AAGATGTCCAGCTGCCCATAAATCATATTTTCAAAGTGTGAGACACGAA  
GAATATCTTTCTCTTATTTGGAATATGCTGAAGATAGGAATAAAGAAAA  
GGATTACAGTAAAAATGGAGACGAGAGATACAGTAAAGCAGAAATGTATAT  
GCC

>Sequence 1267

GGTACTTTTTTTTTTTTTTTTTTTTTGGGTTCTGTAAACTTTTATTTTA  
CACTTATGGGCCACTGCCAACTCAGGTGCCTTGGCTTCTTGACTCATTTC  
TTACAAAGGTTACTTTGTTTGAAGATGGTATGTAAAGGTTAGATAATT  
TGGAAAATATTTCTTGTCTAGGTAATACCCACAGTTTATCTTTACCCAG  
ATCCTATAAAATTAATAAATGGCAACGTTTGACAGCCCTTTTCAGAAAAA  
TCTTATGGACCTTTTCTTGGAAATTTTAATAAAAAATGGCAATTTTTTTT  
TTTCAATTATTGAAAAAGAAAACCAAAAAGCCATTTTGGTAAAAAAA  
TAGGACCATATTTGGTTCTTTAAACAACCAAAAAATGGGGTTGTTGAAAC  
CCCTATTTGGGCCTTTTATTATTTTATTAAGGGGCCATTATTATTG

>Sequence 1268

ACGCGGGGGGCTTTGCAGATGTGATTAAGCAAAGGACCCAGATGGGGAG  
ATTATTTGAATTACCTAGGTGGACTCCACGTCATCACAAGGGTCAGAAT  
CCAAAGAGATGTGAGAATGAAAAGCACAAGTGAGAGCAGTGGGATAGCCA  
AATTTTAAGAGGGTTGTGAGCCAGAGAATATAGGCCGCTCTAGAAGCTG  
CAGAAGGCCCGGGTGGACAGAGTCTCCCTGCGAACCTCCAGAAGCAGCAC  
AACCCTGCCCCTCAGGTAGACTCTCGATCTCCGGGCTGTAGAATAATA  
CATCTGTGCTATTTTAAGCCACTGTTTGTGATTGTCTGTACAGAAGTTA



Table 2

TAGAA

&gt;Sequence 1269

GGTACATTTAAAAGGTGATGCTAATACTTTAAAATGTTTAAGATATAGAT  
TTAAAAGCATTGTAAATTGTATACTGCAATGTCGTCTAACATGGCATT  
GGAACAAGGACATAATGTTTAAACATTTAAAAGTTGCAAATTGTTAACACT  
TAACCATATGGATTAGTGTAAATGGCATACTGTTGACCCAAATTTTTTGTG  
TTAAAGTTTAAAAATTACCATAAAAACTTATTTAACAGCTGTACTTAACT  
GGGAATTTAATGGTCCTAATTATAGACAAAAATACTTTGGAATATCTTGG  
CATTTCCACAAACAATTTAACTTGGGCAGTTGCCTTTTTTTTAGCTTTT  
GGCTTTTTGGAGGTGGCCTTTTTGGATGTTGGTAATGGGCCTAATTTAAA  
TAAACGTTCCCGACTAGATTTTTTTGTCTTGTGGTTCTAACATA

&gt;Sequence 1270

GGTACTGCAAGCAACAGTTACTGCGACGTGAGCAGCAACGAAGTATCCTC  
TCCTGAAATTATTAGGCAGCACTTGGGTCAACCACTCCGCCGTGACCCAT  
ACCAAAGCCGTCGCCTTGGGCACCGAATAAACACAGACGACTATCCAGCG  
ACCAAGATCAGAGCCAGACACCGGAAACCCCTGCCACACCACTAAGTTTG  
TTGCACAGGAGACTTCAGTGGAACAGGGCCTCCAATTCCCTCAACTGCAT  
TTTAAACCAGCTCACACCAAAGGGACGGGATTTAACCGGTAATTAGGTAA  
CAACTACAACCCATTAGTTACCTTGCCCCGGGCGGTGCGCTTAGGGGC  
CGATATTTCCAGCACCACTTGGTCGGGCCGGTTACTAA

&gt;Sequence 1271

GGTACAATTTTTAGTCAAGGGATTGTTTGATACTCTTTAAGTTCACTGCC  
AGGCCTACCACTTATCTCTGTGTCAGGAGGAGAGTTCTGTAAATGAGAGG  
TTTTTAAGACGTCCTTTGTTCTGGGATGAATCATAGGGAATGACTGCCTT  
GGAGCTCAGGATATTTAACTGAGTGGTGTCAAATATTTCCAGGATCAAAT  
CGACAATGCCATTGTGTTCTTTGCCCGGGCTGGCCGCTCCGAAAGGGCCG  
AATTTCCAGCACACTTGGCGGGCCGTTACCTAGTGGATTCCCAAGCTTCT  
GGTTCCAAATTTTGGCGTTAATTCATGGTCAATAGCCTGTTTCTCTG  
TGTGAAAATTGTTTATCCCGCTCACC

&gt;Sequence 1272

GGTACTCAATGTACATTAACATAGGAAAGGTTATATATACACTATACAC  
TTCAGCCTTGAAATGTGGACCCAAAAAACATTCTATTTTTTCAGTAATCCA  
TTGAATTCGGTGAGGGTCCCAACCCCTCAAATCCTAATTTATCACAGCAC  
AAGCCCTTCCTTGGCTGCCAAGCGCTGGCGGAGAACTTTGTCTTGCTGCA  
GCTCTTCATGAATTGGATGCCAGAGTTTCGTGATGATCCTTTCAATGTTA  
ATAGCATAGACTTGCATGTGTAGGGATGACTTCCCTTTGCACCTGCTAAG  
GTTGATAAGAATCGGACCTGCACTTGGCGGCCGCTCTAAAGGGCTAATTC  
TAGAACACTGGCTGTT

&gt;Sequence 1273

ACTTTTTTTTTTATTTTTTTTCTTTTCTTTTTTATTTTTTTTTTTT  
TTTTTTTTAATTTTTTTTTTAAAACAAACCCCTAAATCAAAAAACCCCC  
AAAAAAAAAAAAATAACCTTTTCCAAAAACCCCTTCCAAAAAACCC  
CCGGGAAAAAAAAACCCCAAAAGCCAAAAACCAAAACCCCGATTCCCCCT  
TTGCCCCCCCCCAAAACCCCCCCCGCAAAAAACAAACTTTTTTTTTT  
TCTAAAACCCCGGCCCAAAAAAACCCCTTTTAAAAACAAAAAT  
TTACCCAAAACCCCAATAACCCCTTCTCAAATCCCAACAATTCAAAAA  
ACCCAAAC

&gt;Sequence 1274

GGTACTACAAACAACAGAAATTTATTGTCTCTCAGTTCTGGAGGCTAGAA  
GTCCAGAATAAGGTATTAGTAGGTTTGGTTCTTCTGAGGGCTGTGAAGC  
AGAATCTGTTCCATCCCTCTCTTCTGTCTTCATCTGTTCTATGTCTGTC  
TTTGTCAAATTTCCCTTTATATAAGGATAGCAATCATATTGGATTAGG  
CCCAGTCCTAATGACCAGATCTTAACATTTGCAAAGGCCCTATTCTCAC  
TAAGGTGCTATTTACAGGTATAAAGGGTGTAGACTTTAACATCTTTTGG  
GGAAGACACAGTTCAATCCGTAACAGATGGTTAGTCCTTCTCTCCTAA  
AT

Table 2

## &gt;Sequence 1275

CCCCTAACCGTGGTCCCCGGCCGAGGTCCATTTAAAAGGGGTTGCTTAAT  
CCTTTAAAAAGGTTTTAAATATTTGATTTAAAAAGCCCTTGAAAAATTGG  
TTTCCTGGAATGGGCCTTTTACAAGGGCATTTGACCAGGGACATTAATGG  
TAAAAACAATATAAAGTTGGCAAATTTGTTTTACACTTTAACATTATTTA  
TAAGTGAAATGGGTCAAACGTTGACCCAAATTTTTGTTTTTTAAAGGTT  
TAAAAAATATCCCAAAAAAACTTTTTTACCCGGGGGTCATAAACCTTGG  
GAATTTTTATTGTCCTTATATATGGACAAAAAAATCTTTTTGGTTACACT  
GGTATTTTCCACCCAAATAATTTTCTTTTTCGGTGGGGCACTTTTTTG  
TGTTTTTAGAATTTTATGAAGGATGTCTCTTTTTTAGTGAGTGACCAT  
ATTTCTTTTTTTAAAAAAAACCCCTTTCCTCTTATTTTGATTATATA  
TCTACTTGTTTGTTCAATTATATATAACAAACC

## &gt;Sequence 1276

ACTATAAAAGGTTGAGTAAAAACAGGAAAGCGTGCTATAAGTTCAAATCT  
GTTGTATTACCCTAAATTAGATTAAACCAACCTGAATTATAGTAGATTTC  
TCAATAGATGAGGAACCTGAAAAATACTATGTAAATATCTTCCAAATGCG  
TTTTTATACTTTTTTTATTTGTAATTTGGTCTATCTAAAATGTTTCGTTAG  
CTTAACCTTAATGGGCGTTATTGGATTATATGACTAACGTTTCCTCAGTA  
TTGTAATGCTTGAAATATTTGAAAGAAAAATGTTGTTTTTTAGTTGAAA  
CTGGTATATATAATTCAGTGCTTGGCAGGTTAGTATATTTTTATGCATT  
TT

## &gt;Sequence 1277

GGTACCAACACAATTGTTAATTTCTCACAGGCTCAAGGCATTCTGGGAA  
GCTATACAGGGGACAGGAAGCATTTTGGGGAGCCCTAAGGGGAGCCAGTTT  
GGAAGAGACAGCATTTCTCCTGGCTAGGACAGGTGGTGCCGGTGGCCGGGT  
TTAAGGTTCTCCAAGGGACCCTTTGCAGATGCCGGGGCCCTGTTTATTCT  
GAGCACGTGAAGATGAGTCACATAGCTTGGTGGGAATGGCACGTGTGGAG  
CAAAGCCCTACACACACAATGGTGGTGTTAACCAGCTTTATAGCGACTG  
TGTTTGAGGGGACTGGTACATGTCACTAGGGGAACATGGTATAGGTGCA  
CTGCTT

## &gt;Sequence 1278

GGTACTAAAACTAAAACTGAGCAGTTTAAAACATTCATTTAAAGGGATAT  
CTAATGTGTTTATTATTAACATAAAATGTTTTATGAAAAATGTAACCT  
TAGTTTTCCAAAACAAAAATGTTTAGGGCAAGAGTAACATTATTTTACAT  
TATTGCATCTCAGTGAAAAATAAATGGCAACAAATTCTTATATCTGCTT  
CTGCAGTTAATCTGTTTCTTTTGTGTTTGGTTGAAGTATATGAAGGAAATC  
TGTCCTCACACAGTTGTGTAGTGGAAGGGGGACTATTGTAACAGGCT  
GTGCACATAATTGTGGATGATTTTCTTTGATACAACAACAAACTTGGGG  
GATG

## &gt;Sequence 1279

ACAAATGTGATTTATCAATTAATTAATTTGAATTCCATGGAATGAAATAT  
AAGTCAACAAGTATGACAGTTTCGCTTTGTTTATTATGGAAGAATCATTA  
ATAATTTGATAATTAATGGTCCTGAATGGTTAGCCATGTTCTCCGCATT  
TAAATAAATAGTATAAACATAAATGAAAATATTAAAGTAATTTCAACGTG  
ATAGAGACCGCTTATTTTTAGTTCAGGTAGAGTTCCAACCTAATGGTAAT  
TAAGATTCCAGATCCGAAAGATGTCATGTGAATATTGCTCTGAAAAACCA  
AAATTAAGCTTTCTTAAAGATGCTGTGTAGGGCTGAGAGGTTTTTCACT  
TGTACCTCG

## &gt;Sequence 1280

GGTACTTTTTTTTTTTTTTTTTTTTTTTTGGCAAGGCAATTTAATAAGAT  
TTGAGCATAGATATTAACCTTAGCATGGACAGAGAACTTATTTCTTGGG  
GGACTGGCATAGTGAAAGAACAGAATCAGTATGACCTGAGAGAGCAGAAA  
AACTTTACAACAGCTAATACTACTTGCTACATTGCTGTTGCTTTAAGATT  
TGAGGGAGGAGGTACTAGAGCCTGCCTGAGATCCTTTTGAGGTCAGTTTT  
GAATTTAAGCCTTTTCTTTTTTTTTTCTTTTATTAATTTGAAATTTTAAAA  
TTATATTTTTTGGGTGTTCTAATTATCACTTAAAATTTCTAATTTTTTCTT

Table 2

TTTTACTTTATACTTTTT

&gt;Sequence 1281

ACCTCTGACTTTCTAACAAATTACCATAAAGGAAGAATATTTTTCGTCTA  
CTATTGTTAGAACACCTTAGAACCATCAAAAATATAATTACATGGCTAAT  
AGAAAAAAAAGAGCAGTTTTTAAATATGTTTTATGTAACCTATTTTCATT  
GTTTTTCATTTTGTGTGTGCCGAATAGTAGTTGTTCTAAGTAAATACAGG  
TCTCAATTTCACTATGAATAAAAAAAAAAAAAAAGGAAAAAAAAAAAAAGT  
ACC

&gt;Sequence 1282

GGTACTCTTTCTTATTTTCTTAATCAATACAGCTAAAGGTTTGCAATAT  
TGTTGATCTTTTAAAGAACTAAAAATTTGTTTTGTTGATTTCTTTATT  
TTTTTTTTCTGTTTTATTTATCACCCTCTTATTTTATGATTTCTTCC  
TTCTGGTAGCTTTGGGTTTAGTTTGTCTTAAGTTCCTTAGGTGTAAAGT  
TACGCTGTTGAAATGAGATCTTCTTATTTAATGTATGCATTTATAGCTCT  
AAATTTTCTTTAGCACTGTTTTCACTGCATGCTCTAAGTTTTGATAT

&gt;Sequence 1283

GGTACTTTTTTTTTTTTTTTTTTTTTTTTTCTTTTAATTA AAAAACCGG  
GACTTGGTGGGTTGCCAAGCTGGGCTTGAACCTCTGGGCTTAAACAATC  
ATACTGGTTTGGCCACCCAAAGCACTGGGATTACCGGGCTGAACCACCAC  
ACCCAGCTTTTAAACCCACAGTATTTTATAGGGCAATATTACACACCTGGC  
CCAAGGACTTACAGGGGGGGGAAAAGCTTGGACTTTTGGCTTTTTTTTTT  
TTTGGACCCAAGCACCTGGAACCTCCATTTCTTCTCAATTACGTTT  
AAAATC

&gt;Sequence 1284

GGTACTCACAAATAACAAGACAAATTTGACCTGTTCAATAAATAGAAATG  
AAGTGGCTAAAAATGTTTAAATGGAAGTGGAACACAGTCGTCTTCTTGT  
ACTTGGTCTCTACCTCAGATAATTCTTCTTTGAGCTTTTGAAGTCTCT  
CCTTTTTCACTTAGTTCTACATGTATTCTATGCAGTGAGGTTTCAGATGC  
AGACAATCTTGACTGAAGCTGTTGACAATCTAGGTCTTTTATGATGAAGG  
TTGCCTGAATATTTCTTTTACTCACAGATTCTTCATTATGTTTCTCT

&gt;Sequence 1285

CCCTTAGCTTGGTCGCGGCCGAGGTACTTTTAACTTTATTATTAACTA  
ACCCCTGTGGTGGTGTGGCTACATTCTTTGAGTTTAGAAAAAGGATATAA  
GAATTGCTCATATCTTCCCAAATTTGTGTAGTATAAAAAGAATGCTGTCT  
GGTTGTTTTTTGTAGAATATGGAAGTCCCTGCAGTAAGTAGGCAACATGC  
TACCCTTCTATTCAACACAGCACTAGAACAAGGCAAGTGGGACCTTTGTC  
GACACATGATTGATTTCTTAAAGTCATTGGCTCTGGAGAACTCTGAGACA  
CCTGCATCCACACCCACAGCTCAGGTTAGCTGCAAAAGTTACACATCTTC  
TCTAGGCCATACCCACGTAGCATCTTTCTCTAATGGT

&gt;Sequence 1286

ACACAGGATGTGATCAACAAAGTTCTATTTTACAGGAGTATGATCCTGTC  
GATACCTTGCCGTAGGTTATGTAACATGATTGGAGCGCAACCAGCTGTTT  
TCTTGACAGATCGAGAGTGAGGGGTATTTTGTGACATTACACAGCATCA  
GGAGCCTGGTGCCTCATCAGGTGTAAGTTCTTATAACCACTCTTGGCAAA  
TTTATTAAAGACAGGAACACAGTCAATCTGTAACCTCATAGTAGCTCTACG  
TTTACTTGAATTCCACAATCCCTAACCCATCTGTCCCTGGCAGAAAGAAG  
GAAAGATGACATGCATGGACAGTGAACAGAAAAGGGATGAAAGCCAGGATT  
CCTGGGATGAACAGACAGTGGCAATTAGGATGTGAAGACAGGTCACAACC  
TATTACTATGTCTAAAAACGACCAGAGCAGAGAGCCAGAAAGAATAAGCC  
TGAAGTCACCTCCACTCAAAAGCAGCCAAACTCCCTCAAAGGAGTAACCT  
TAAAAACCTGGATCTAAACCTGAAGGGGCTAAAAAGTGTCTGTTTCTGAG  
TTTTCTTTCTTAAGCTCATGAAGCAGATGAACCTACATTTTTATTGCCA  
TTTCATATCAAAATGTGGGTGGTATAACCTTAGGATTTCAACAGACTTTTG  
AAGTGTGGACTAAATATTGTCCTTCGCCGCGACACGCTAAGGCGAATTCA  
ACAACCTTGGCGCGGTACTGTGGACCGAGCTCGTACCA

&gt;Sequence 1287

Table 2

GGTACATTCCAGTTCTTTATCTGAATACAAGCGTTTTGCTTTTATTTCCA  
GTTTCTTGGACCAGAACAAATAAAATACATAAGACATCGTTTCTATATGGT  
CATATACTATATAGAATAAAGAATTGTTATGTAAATTATTAATGAGTAT  
ACAGACCTTTACATAAAAACTAAGGTACTTTTTTTTTTTTTTTTTGTTTT  
TTT  
GATTTTGTTTTTTGTGTTGATTGTGGAGTAGGAGAAAATAGTGAAATTTGA  
AGGTAGAGG  
>Sequence 1288  
GGTACCTTGTGCAGACCGCCTACCTCATCCTGTGACTTAGAATGCCTAAC  
CTCCTGGGAATACAGACCAGTAGGTCTCAGCCTTATTTTACCCAGCCCTT  
GCTACATTCAAGAAGGAATCACTCTGGTTCTAATGCCTCCGACAGAATGG  
TCAGATTCTCAGACTCTAAAGCAAAGAAGACTATGTTCACTGACAGCAAG  
ACTGTTGAAGAAAAATAAACTCGAATGGCCTTGAGGAGCTATTATCAATA  
AAAACAGTATAACTTATAATTATCTGTTGTGTTACAATGAAGTATATCAT  
CACTGCT  
>Sequence 1289  
ACTAAGGTTGTTAGCCCTCTGCTGGAAGAGAGTGTATTAGTCCATTTTCA  
CACTGCTGATAAAGACATACCCGAGACTGGGTAATTGAGAAAAAGAGGTT  
TAATGGACTCATAGTTCCATGTGGCTGGGGAGGCCTCACAATCATGGTGG  
AAGGTGAAAGGCACATCTTACATGTTGGCAGGCAAGAGAGAAATGAGAGC  
CAAGCAAAAGGGGAAACCCCTTATGAAATCATCAGATCTCGTTAGACTTA  
TCCACTACCACAAGAACAGTGTGGGGGAAAGCACCTCCATGATTCAN  
>Sequence 1290  
CCCTTTGAGCGGCCCGCCCGGGCAGGTACATAGGCTCTGCCTATCTCTGTG  
GCATGGATCCTACATCCACAACCTACACATTATTTATTTATTTATTTTTG  
CAAAATCCCAATTCCCCAGAAATGGTCCTCACCTCATTGACATATGCAGGA  
AGAGCCAAGGGGGAAACAGCAACTTGGAAATGACTATGACAGACTAACAC  
AAAGGACAAGAAATGGCTCTCATGGGATGTAGGTGGAAGGAGAGGCCTCT  
GGCATTGGCAGCTCCCTACCAGAGGTGTCCTGCCCTCTGTTCTCTTGGGG  
TAAGGGAGCCACTGGGCAGGAGTAGGCAG  
>Sequence 1291  
CCCTTTGAGCGGCCCGCCCGGGCAGGTACATAAGCTCTGCCTATCTCTGCG  
GCATGGATCCTACATCCACAACCTACACATTATTTATTTATTTATTTTTG  
CAAAATCCCAATTCCCCAAATATGGTCCTCACCTCACTGACATATGCAGGA  
AGAGCCAAGGGGGAAACAGCAACTTGGAAATGACTATGACAGACTAACAC  
AAAAGACAAGAAATGGCTCTCATGGAATGTAGGTGGAAGGAGAGGCCTT  
GGCATTGGCAGCTCCCTACCAGAGGTGTCCTGCCCTCTGATCTCTTGGGG  
TAAGGGAGCCACTGGTCAAGAATAGGCAGC  
>Sequence 1292  
GGTACATTTTTTCTCTTTTTTTTTTTTTTTTTTTAATTCTGAGATT  
CCCCAAGCTGTGGATTCTTCTACTCCTTAAGAAAAAACTTTGGGTTTA  
TTAGCATCTACACTTTTGTGAGTTGTGTCGCTGTTTTCCACCCATTTTA  
TTATACTCTTAAAGATGTAATTGTTGTCAATTTGAACAGTTAAACATCT  
TTGGGTATAAAAGAACCCCAATGGTTATGTTATGCTTTGTAAATTTTGT  
TTTTTTGGTTTTACCTAAATAAACTTTCAGCTAATCATATAAGGAAAGAG  
ACTGCTTTTTT  
>Sequence 1293  
GGTACTACCTGTTTAAGGACATACCAGAAAAAAAGTATTGATTTTTATCC  
TATGCTAAACAGTGCTGTGATAAATTTTGTATCACTTGGAGAATGCTCCT  
GAAATTATGCAACTACTAGATAACCCCTGGATCAAAGAGGAAATCAAA  
AGGGAAATTTACACTGTATTGTAAAGAGAGGAGACTTTTATGCCAAAT  
ACAGTAAGTCTTTTAGTCAGATAAAATTAATAATCTTAAATTCCATTAT  
GTAAAGAAGAAAGACAATTAAGAAATCTGACACTAATCAGAAGAAATTA  
GAAAACGAATAAGTAAAGAATCTGAAAAGGAGAAATAAAAA  
>Sequence 1294  
GGTACAGTGGGAGAGTGAGGTGGGAGAAGAAGAGTGTCTGGTTTTGTGTG

Table 2

CTTCACTGTCTTCTTGGCATGAGCTATGTTTTAATTTGGAAAGAGTAGGG  
CCGCTTCAGAGCCTCCTACAAAAGTGCTAGGGCCAAAGACTTTCTTAGCT  
TGAACATTTGTATCTGACTAAAATTGACTTGGGCAGCGCTTTCTGGAAAA  
TGACTTTGTTTTTGGCCTTTTTCTGGTGGGTGGCCCTTATGAGTCGTTCT  
TCGGTTTTTTCTTTCAACAATTTGCCCCCTTGAAAAATGAATCCACCAT  
GGTGTGCAACCTGTCTTTTTTTTTTGGACTAGGCCCAATATCACCTGAT  
CAATGGTAATTTTTTCTCTTCTTTGGGGGGCCTTCTTTCAATGAAAC  
CCAAATTCCTTTGGCCACCTCCAACAATTTCTTTGGGGCCCGCCCTTT  
CCTTGG

>Sequence 1295

ACGCGGGCTCTCTCCATGGGTCTGTGTTCCAGAAAGCTATGACTCTTTAA  
TGCATCTCTTAGTTTTTCTTATTTCTTTATTCTTAGTATCACAGTCC  
ATGATATCCACTGTCCTTGGGGCGCCCAATTCATTGTGCAAAAGCATTTA  
AATCAAAATACCCTATTTGTTATTTTTTAAAAAGTAAAGTGGGGATGAC  
AAGTCAAGTGGAAATTTATCCCAAAAGAGTGGGGATTACTGTGACTATCT  
GAGGAGTTATACTTGATTTTTTGTCTGATTTTAATGGACTGTAGGATCT

>Sequence 1296

ACAAATGCACATGCCGAAAGACCTTAATTTTGGATGTGATGAAATGTTTTT  
TATGCCTGGAATAAATGCCTTTCTTTGGGATGTAACCTGCTTAAATAGTA  
TTTGCTCCTCATCTCTGTGAGTTACTTTAATTTTGTCTCTGAAGTAAG  
CTATGATATTCTGGCTTACTAGTGGTGACTCATCTATCTGGGTAAGAAT  
AGACTACATACTCATTTTGGATGTATTTTGATTTTAAGTTTGTAAGTGG  
TCCACTATTTTAAAAATATTGTAGAGTGCTGATTACTTCCATTTGGGCCAG  
TGTAGCACCCCTGTGTTTATCAGGTAGGTAGATTGGATANTTGGAAATTGGA  
ATATTAATACTATAATAAACCAATGGTTTTACAAATGCCTTTATAAATC  
TAACATTGCGCTTCATCTAGATAGAACTTTCTGAAAGTGCTCCTGTCTC  
TACTTGGTGTATAAAAGGGATGACATTTCTTACAGACCAANTATATTGTT  
CGTTACTAGGATATTATCTGTGATCATCGTCCTCGTTCGTAACAAGGAA  
AAGAATTCATTGTTTAAATGAAGAACTATGTGGATTAGAAGAGNATAAAG  
ACAACCGTCACAGGGGTCCGATTAGTAAATTGAAATGAGACATGGAGCAT  
ATTTAAAAATGTCAGAAGATGTGTGAAATGTAAATCCATGACTACTCGGTG  
GTCGACTTCCGTGTTGTAATATCCACATACTGTAGTGGACAAGTTTAT  
CATAGCAGAACAGTGACGGAAATAGTCTTCGAGTCTCAGTGAGTAGCTAA  
ATATCGCACCCCTTGTCATCGAACATGGAGAACTCATGATCAACTAGGATG  
AAATATTATCGTTGGTCATTGAAGGGACACTACATATTGAGATGCATGAT  
ACG

>Sequence 1297

GGTACATTTAAAAGGTGATGCTAATACTTTAAAATGTTTAAAGATATAGAT  
TTAAAAAGCATTGTAAATTGTATACTGCAGTGTCTGCTACATGGCATTGG  
ACAGGACATAATGTAAAAACATAAAAGTGCATTTGTTACACTTACATATTG  
ATAGTGAATGGCTACCTGACCAATTTTGTCTCAAGTTAATTTCTAAAA  
CTATTTCAAGTGTCTACTGGATTTATGCCATATTACACATTTTGATATTAT  
ATACCTAAATATTACTGGCATATTTTTTGCTTTTTTTTTTGTGGCTTCAT  
ATAGTTTACATTT

>Sequence 1298

CCCTTCGGCCCGCCCGGGCAGGTACGCGGGCTTCCTACTTCCACCAACCCC  
TCTTGACAGAGACTGCTCCATTCCAGTAAAAGGTGAAGGTTCAACTGGAGA  
CCTCCAAAGTTGGCTGGGCCTACGGTTTGGGGTAGGCAATTGCTGGATGA  
GCACAGAGAGGGGAAAGATTTCATGCCATGGTGATAATAAAAAGGCCACC  
TGGGGTATGATATTGGGGACTAACGCTTGTTATTTCCCAACGCTTTGGGAG  
GGCCAAAGTGGGCGGATCACGAGGTTTGTATTTTCTAAACCAAGTTTAGGT  
CAACAATTGTGTAACCCTGTATATTTCTTATGTTGCTAAAAAAAATAA  
T

>Sequence 1299

GGTACTAAACGTGATGAAAAATATGCCAGACCTGGCCGGGCCTGGTGGCT  
CAACGCCTGTAATCCCTGCACTTTGGGAGGCCGAGGCAGGTGGATCACGA

Table 2

GATCAGGAGATTGAGACCATCCCGGCTAACACAGTGAAACCCTGTCTCTA  
CTAAAAATACAGAAAGAAAAAGAAAAAAAAAAAAAAAAAGGTTCTTTGTTT  
ACTGCAGTGTCTGTCTACATGGCATTGGACAGGACATAATGTAAACATAA  
AAATGCAATTGTTACACTTACATATGATAGTGAATGGCAACGTGACCAAT  
TTTTG

>Sequence 1300

ACATACAAAAAATCATTAACTCATATATTTCAAGAGTAGGAAATGGGAA  
CTGGTGTTAAAACTCTTATAACATATGTCACTGTCTTAAGGGACAGTGTT  
TAAAAACGCATACCTGGCCGGGCGCGGTGGCTCATGCCTGTAATCCCATC  
ACTTTTGGGAGTGCCGAGGCTCGGCTGATCACAAGGGTCAGGAGAATCGA  
GACCATCTCTGGTTTACACAGATGAAACCTGAGTCTCTACTAGAAATTAC  
AGAAAATAATAAAAAATAAAATGTCTATTGGACTGAAAACAACACTAAGG  
TGCGATTTCCAGTTCCTGCGGCGGTACTTTTTT

>Sequence 1301

ACATTTAAAAGGTGATGCTAATACTTTAAAATGTTTAAGATATAGATTTA  
AAAAGCATTGTAAATTGTATACTGCAGTGTCTGTCTACATGGCATTGGACA  
GGACATAATGTAAACATAAAAGTGCAATTGTTTACACTTACATATGATT  
GTGAATGGCAACGTGACCCATTTTGTCTGAAGTTAAAATACCAAAAAC  
ATTCAGTGGTCTCTGGATTTATGTCTATATTGAAAATCTTGGTTACTGT  
ATTCCAACTTTTCTTGGCATAGCATATTTGATTTTGTGTTTGTGCTT  
TGAGAATATGGACTATT

>Sequence 1302

CCCTTGAGCGGCCCGCCCGGCGAGGTAGGGCGCGCAGCAGCACTCGCCAAA  
GTCGTGCGAGATGCGGCAGGCAAGGCACAGAGGAGCAAAAGTGCCGCACA  
GACAGACAGGCATGTCTGTTGCAGCAGTCCGTGAGACCTGTGTGCCAGTCA  
CTGAGCTGGGTCTGGTAGCAGCTGGTGGTGGCGCACTGGGGCTGACTGGT  
CACAGGGTAGGACATAGCTTTGCCCTTTCACGTTGTCTGTCATCTCAAAC  
GCATCTTGCTGGCCCTGAGGAGGTGGCGTTGGGGACGGCAGAAGTGGCTG  
TGGCAACAGTGGCAGAGTCTGTCCAAGGGACGCTGGATACTGCAGGATCG  
CGATGGCAGTGA

>Sequence 1303

GGTACTCAAAAAACAAAACAATGGAGTATGTCCTGTTGGTAGAAAAATTT  
GAGCAACAAAAATAAATAAGTAGTATAGGATTATGACCCCAAGTATAAAA  
TAACCATCTATGAGTCCATACATATATAAATAAATGATTGAATAAATATA  
TAAACGGAGAAGAAAAAAGACTATCCATAGCAGAAGAAATCCAAATAAT  
TTTATAGACAGCTCCCCTTTAAGAAAAACAGACCTACTGAGTGTGGTCTAC  
AATTAATGCTCGCGT

>Sequence 1304

GTGCGAAATCGTAATGCGTTAACATCTGGGGCGCCTAATGCGTAGACGTA  
CCTTCATGAGTTACGCCTGGCGTGGCCTTACGAGTTACCTAATTCAAAT  
TATTTGCGCTCGCCTTCATTTGATCAATTTTCCATACGCGAAACCTGTAG  
CGCCATCTTTATTTAAGAAATCTTCCAATCCCCCGGGAAAAGCCGTTAGC  
TTATTTGGGCATTTATCCCGATACCTCGGTTATCTTTACTCCCTAACACT  
CTGCCTTTCCGTTTTCGTCAAGCAGTATTAGTTTACTTCAGAGCGCGTAT  
TTCGGTTTACCCCTCGAAATCAGGGAATTCACCCGCAAAAACTTTTATCC  
AATAGGCCTCCAAAGGCCCTAAAACCCCTAAAAGGCCTGTTTATATGTCTC  
TTTC

>Sequence 1305

ACACTGAAAACTGGACATTATAACATTAATTTTATTAGCTCTCTGGGAGT  
GAGCTACATGATGTTGTGCACTGAAATTACCCAAATGTTCTCGCCTTCTC  
TTTCTGGATGAGCTTCAGAAGGAGTTCATTACTACTTATAACATGATGA  
AGACAAATACTGCTGTCTCAGACCATACTGTTTCATTGAATTTGATAACTTC  
ATTGAGAGGACCAAGCAGCGATATAATAATCCCAGGTCTCTTTCAACAAA  
GATAAATCTTTCTGACATGCAGACGGAATCAAGCTGAGGCCTCCTTATC  
AAATTTCCATGTGCGAACTGGGGTCAGCCAATGGAGTCACATCAGCATTT  
TCTGTTGACTGTAAAGGTGCTGGTAAGATTTCTTCTGCTCACCAGCGACT

Table 2

GGAACCAGCAACTCTGTCAGGGATTGTAGGATTTATCCTTAGTCTTTTAT  
GTGGAGCTCTGAATTTAATTCGAGGCTTTCATGCTATAGAAAGGCTCCTG  
CAAAATGATGGGGAAGATTTTAAATACATCATTGGCATTTTTCTTGGAAC  
CACAGCCTGCCTTTACCAAGTAAGTTTTCTTTCTTTTAAAGAAACACTTA  
CCATTATTGTTTACTTTAAGGATCAAGTCTAACAATTGGGCATTTTAAAT  
AAATTTTAAACTCCAAAAAAAAAAAAAAAAAGGGACCTGGGCGGAACCCG  
CTTAAGGGAATTC

>Sequence 1306

GGTACACCAGTGGAGGACACGAATTCTATACCTGTAGGACAGTGCATGGA  
GAAAAACCTAATGCCGGCTGTCCCTCAAAGCCTGGGGCCAGTGCCTGGG  
CTGTCACCTCATCCATGCTATCAGTCTACTTTCCTCTTAGCCACAGAAA  
GCCCTGAAGAAAGTGGCATAAAAAATGACCTGGCTGGGCACAGTGGCTCAT  
GCCATTATCCCGGCACTTTGGGAGGCCGAGGTGGGCAGATCACCTGAGG  
TCAGGAGTTCAAGACCAGTCTGGCCAACATGATGAAACCCGGTCTCTACT  
AAAAATACAAAAATTAGCCGGGCATGATGGTGGGCGCCTGTAACCCCAGC  
TACTCANGAAAGTGAGGCANGAAAAATCTCTTGAACCCAGGAGACGGAAGT  
TGCAGTGAGCTGAGATCGCATCATTGGACTCCAGCCTCAGCGAGAACAGC  
GTGAAATTTCCCTTTTGTGTTGAACTGGCTTTTCATGGTCTTAAACATTCT  
CTCTTCAAATGGTTCTATGGATATTTTTTTTCTTTTGGAGTTGGACCTT  
TTAATCTACTTGGTTTTCCCTGGTTGGTGCAAAGTGTACCCTGGCCGGGG  
CGCCCGGTTTAAAGGGCGGAAATTCACACACTGGGCGGCCGGTTCTAAG  
GGATCCACCTTGGTTCCCACTTGGCGGTATAAAGGGCATACCGTGTCC  
TGGGTGAAAATGTTTCCCTCACCATACCG

>Sequence 1307

GGTACCCTTGTTACAAATATACCATCATCATCAGGTCTGAATGGGTTTTCC  
TCTACCCCGACACCACCTGATATGCTAAATCCAAGTTCTGGATCCTTTT  
CAACCCTCACTCGAATCTCTTGTGTTTGCCAGTTCATGGCCTTGTCTAGGA  
GAACAATGGGGCTGTGTATATGGAGACTGGTGGGCCACTTTCAGCATCAA  
GTAATCAATTAGTTGTTCTCTAGAGGGATGCCTTGCCACAGATGCCTGAG  
GGGGGTGATGTATTTGACTATAATTTGCCCTGAGGCCTGAGAGGCTGGCCC  
ATCTGTCCATTACTCAAAGGCATCTAAGAAAAACATGAAGTATCTTAAAA  
TGACCAATAATAATGTCTTATTTCAAATATTTGGATTTCTTCTTGAGCA  
TTACAAAAGCACTAGAGTTTTTCACATTCTAATTAAGTCAAACAATACCAT  
GCCACTTACTATTTTTCTATAATTTTAAACTTAAAGAAATAAGCTATT  
AATGTCTTAATTCTAAGTTTCTGAGTGCTTGTGTGTTACACTCACTTTTT  
TAAGCTTTTCAATGGAAGTACCTGCCCCGGGCCGGCGTTCAAAGGGCG

>Sequence 1308

TTTATTCGCCCTTATCGTGGTCGCGGCCGAGGTACTTTGGGGTTTTTTTT  
TTTTTTTTTTGGGTCAAGGAGTCCTGACTGGGAAAACCCTGAGCTACAA  
AAGCAAGATTTTACTGAAATTAATTATTTACAGACAGACTGGAGATCAC  
AGGTCAGTGAAAAGTCATTTCACTGAACAGAGCTAAGGATCTAGGATAAA  
TTGTAATAACAGCAAAGTGAAATTTTTTTTAAAGAAGAGCAAACTCAAAG  
TCAAAACATCACATACTCTTATGCCTTTGGAAAAGAAATAATAAAATAG  
AAATTTGCCTCCATCAAAATTATAATACTATTTCTGAATTCAGGGAAAAAG  
ACAGTGTTATTAAGGAATTAATTAATATATCAAATTTCTACTCTATTA  
TAAACATACCAAGAAAAATGAAACAAAAAATTAATTAACAAATTTATTTGG  
GCTCACCGAAAAAGAAAAATCCCTTCAGGTGTCACACACACACGCACCCAC  
ACCACGGCAAACAAAAAATTAACCATTTTATCTTTTCCCAATTATTTT  
GGGTGGTTTTTGGGCTTGGTTTAACTACATAAACCGGGAGGGAATGCCAAT  
TTACAGGGGGGATCAAAAATGGCCCCCACCATGCGGGTGGGGTGGCCCC  
TTTTTTTTTCCAAGGGATAAAGATTACAGGTGGTGGACCTTTTGGTTTTT  
ATTATAGAAAAGAGGGCCCTTTTGGGCCATTGGGGAAGGGCAAAAAAAT  
TGGGGGGGTGGGCTGCTTT

>Sequence 1309

ACTTTTTTTTTTTTTTTTTTTTTTCTTTCTTTTTTTTTTTTTTTTTTT  
TTTTTTTTTTTTTTTTTTTTTAAAAAACCCAAACCCCTTTTTNTTTTAA

Table 2

ACCCAAGGGGTTAAGTCTTATTAATTCAACCCCTTTTAAAAAACTGGAT  
TTAAAAAGGTTATTAAAAAAATTTGGACCCCGTTTTGAAAAA  
AAAAAACCGGTTGGGAAATTGCTTATTGAAACGAACCTGGGCAATTTT  
TAATAAAACCTGGCCAAAGGGGAGAAGGAATTTTAAATTTAATTTTCA  
AAAAACCCAAGACCTTGGGCGGGAACAACCTTAGGGGGAAATTCAACAAA  
ATGGGGGGCGGTAATTAGGGAATCCAACCTGGGACCAAGTTGGGGGAAA  
TAAGGGAAAAAGGGGTTCTGGGGGAAAATGTTATTCGCTTAAAAATTCA  
CAAAAAAAGAGCCGGAACAAAAAGGGTAAACCCGGGGGGGCAATG  
GGGGAGCCTACCTCCATTTATTTGGGTGGGCTCTATGGCCCTTTTCAAG  
GGGGAAAAAATTGTGGGGCACTTGTTTTATAAAATCGGCCAACCCCGG  
GAAAAAGGGGTTTTGCTTTTTGGGCCTTTTTCTTTTCTTGATAAAAAAT  
TGTTGGCCTGGAAGTTGGGTGGGGGAAAGGTTTAAATTTACTAAAGGGG  
GAAACCGGTTTCCAAAAATTGGGGAAAACCCGAAAAAATTGTTAAA

>Sequence 1310

CCCTTCCAGCGGCCNCCCCGGCAGGTACATACCCTTGTAGGATAATTCA  
TCTCTAATTGAGAGGGGAGCTGACCTTCTGCTTCCTTTAATCCCAGATA  
CCGATTGCCTAAGGGATCGTTTGACTCAGACTAGTGAGAGGTGTGCAGAT  
GACATCCTTACACTCTGGTATCATGCTATATGGTTGTTGCATCCAGTTGT  
ATAGGGATGGCTGAGCATATGCATAAATTAGCGTCACTGTATGACAACTA  
TCTATATAATGGTTTAAATTATACTTGGACGTCGACCCTGCATATACACTA  
TATATTTCTTGGAGCTATCTTAACTGCGAAGAAATTGTAAATTTGAGAC  
GTCTCTCATGAAACATATTGAGATATGTCGATAATGGAACATGTATTGTT  
TCCTCGTTGTTGGTATAAAATATGCACACTGAGCTCAAGCGCATGTAACA  
CTAAATATGCAATTGGTAAAGTTATGAATCTCTGTTGTCCATATATAATAT  
ATACATGAGTGGAGTGTACAAGTGGGTTCTCTCTCTGTGTGACACCTAGC  
ACACTTATATGCACGTGGATATATACGTACATATATATGTCAACAGAT  
GCGCATATAAGACATATATACCTAGGTGATANGTCTATGCATAGAGTTTG  
AGAGAGTCACAGTACATCACTTGTGACATATGCAGTACGAGTGTATACAC  
ATATATATGGTTGCACATGATGAGATCTAAGACTATATGGTACTTTACAT  
ATGTACGTGCGGATAAGTCGACACTCATGNTGGTGATTATGTAGTGTGT  
TATATGTCTACTTACACATATGTGACTAGATGTATACACTGACTGTAAGC  
TCCTCAATACATGTGAGTAGTGTACACTCTATCGTGTGCGTAGTACACTA  
CGTCCCTATATGTGGTCTGTTATGTATCTTCTGTGCATACATATAGGTCGC  
GGTGCGCGTTATATCTTACGTGTGTGATATACCGNAGCACTCGTGAGATA  
CGCAATGGCATTGGTGTGCGTGACATATCATTGTGACTTATGTAAAGNTA  
GATATTACGTGTGGTGTGATAAAACANTCGATATGTCTCAATGTGTCTAG  
TCACTATTGATACGACACACGACATGTCTGGTGGCGGATGATAAATGACA  
TATTATGTTCTATATAANACATCTCGTAGCACTACGTCATGATTGACATG  
CGAGT

>Sequence 1311

ACAAACTAAAATTATGGGAGAAGAAACTATGAGTGAAACGATGAGAAAAA  
CCTAATGCATGATGTAGAACTGAGTGGTGTTAATAGCAGAGCACTGGAGG  
GAAGGGCCACAAAACCTTTCACCCCAAGGTCTAGAAATCATTCTAGAATCA  
TCCTACAAGCCTAGTTTTTCATGAGATTCAGCCCTATTTTATTTCTTGCTC  
TTGGAATTATATGAAATTACGAATTTCTGTGTGTTGTGACGTGTAATAGA  
ATACCCCTGGAATTTTATTTACTTTTAAATTTTGTTTATTTATTTACTTA  
TGTGCCATCTTCTCATGAAAAAGAGGCAGTATGTTAAAAGTTTGAGTTCA  
GATTTTCTGATGTAGATAAATAAGCTAAAGAAGGCAGGGTGAAGTGTGAT  
ATATGAGAATTTCCAGAGCAGGGTATTCGTAACCTGTAAGTATTTAGTCC  
AAGTTCCCTCTCCCAACACATTTTACACTAGAATAAGATTGAAAGGCCAG  
ATGTTGGTGGCTCAGCCTGAAATCACTTTGGGAGGCCAAGGCAAGTGGAT  
GGCTTGAGCCAGGAGTTCAAGACCAGCCTGGGCTACATGGCGGAACNC  
ATCTCTACAAAAAATACAATAAAAGGTAACCTGGGCATGGTGGTGTGTGC  
CTGTATTTCCAACTACTTGGGAGGCTAAAGTGGGAGGATCACTTGGACCA  
AGCCAGGTCAAGGCTGCATGGAACCATGCTTGTAACCTCGGCCGGACACGCT  
AAGGCGAA



Table 2

## &gt;Sequence 1312

ACAGTAAGCCAAGATTGTGCCACTGCACTCCAGCCTGGTGACAGAGCGAG  
ACTCTGTCTAAAAAAAATAAATAAATAATAGAGGTGAATGTCTGCATTAG  
GATCAAGACAAGAAGAAGACAGACAATCACTTTGGAATTCTGAGACTACC  
TCCAAGAATCATCCACGGAAGGATGTCAGCCATTTAACCAGGGGCTACGGA  
TCAAAAAGGAAAAAATACAGTCAGTGGACAAGTAGAAGAGTCTCCTGAAA  
AATATCCGTATTTGAAAAGGCAGCAGGAGTTGATAGAAAACATAACTAAA  
AAAGTAGAAGACACTGTAAATTTGAATCTGGATCCTATAT

## &gt;Sequence 1313

GGTACTTTTTTTTTTTTTTTTTTTTTTGGTNATTTTTTTTTTTTTTTTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTAAAAAAAAGGGCAATTTTAAA  
AAAAAATGTAAATTTGCCCGGTAACCCCAAGGGAAGTCCCTGACCC  
CCCCCAAAAACCAAGGCTTTCCCTTTCCCCAAATTTACCCGTTTCCAA  
AAACCAAAGTTTAAACCTTTGAATTTTAAACCCCTTCTAACCGGAA  
AAATTTTTTCAAATCCCTTACCCCAATTTAATATAACCCAAAAATTATT  
TTTCTAAAAATAAAATTACCCCCCAATTTAAGTTTTTTAGCCCAAAA  
TTGAACCAAAATTAACCCCGGTTCTAAAACCCCAATATCCTGTTTTGT  
ACCCATCCAATCAAGGTCCCTGCCCGGCGGCCCTTCTAAAGGGCCAATT  
CCCCCCCCCTGGCCGCCCTTCTTGTGGATCCCACCTTTGGCCCAACCTT  
GGCATAAACAAGGCCATAACCTTTTCTTGGGAAAATTTTTATCCCCCA  
CATTTCCCCCACTTACTGCCCGAACCATAAAATGTAAACCCCGGGGC  
CCCCAATAAGGGGCCCCCCCCCATTTATTGGCGTGGCCCTCCTCCCC  
TTTTCCACAGGGGAAACCTTTCGTCCCCACTTTATTAATAATACCCCC  
CACACCCCGAAAGAGCCGTTACGGTTATTGGCCCCCTTTTCCGTCTTC  
CTCTACAAGACT

## &gt;Sequence 1314

CCCTTGAGCGGCCCGCCGGGCAGGTACCTTCTTAGAAACCTAGACTCCAC  
AGAACACTGTTTGACAACCACTGCAGTAGAACATAATATATCAAGATTCT  
ATGAGTGGGTTTCTTCTTCATTTTACATGTTGTAGAATAACATGCATA  
ATCAAAGCTAATAATACTGTGTTTCTTTACTCTTTTATTGCTCTAAA  
GACATCCACACATAGTGGTGAACCTGATTTTAAATGCGTTTTAAATAACAA  
GCATTGAAAAATATTAATAATTGTAGTTACTAAAAGTATTTCTTTGCG  
ATTCTCTTATCTGTGTTTCCAGACCGGTTGGAGGGTGACAGATCAGAATG  
CTCTGGTCAAGAGAATGAATATGAGGATGAGGAATAATAAACTCTCTTG  
GCAAGCACTTAAATGTTCTGAAATTTGTATAAGACATTTATTATTTTT  
TTCTTTACAGAGCTTTAGTGCAATTTTAAAGGTTATGGTTTTTGGAGTTT  
TCCCTTTTTTTTGGGATAACCTAACATTGGTTTGGGAATGATTGTGTCAT  
GAATTTGGGAGATTGTATTAACAAAACCTATCAGAATGTTTAAAGACTTT  
TTGCCGTGTATGAAGAGTGCTAGAAAATGCAAAGTGCCATATTTCCCTA  
ACCTTCAAATGTGGAACCTTGATTCAATGGTGAAAATAATTCATCATAG  
TGAAATGTTGGTTCAAATAATTCTACACTTGCATTGGAATGTTGTTGC  
TTTTATATAAAGAGACTGGTTGT

## &gt;Sequence 1315

CCCTTTGCGGCCCGCCGGGCAGGTACATTTGGTGGAGTTTGAGACCAGCC  
TGGGCAACACAGTGAGACCCTGTCTCTAAAAGCATTAAAGCATTAAATCCT  
CGCATTTTCGATAGGGCTATGTAGCTTTTAAAGTAAGCAATGTTAGAATGAG  
TTGTAGAGTTTTATTTTTGTGAATATAGTGAGTGACAGATGGCAATTACA  
TGAGGATATTTGAACGAAGGTACC

## &gt;Sequence 1316

GGTACCAAAGACACTTATTATTCTAACATGCATCAAGTAAAGTAAACAA  
GGAGAGAGGCTGCGGTGTGTGGGTAGGGGATGCAGGAGAAGCTGTGTAAAG  
GTAGTGGACAGC

## &gt;Sequence 1317

ACTNNATGTCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
TTTTTACCCTGAGTCAGAAAATTTTTTAAATAGTTACAAAATTTTTTT  
TTTTTTTTTTTTTACAGAATCAGTTTAAATAGCGGGGATTCTCCATA

Table 2

ATTATCAAAAATTTTTTTTCTTGGGGTTTTGGCTAAGGGGGGCTGAAATC  
AACAAAAGGCCTTGGACTGTTGGCTCAAAAATTATTCTAAAAAGCCCCC  
CTGTTGATATTTGGCATGCTTAGCCCTTATGAAATGACCCCTTCCTAAA  
AAAAAAAAAAAAAAAAAGTTCCTTGGGCGGGACCACCCTTGGGGCGAAT

>Sequence 1318

CCCTTAGCGCCGCCCGGGCAGGTACTACTTTTTGTTTTTTTTTTTTTTG  
GATCAATAAGTTTATTTATGTTGCATCACACAATAGTTACACAAGCATT  
AAAACACATGCACACGTGTTTATTATACCATACATACAAACACACATACA  
ACTTAATATTTACAAGCACATACAAGCACATACAAACATATAAACAACAA  
ACAACACTAATTTAACATACATACAATACTTACAGCTTACGTTTTTTGCG  
TTTAGCAGTTGTAGAGGTAGATGAGGCGGTGGGTGTAGCTTTTCGTTTTT  
CTAATGTAAATTTTGGTTTGGCCATTAATCCTGCTTGTAGTAAAAATTTG  
CGTCCTAAAGGAACTGATCTAGGTCTGCAGAAAACCTTTCCTTTAAATA  
TACTGCCCAAAAAGAGTATTTTTTAAGGGGATCTTCTTTAGGTGCTGGAA  
GTGTATTGTTTTGACAAGACATTGCCTGGGATGTTACAAAACCTTAAGTA  
TCTTTTAAGGGGCCCTCCTGGGGGAGGTTGTAAACCAAAATTTACAGACTC  
CAAAATAGTGGAAATGCATAAAATGTTTTTTATTTATAACGTTTTTCAGTT  
AATGTTATTTTCAAAATTTGTAAAAAAACTGTAAAAATTTTTCATTCTAT  
GGTGGAGGTACTTGGGCCGCAACCCTCTAAGGCTAATTTAGCAAACCTTG  
AGGCCTTTCTAAATTGTTTCAATTAGGTCTCTAATCTTGTATAAATTAT  
ATATATCTGAATG

>Sequence 1319

GGTACATGAAAACATCAGTGTGACAGTTAATATTAATGTCAACTTGATT  
GGATTGAAGGCTGTAAAGTCTGTCTTCTGGGTGTGTGAGTGAGGGCGTTG  
CTAGAGAAGACTAACATTTGAGTCAGTGGACTGGGAGAGGAAGACCCACC  
CTCAATATGGGTGGGCACCATCCACTCAGCTGCCAGCGAGGCTGGAACAA  
AACAGGAGGAAAAAGGTGGGATAGGTGACTTGCTGAGTCTTCCAGCTTTC  
ATCTTTCTCCCTGCTGGATGCCTCCTGCCCTTGACATCAGACGCCAGGT  
TCTTTGGCCTTTGGACTCTCAGACTTACACCAGCGGTTTGCCGAGGGCTC  
TTGGGCCTTTGGCCACAGACTGAATGCTCTACAGTGTGGCTTCCCTACT  
TTTGAGGCCTTTGGACTCGGACTGGGCCACTACTAGCTTCTTCTCCTCCTC  
AGCTTGCACGTGGCCTATAATGGGCCTTCACCTTGTGAACATGTGAGCCA  
ATTCTACTTAACAAACGCCCTTTATACATACATATATCCTATTAGTTCT  
GTCCCTCTGGAGAACCCTATACACTCGATAAAATGTCAATAAAATTTTAA  
ATAT

>Sequence 1320

GGTACTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAATTTTTTTTA  
ATTAATAATAAA  
AA  
AATAAAAAATACACCCATACCCAATTATTTCAACTAAACCAAAAAATAT  
TTTNAAAAAAAAAAAAAAAAAATAAACTTAAAAATAAAAAAAAAAAAAAA  
AAAAAAAAAAAAAACTAATTTAAAAATAAAAAAAAAAACATTTATCCTTTA  
TAAAAATAAAAAAAATTAAAAAAATAAAAAAAAAAAAAAAAAACAAAAATAAC  
ATTTTCAAAATCTTCATATCCATATAACCCCTAACCAAAATAAAAAAAAA  
AATTAATAATACAAAAATATTNCTTCTTTTTAAAAAAAAAACAAACCCCA  
AAAAAATCAAAAAATATACAAAAAAATAATTTTTAAACAAAAATCAC  
AATCCAAAAATAAAAAAAAAAACAAAAATAAAATAAAAAATAAAATCAA  
TACTCATAAAT

>Sequence 1321

GGTACTT  
TTT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAAAAAAAAATCC  
CCCAATTTAAAAAACCCCCCAATTTTAAAAACAAAAAAATTTTTTA  
AAAATTCCGAGAGGGGAAAAAAAAAAAAAAAAATTTCTAAAAAAAAAAAA  
ACCCCGGGGGTTTTTTTTTAAAAAAAAAAAAATTTTTTAAAAAAAAAAAA

Table 2

AAAAAATAATTTTTGAAAAAAAAAAAAAAAAAATTTCAAAAAATGGAGA  
GGTTTCTTTAAAAAAAAAAAAAAAAAACTATTTTTTTTTTTTTTTTTAAAAA  
AAAAAAAAAAAAACCCCCCTCATTTTTTAAGAAAAATTGGGGGGGAAAAA  
AACCCCGAAAAAACAAAAATCTTTATTTAAAAACATCAAAAAACCCGGG  
GAGGTAAAGAAAAATTTTTATAAAAAAGACCCAAAAAATTTTTAAAAA  
AGAAAACCACAAAAATTTATATAAAAAAATATAAAAAGGATCTTCTN

>Sequence 1322

GGTACAGAGCTTCTTCTATTAAGTGCCTAAACTATAGGCAAACTTTGGT  
GTTCCCACTAAAACACAAGAGCCTCACACAATTAGGAAAAAAAAATCAAA  
AGAAACAAGGAACTGAGAATGGAAGTTAGTGTAATCTCTGCATTTGGG  
GAGTTGTCACTAACTCCAGAGCCAGCATAGTTTCCATGGAGCCCTGAAG  
GGAGGGGACCTCCTGCCACAAAGAGTTTCGTTCCAGACGAGTCGTAGCAG  
TGGGTGTAAACAGCATTGGGGAAGAAGTCAATGTCTGAAAAGTAATTCCT  
CCAGGTTTCATCATGATTCTACGGGAAGAGAAAGAGACTACAATTAGCAC  
CTCTAGCCATGGGGCAGGAAAAGGGGGAGGAAGGGACAGGAATGCTTTCT  
GGTCTCCTTAAGGGAACAGGGTTCTACAGGT

>Sequence 1323

ACTTTTTTTTTTTTTTTTTTTTTTTTTCTTTTTTTTTTTTTTTTTTT  
TT  
TTTTTTTTTTAAAAATAAAAAAAACCAAAATAAAGGGGGGGGAAAAA  
ATTTTTAAAAAACTTTCCCAATTGGGGTTTTTTAAGGGAIAAAAAAAAA  
AAAAAAAAAGGGAAATTCCCTAAAAAATTTTACCCCCCCCCCTTCCAA  
AAAAAAAAAATTTTTTTAAAAAAAAGGGAACTTTTTTTTTAAAAA  
AAAAAAAAAAAAAATTTTTTGGTTATTTTTGGGAAAGGGGGGGGAAAAA  
AATTTGGGGGGTTGAAAATTTAAATGGGGTTTTAAGGGGAGGGTTTACCT  
TGGGGGGGGGGGGGGGAAAAACCCCAAAAAAATTTTTTTTTAAAAA  
AAAGCCCAATTTGGGCCTTTGGGCTAAAAGGGGCCACCCCTCTCTTAA  
AAAAAATTTCTTCTTAAAAAAAATTTCTTCAAAAAAAACGTTTCTAA  
AAAAGAAGGTGTTGGATAAAAAAATAAGCGCCAAACCCTCAAAAATTT  
GGGGGAAACTN

>Sequence 1324

GGTACTGGTTTAGTTATGGCTGTTTTTGCCTCTAACACTTTTATTTA  
AAAAGAAAAATAAATAGGTTATTGGGATCAAAGATATAGGCTTTTTGTT  
ACTTTGAATGATTTTTGTAAATTCAGAATATGCACTTGTTATTTCAATTCT  
TATTTTTATAATTATTGGTAGAGTTCATCTAATTACCCCTATAAATCCCTG  
GAGAAAGGTGGCCCCCATATACTTTATTTCTTGGTTATATGTATAAAAA  
CAGTAGGCAATGTAAAAATGTTTTGTGTGAATTTATGTGAGTTATAATT  
CTAATTCTATGTCAATATTCACCTCAGATTACCACATGAAAGCTCAGTCA  
CCAATATGCCTCATACTGAAATACCCACTGATTAATCAGTTGACAACC  
AGTCTCTATCGTACCTGCCCCGGCGCCGCTAAGGG

>Sequence 1325

GGTACTTATTTTATTTTTTTTTTGTGTTTGGAGCAAAAGGTAACGTGAAAA  
GCAGGCATGGCATATAAGCAAGCTTTTTTTAAGGCTGAGTGACTTATGTG  
GCTGATAGAGGAAGGATAGGAGGAAAGGAAATATAGTGAAAAGGAACAGA  
GAGGAATAATAAAGCTGGCAAGTCACAGACAACATAATTAGACTATCAAA  
AGAAAATTTGGAAGAAAGGCATGGACAGGAATAAAGACCTCCTTCTAAAG  
CAAGGTAGGGAGAGCAACTCGATGTAGATTGAAGAGAAAAAGGAAAGAAA  
AATGAATGTTTCATATTTGATGGCCTATGATTATCTGGGTCACTGTAAGG  
CAAAGTAACATGTTCAAGTGATGAAATTGGGTAACCTTAGGATAATGATG  
ACAGTTCATACAACCAATTCTGAGAATAGAAGAGAACACTGACTATATGA  
ATAGAAGGATTTTAGAGACTTTACGACTCAGCCGAGTTTAAATTTAAATAT  
TGGTAGGCATTCACTCAATAAGGGTATACATTTTTTTCCGACAGCTTAG  
CCCTTTATGAAAATAGAGCCCTAAGAAAAAACCCCAACGTATGGGTAACT  
ACCTGTGAATCTGGTTAGAACTGTTAGAAGGAACTTCCTGCAAAAGTTGG  
TAGTAAAATGCAAAATTTAATCAGGTAAATGTCCAACATTGAATGGATATT  
GCTTAAACCACACCGTAAATTTTTGAAAATGTAACTTATTTAGAAAATA

Table 2

ATTTAATTTTAAAGGGATT

&gt;Sequence 1326

ACGCGGGATATTTATTTACAAAACACTTCATTATTTATAAAGAATTTACT  
AACAGTTTATCTTATTTATACCCATACATCTGCTACTTTGGGAGGCCCTT  
TACATAGAAAAACAGCATTCTTTTTGCCAAATATGACCAAATTACTTTTAT  
TTATAATTTTIGATTTATGTTTCAGCTAGATCTAAAAAGCATCTGAAGGA  
ATTTACAATGAAAGATACCTATGCAATAACATTTAGGATAATCTTTGACA  
TTTTGGAAAAATAAGAATTGAGGAAAAAAGTGATCTTTCAAGTAGATGC  
AAAGCATTATAATGACTGACACTTGTATCTAACTCCAGTCTTACAGATAA  
CTAAGGCAAAAAAGCTAAATAAACAATATGTAACCTCTAACATTTGGTAAA  
AGGAAGTATACTGGTCTGTTAGCAGAGACAACTTTTTTTAGAATTGAAG  
TCTGAAACAAACAAAAGCAATTCAATGTCAATAGACATTAAGCAACATAA  
TAGACAAACATCTCCTAAGGGAACATTTGTTACAGCTGCTCCTTTCCTGA  
ACTGTGCTTTGGAAGATAAGCTCTGTCTGAATCCAAACCAAGCT

&gt;Sequence 1327

TATACGGCGAATTGCAGCTCCACCGCTGCGGCAGCCGACGTACATGCCGT  
GGAAGAGACTCAAGTAGGAGCGCCTGCCCGAGCTGATACTAGATGTGAAC  
CTTTCACCATGAAATGTAAAGATATAAAGGAAGGAGTTAAACAATAT  
GGATCCAACCTCCCCTTATATAAAAAACATTATTACATTCCATTGCTCATGG  
AAATAGACTTACTCCTTATGACTGGGAAATTTTGGCCAAATCTTCCCTTT  
CATCCTCTCAGTATCTACAGTTTAAACCTGGTGGATTGATGGAGTACCT  
GCCCC

&gt;Sequence 1328

CCGGGCAGGTACCGGAATCTGCAGATCGCCAAGATTTTCTATAATGATGC  
CCTCCTCACGTTTGTCTGGAACTGGTTGTGAACTCCGAAGAGGCTTCC  
GGAAGGAAGACATAAATNNNCCNANACGAGGGGGGACATAGGAGCTCCAC  
GACNNTNTCTTCTATTACTCGGCANCCCCCTGCAAGCCTCTCTTCATCTG  
GGGCCATTCTTCAGCAATNAAGAAGGGCAAACTCTCCAAAGTTCATTTTG  
GGTAGCCAGAACCAGGGGGCTGCCACTTCTGGCAAGCCCCCTGGGGAGCCC  
AGGCAAGGCCTTTCATGGAAGAACCTCTTGGCCAAAGGTTGAAGAAACGAA  
CAATCATATGCCTGNATGGGGAGGTCCCGAGGAAGCCCTGGCTGAATGA  
GGTACCCCTCGGGCCCGCTTCTAAGAACTAAGTGGGAATCCCTCCGGGG  
CTGGCAGTGAAATTTTCGATTATCAAAGCCTTAATTCGAAATACCCGTCC  
AACCCTTCGGAGGGGGGGGGGCCCGGGTAACCCAAGCTTTTGGTTTCCC  
TTTTAGTTGAAGGGTGTAATTTGGCCGCGCCTTTGGCGGTAATTCATGGG  
TCAATAGGCTGGTTTCCCTGTAGTGGAATAATTGTTTATTCCGGCTCAACA  
ATTTCCCACACAACCATTACAAGCCTGGGGAGCCATAAAAAGTGGTAAAAG  
CCCTGGGGGTGGCCTAAATGAGTTGAGCCTAACTTAACATTTAATTGGCG  
TTGGCGCTCACCTGCCCCGCTTTCACAGGTCCGA

&gt;Sequence 1329

ACAGAAGGTTTGGGATTCAGCATCACTTCCAGAGATGTAACAATAGGTGG  
CTCAGCTCCAATCTATGTGAAAAACATTCTCCCCCGGGGGCGGCCATT  
AGGATGGCCGACTTAAGGCAGGAGACAGACTTATAGAGGTAAATGGAGTA  
GATTTAGTGGGCAAAATCCCAAGAGGAAGTTGTTTCGCTGTTGAGAAGCAC  
CAAGATGGAAGGAACTGTGAGCCTTCTGGTCTTTCGCCAGGAAGACGCCT  
TCCACCCAAGGGAACGTAAAGCAGAAAGATGAGGATATTGTTCTTACACCT  
GATGGCACCAGGGAATTTCTGACATTTGAAGTCCCACTTAATGATTCAAG  
ATCTGCAGGCCTTGGTGTCAAGTGTCAAAGGTAACCGGTCAAAAGAGAACC  
ACGCAGATTTGGGAATCTTTGTCAAGTCCATTATTAATGGAGGGGCAGCA  
TCTAAAGATGGAAGGCTTTCGGTGAATGATCAACTGATAGCAATTAATGG  
AGAATCCCTGTTGGGCAAGACAAACCAAGATGCCCTGGAAAACCTAAGA  
GGTCTATGTCTACTTGAGGCCATAAACGAAGAATGATCCCGCCTTCC

&gt;Sequence 1330

ACCGTGTTTTGATAGTTGACTAACACTGACCTGTAATGGTCTACACCCT  
CTCCACTTATTAACACTATCTTAGGTAAATAAGACTTTTATTCTAAGTG  
TGAATTTTACAGGAGGAGAAATCTGGCAGATAGATCCTCACCATCATCT

Table 2

GAACACTCGAACTGGACTTCCTTTTCTGAATTGACCAGTCAAAGAGAAAAG  
GAAAAGAAAAAAATATGACCGG

>Sequence 1331

GGTACTGTTTGCATTAATAAAATTAAGCTCCATAGGGTCTTCTCGTCTTG  
CTGTGTCATGCCCGCTCTTCACGGGCAGGTCAATTTACTGGTTAAAAGT  
AAGAGACAGCTGAACCCCCCGCTACCACTGTAATCATTATTCCAATGT  
TATGATTACATTGACAGATAACTCCAGTTTGTAACTGAACTGATGTT  
ATGGCCATAATATGTTGTTGATTTCATGGCAAATGGTGATGTGTGAGTTAT  
GATCCTGTTTTCTCACAATGGTGGTGGAGCCGGGAGCTTATATGTTTA  
TTTATGTATGAATGACGATAGTAAGAGATGGCATATAATCACCAGACTGA  
TCATATTGGATTCTTTGGGGAACGGAGCCGGAAGGGAGTAAACAGAGAAG  
CTTGACTCTTTATATATCTGTAATCTGCGGCTTTTACAATGAGCATGGT  
ATTTTAATATTTTAAATATCTGATTAAGAACTTATGAAAGAGCCGNT  
TTTGAGGTTTAGTGCTAAAATAACACTTAAATGTTATTCTTAAACAATGC  
AACTAGTCTGGGTGAAAGAGACCATAAGGCGCTTTAAACCATCCATTGG  
ACTCAGGGAAAACCATGCTCCAGGGGGGAATGAAATCTAGTGGTCCCTT  
AGTAAGTCTTTAAAAGACCCTTCAAAAAATTTTTGTGTTCACTTTATAG  
TAACCCACACCCTCTTCCCAAGATTGCCTAAAGGGGTGGGGATGGTCGGG  
CTTTATAATATTTCGGCAATGGAATTTGTGGATAACGTTTGGAACGGGAT  
AATCTTTGGG

>Sequence 1332

ACTGGATTTTTGCAAGCCCTCTATTTAAAATCCCCAGAAATTAATAAG  
GAGGCTTTGGAGGGAGGAATGCCCTAGACAAATGTGGAGTGGGTTTGTT  
TTGTTTATGGAGATGGTCTTTAAAGTCTAAATGTCCCCGTTTTATTTT  
GCCCAATTGAAGAGGGGCTGAACTCAGCTGGGAGGGAGGGGATGGTTGTC  
AGCCTACAGCTTTTAGTTGAAACCAAGTCCATCTGCGGGCCAAGAAGCTT  
CCATTTTAGCAAGAGAGAGAAAGCGAAAAATATACAAACCTCGTACCTC  
GGCGCGGACCAACGCTAAGGGG

>Sequence 1333

ACTTAATTCATTCTACTTTGTGTTAACTATCTTTTATGTGTAGGTCTCA  
TCACCCCAACCAGACTATAAAATTCCTTTGTCATTATTTAAATCCATGCAT  
GGAACCTCCATAGACATCAACCAATCACCATAGACAAGCCTTAGAACAT  
GTATTACAGGAAAAATAGAGTAACACATACTAACTAATACAGAGGAAGAAC  
AATTGACATTAAAGTAGAAAAAAATTAACACTCTTGGAGTCTATAGAA  
AAATGTAAAGAGAAAAGAGAATTGAAGATAATACGTCAACTTAGAAATATT  
TAGTTTGCCTGCTTCAACATCAATAATAAAGCATACTAGGAAAAGTGGTC  
CTTTTAAAGCGATTGTTACAACCTCTCTGAGGTGCTGGTTTTTGATAAATT  
TTCTTGGCCTGAGACTGAAACTTTTATTCAGCGATTGGCTGGGTAAGAGA  
ATCAATTAAGAGATTAATGCATCGCGCCATAAACAGAACTGCCGTGGT  
GAGAGGTAACCTTTGTGACATTGTGCTAGGTTTTTCATATGGGGTGTGTAA  
GGGCTGCAATAAAATGTTTAGCATTGTAG

>Sequence 1334

GGTACAAAGTTCAACAAAGTTTGTCTTGATTAAAAAAGAAATGAA  
TATCTAATGTATAAACAACCTCAACTTAGATTTCCAAAATCTTGCAATTCA  
TTCACATTTGTGCTTCTTTCTACACAGCTGTCATTTACATTCCTAGGCTT  
GTATTTCACTATGTAAAAATGGGAATTTAATCTTTATAAATGAGGCATTTA  
TGTAATAAAAAAAAAAAAAAAGT

>Sequence 1335

ACAATAAACCCAGCCAAAGAAAATAACCAAGTTAGCACTTAAATAAGAATCT  
ACCATGTAAAAAACACAGTATGGGACACTACAAGGTAGTATTTATATATT  
TTTTAAATGACTGAGCTACAGTACC

>Sequence 1336

CCCTTAGCGGCCCGCCGGGCAGGTACATCTATCTGACCCCAAGATTACCC  
TTTCTATCATGCCCCCGTAGGATATTGCCTGGGGACACCTGACAACAGA  
AAGTCTAAGGTTTTTCATCTAGGATTGGGAGTTACCCCAACACCAGCAGGA  
TGCAGGAAAAAGTAACCTGACCGGATGGTTGCCTCAATCTGTTGATTCTTC

Table 2

AGTGAGTTAGCTCAGATTTTGTCCAGGAACAGCTTTCAGAGCCAAAAGATT  
ACGTATTGAACTCTACCAAGGCATCTGGTGACTAGAAAACTCCTGGAAGG  
TGGTCATAGCAGAAAATTGTTGGGAAAAGTTCTCAGCATATTAAAAAGAGAAA  
TTTTTATTTCTTCATGATCCACTCTACAGGGAAAAATAAATGGCAAAT  
GAACCCATGTATGTCAGACTCTGTAATAAACATCAGTGAGATCACAGTGT  
CAAGAAATTTACAGCCTGAATTAAGATACCCCTTGCTCTCTTAAGAAAGAA  
ATAGAGTTAGAAATTGTCCCTTGGCCCCGACCACCCTAAGGG

>Sequence 1337

GGTACTTTTTTTTTTTTTTTTTTTTTTGGCAAACCTTATAAATAAAAAAG  
TGGTATGCCAGTAAAGTTTCAATTTACATTTCTCTTCTGAATGAACTGA  
GCATTTTCCATTTTCTCCTAGATTCTTAGGAAGCCTTTGTATCTGCGAT  
ATAAGTTACTTTCTCCTTCTTTGTCATGTTGTTAACTTTGCACTTTCTT  
TTTAAACCTGCGAGTAAATTTTAAATCTTTTCATTTCAGTGCTTCTGGTTT  
TCAAATCACATACAGAAAGAATCTCCCGAGTCAGAGGGTGTGACCACAGT  
CTGTTCTGGTGCTTCTATGGCTTCATCTTTCACATTTGAATCTCTGACGT  
AGTTGGAATTTATTTCTGGGCTATAAGGACCCGACTTTATTTTAAGAACAA  
AATTTTAAACAAATGTTAACTTAACTTCTAAAGGCAGATTATTACT  
GGGACCATGTGTGACTNGCATGTCTATGTTTGCTTAGGAACATTCTTCCA  
GAAGAATTTGCAATGCTGAAAGGATGATGACTCAGATCGGGACATCTTCA  
TCTTGAAACATTATTGTAATATAGN

>Sequence 1338

GGTACTTTTGGTAAAAGATTTTAAGAAGGCATGGGAATATGAATTTCTCA  
CCTAAGTTTAGAGGGTTAAAGGATTGTGTTAAGTGAGGAAGGAAAAAATC  
TAAAGGTTTAAACAAGTTGTGAAAGGTTTATAAAAAATTAATGTGTGCAA  
ACATATCGGCTAAAGTTAAAGAGGTATTATTCTGTTTTCCATAAAATTGA  
ACATTGGAATAAAAGTGCAACAGAGTTTTCTAAATCATTGTTCTGCTCT  
TTAACAAAAAAAATATTGTAAAGGGTTATAAAAGGTTTATAAGAATCTTA  
CCTTATGGACAACTAACTAAACTGAATGGATTTGTAATATGCTATTAA  
ACTAAATTAAGGCTGGACGTGGTGGCTCACACCTGAATTCAGCACTTTG  
GGAAGCCGAGGCAGGCCGATCACTCTGATGTTACGAGTTTGAGACTAGCC  
TGCCCTATGGTGAAACACTGTTCTCTAACAAATATGCGAGCGTGTGCG  
GTCGCATGATGTCAGCTGCTTGTAGGATGCGCTAGAGAATTGCCCTAA  
CTGTTATGCTTTGATCGTGTCTCTN

>Sequence 1339

ACTAAAAATTTCCACTATCAGAAGATCCTGATTAAAAATAAAGAAATACAT  
AAAACTCAAACAGTAAGTCAATGTGATTATTTGTTTCATTTCAGAAGATC  
TATGGGTCCCACTGCCCGCCACACGTGTCTCCTGGTTCTCAACGAAGTGT  
GACCAGCTCTTCTGAAGAGGTAGGGTGAATGGCGACTGTGTTGTCAAAGT  
CTGCCTTCGTTGCTCCCATCTTCAGTGCAGCAGCAGAGCCCTGCAGCATT  
TCATCACACCCAAGTCCCTGCATATGGATCCCAACCACCTTGTCTTACTT  
GGTGGCACAGACCATTGTGATCACACCATTGTGGGTTTGCTTTTGGTACC  
TCGGGCGGGAGCACGCTAAAGGC

>Sequence 1340

GGTACTTTTAACTATTTGTTTCTTCTACGATAATTGGTTTGTGACTT  
TATCTACCTAGAGTAAATTTTGGCAATTTGCATTTTCTCAAAATAGTTT  
TTGAATTTATTGTGTAAATTTGCTCAAAATAGTCAATTTAAACAAATTTT  
CTGTTTTACTATTTCCCTTGTGCTTTAAATTTTGTATTTGTGCTTCC  
TCCCGCGT

>Sequence 1341

ACTTTGACTATTTTGTAGCAACAAATTACTTTTGACACACAGCACAAATTG  
ATTTAACACTTCCAATTTTGGAACTATTGGATAAATAATGATGGGATTTA  
AATAAGCAATCCGATTCTACTATTACAGCATAGGGTCTCTTGTAGTCCT  
CTTAGTAAAACTATTGTGACACTTCTTCTTCTCCAAATATTGGGCT  
GGAAAGACCTAAATACAATGCAGGGATTGAATCAAATTCACACATTTTTT  
TTCTACGGAAACAACAACCTTCTTGCTTATATTTAACAAAACTAGTA  
TAGATT

Table 2

## &gt;Sequence 1342

CGTACTATAGGGAGTCGACCCACGCGTCCGGTGGTACGTGGTGCGGGATCG  
AGATTGCGGGCTATGGCGCCGAAAGGTTTTTCGTCACTACTGGGATATCCC  
CGATGGCACCGATTGCCACCGCAAAGCCTACAGCACCACCACTATTGCCA  
GCGTCGCTGGCCTGACCGTCGCTGCCTACAGAGTCACACTCAATCCTCCG  
GGCACCTTCCTTGAAGGAGTGGCTAACGTTGGACAATACACGTTCACTGC  
AGCTGCTGTGCGGGGCCGTGTTTGGCCTCACCACCTGCATCAGCGCCCATG  
TCCGCGAGAAGCCCGACGACCCCTGAACTACTTCCTTCGTGGCCTGCGC  
CGAAGCCTGACTCTGGGAGCACGCACGCAAACTACGGGATTGGCGCCGA  
CGCCTGCGTGTACTTTGGCATAGCGGCCTTCCTGGTCAAGAATGGCCGGC  
TGGAGGGCTGGGAGGTGTTTGCAAAACCCAATGTGTGAGCCCTGTGCCTG  
CCGGGGACCTCAGCCTGCAAAATGCGTCCAGAAATAAAAAGTGGGTCTGG  
GTGCGAAAAAAGGGCCGG

## &gt;Sequence 1343

CGTCTTATGGAGTCGACCCACGCGTCCGAATGCAGTGAAAGTGACACTGC  
CTGACCTTCAAGACTAGATCATCAAAGGTGCTACAGCTTCTGCTTTGGCT  
TACCTCTCTGTGCTGGGACACTCACCTTGGACCCAATCTCCCACTGT  
GAGAATTCTATGCTACCTGGAGAGGCCTTCTATAGATATTTTCACTCAAC  
AGGCCTAGTTAAAGTTTCAGCCAGCGTCAACCACCCAACATGTGGGTGAG  
TGAACCTCAAATGATTGCAGCTCCAGCCTTTGAGTCTTCCAGTTGCGG  
TCCCAGTCATTGAAACAGAGTCAAGCTGCCCCCGCTGTGATTTATCTGAA  
TTTCTGACCCACTGGGAGCATAATAAATGATTGTTTTATGTTNAAAAAA  
AAAAAATAAATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGG

## &gt;Sequence 1344

TGTACTATAGGGAGTCGACCCACGCGTCCGTCCAGAATTTCTAGAGTGGG  
TGGGCATGATTCCAGTCAATGGGGGACCGCCCGTGTCTAAGCATGTGCAA  
AGGAGAGGAGGGAGATGAGGTCAATTGTTTGTCAATTGAGTCTTCTCTCAGA  
ATCAGCGAGCCAGCTGTAGGGTGGGGGGCAGGCTCCCATGGCAGGGTC  
CTTGGGGTACCCCTTTTCCCTCAGCCCTCCCTGTGTGCGGCCTCTCCA  
CCTCTACCCACTCTCTCCTAATCCCTACTTAAGTAGGGCTTGCCCCAC  
TTCAGAGGTTTTGGGGTTCAGGGTGCTGAGTCTTCCCTTTGCTGTGCCCA  
GGTCATCCCAAACCTTCTGTTATTTATTAGGGCTGTGGGAAGGGTTTTT  
CCTTCTTTTCTTGAACTGCCCCCTGTTCTTCACTGCCCCCATGC  
CTTAACTCATAAGATTGTCCATCATGGGGGGCATGGGTGGAGCAAAAG  
GGCTTCCTTAACCCCGGCAGGCCAAGGCAATTGGTAAAGGAAGCACTTGC  
CCCCCTTCTGGCCCTTCTTAATCTTTAATAAAAAACCCGGCTTCTTAT  
TTTTTAAAAAAACCTTTTGTGTAACAAAAAAGGGC  
CGCCCCCTTTGACTTATCTTAGAGAAAAAACATTTCCAACCTTCCCTT  
GAACCTTGAACCAATAAAGAAATCCATTTTGGTTGTAACCTGTTATTTG  
CACTTAATAAGGGTTCCAAAATAACAATATCCTTCCCAATTTTCCATATA  
AGCCATTTTTTACTGGCTCT

## &gt;Sequence 1345

ACGCCTTGAGAGCCTAGGACACGGCCCGATATTACTGTGCGTTTCACAAT  
CGGGCCCTCTACTGGGGCCAGGGAGCCAGGTACCGTCTCCTCAGCCTT  
CACCAAGGGCCCATCGGTCTTCCCCCTGGCACCCCTCCTCCAAGAGCACCT  
CTGGGGGCACAGCGGCCCTGGGCTGCCTGGTCAAGGACTACTTCCCGAA  
CCGGTGACGGTGTGCTGGAACCTCAGGCGCCCTGACCAGCGGCGTGACAC  
CTTCCCGGCTGTTCTACAGGCCTTAGGACTTTACTTCTTAACAGCGTGG  
TGACCGGGCCCTCCACAACCTTTGGGCACCCCAACCTACATTTTTCAGT  
GAATTACAGGCCATCAACCCCAAAGGGGCAAGAAAGTTGTGCCCAAATT  
TTTGACCAAGATGATACATGCCACCGGCCCGACCCCTAACCTCTGGGG  
GGGCCCGCAGTCTTCTTTTCCCAAA

## &gt;Sequence 1346

GGTACTAGATTGGGTGTGTGTATTAAGAGAAAGACAGGAGTCAAAAGATAG  
TTCCAAAACCTTTTGAACAGAACTGGATGAATACTGTTTACTGAGATGG  
GGAACACTTAGAGAAAAATGCATTTGGAAAGCAGAAATACGATCAAGACT

## Tabl 2

TCCATTTTGTACATTAAGCTTGGTATGTTTAATTCATAGCTATATAGA  
GGTATTAAATTGGCAGGACAAAATCATAGCTAGAGATAAAAAATTTAGAGT  
TCACCAGTGTAAGATGATATTTGATGGCACAGGATGGACTTCTCTCTGG  
GATTTGAGTATACATAGAGGAAAGATGTGAGGATTGAGCACCAGGGGACT  
TCAACATTGACAGGCTCAACAGAGGAGAATTCCCAAGAGGATGAGGTTCC  
ACCTTTAGGACCGCCAAAGAAGACTTCCCAGACAAGTACCTGCCCGGGCG  
GCCGCTAAAGGG

&gt;Sequence 1347

GGTACTTTTAACTATTTGTTTCTTCTACGATAATTGGTTTGTGTGACTT  
TATCTACCTAGAGTAAATTTGGCAATTTGCATTTTCTCAAAATAGTTTT  
TGAATTTATTGTGTAATAATTGCTCAAAATAGTCAATTTAAACAAATTTCC  
TGTTTTACTATTTCCCTTGTTCATTTAAATTTTGTATTTGTGCTTCCT  
CCCGCGT

&gt;Sequence 1348

GGTACAAATTACTCTGTAATATTGCTTTCTATTAAGGGTGTGGTTTTT  
TTTTTGTGTGTTTTTTTTTTTTTAGCTAGTCCAGTGGTCTTTTTGATGT  
TGGTTCAGCTTAGTGGTCTCAACCCCTGGAACAACCCGTAGACCCACCTG  
GGGAGCTCTTAAATATCAGTGCCTACCCACCTTCCAAGATTCTGATT  
TAAATCCTGTAGTGTTTTAAGGCACCCAGGTGATTGTAATGTACCTGC  
CCGGGCGGCCGCTAAAGGG

&gt;Sequence 1349

CCCTTAGCGGCCGCGCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTGG  
GTTT  
TTTTTTTTTTTTTTTTTTTTTAAAAAAGGGGTAACATTAATTTTTTTTT  
TCCCCCCTTAGGGCACGGGGTTAATTCCTCAATTTTAAATTTTGGGA  
AAAAAAAAAAAAATACCATTTTTAAAAACCCAGGGGGGGTTTTTTTTTA  
AAAAAACTTGTTAAACCTATTTTGGGGGGGGTTAAATTTTTTTTTT  
TTGGGCCAAAAAAATCCCCCCTTTTTTCCCTTTTAAAAAACGGAAG  
TGGGCCTGCTTTTTAATTCACCTTTTAAAAAAATTCGGAGGGTTTC  
CCAATTTTTTTAAGGAAATTTCCCGTGGAAATTTTTTAAAAAAGGGAAA  
AAAAAAAAGGTTTTATTTTTTGTAGGGCCCCACCCAGTTGGTGGGAAA  
AGCCCTTTCCCAATTTTTTCCCTTGCAGGGCAAAAGGTTTTTTAAAA  
AAAAAAATTTTTTAAAAATCTTTAAAAATTTGGTGGTTTTGAAATTTAA  
CAACCGTTTGTAGCCCCCTTGTAATTTGTTTCCAAACCCAAAAAAGG  
TTTCTCCCCGTATTTCTTGGCGGGAACCACTTAAGGGGTATATCCCC  
AATCTGGGGGGTTTTATATAAAATTCATTGTAAACACAATTTGGGAAA  
ATAGGAAATAATTG

&gt;Sequence 1350

GGTACTTCGTCTTCTAATTTCAAAAATATAACTTAAAAATGTAAATATTC  
TATATGAATTTAAATATAATTCTGTAAATGTGTGTAGGTCTCACTGTAAC  
AACTATTTGTTACTATAATAAACTATAATATTGATGTCAGGAATCAGGA  
AAAAAAAAAAAAAAAAAAAAAAAAAAGTACCTGCCCGGGCGGCCAA  
GGG

&gt;Sequence 1351

ACAAGTATTATGTATCCATAAAAAATTAAAAAATCTTTAAAAATGCATATG  
GGGGTCAGTAGGAAAAGAAAAGAGAACCAAGAGAGCTGCAGCGGGGAGCA  
CAGCTTGCTTTAAACATGAGATCCAGCTCAGTGATCATGCGGGGGAAAAAG  
GCCCGGCATTGCTGGAACTCCTAATATTTAAAAAGATGATGGAACTTGA  
AATTTTATTTAATCTTCTCATTTTAAAGTGTGGCAATGTATTGAAGA  
CTTTGAAGCCTCTCTGCTGGTCAACAAGATGTATCTGTAGGCTGGATT  
AGTCCACAGCTGGCCAGTTTAAAACTGAATCCTGCTAGCCTTAATTTAA  
ATTTTTTAAATTTAATTTGCTTTGATTCTGCACTCCTGCTCAAAAAAA  
TCTTCAATGGCTCCCACTGTCTGCAAGGTAAAAATCCAACTTTGTCAAC  
AGTCCTTCAAGCAACCCATGACTATATCCNGACCCCAACCATATTTCTA  
CCTTAATATCAGTCTCCATCTTCCACCGCACCAGAATGATAGTTGAAAT  
GTACCTNGGNCGCGACCACCTTAAGGC



Table 2

## &gt;Sequence 1352

GGTACTTTTTTTTTTTTTTTTTTTTTTTTTTTTACAGTTATACTGTGG  
AAAGTTATTCAAATTTCAAATTTATTTACAGTGTTTGAAAAGCACACAAC  
AGAAGATCTTCATTTATGCAACAAGTCAATCAATTTGCAGTATGTATGGAA  
AATAAAAAATCTAAGGTAAGTCAAACATACAACTCTACCTCTTGCTTTCT  
CCATTAGAATATACACATTGGAAATCTAAGTTCCAAACAGTTCCTCTCTA  
CTGAAGATAGTGAAAATTTAGTGCAAGCCCCCTAATTACCAATTTTTTGGA  
TGCTTACA

## &gt;Sequence 1353

ACATTGGTTTGATCTGGAAAGGCAGGACAACCCAAAGCGGGCTGGGGACA  
GTTCCAAGTTATAGGAGGTTTTCCAATTGGCAGTTCGTTGAAAGAGTTTA  
TCTTAAGACCTGGAATCAATACAAGGGAGTGTTCTGGGTTAAAAATAAAG  
GGGTTGTGGAGATCAAGGTTCTTATTAGGCAGATGAAGCCTCCAGGTAGC  
AGGCTTCAGAGAGAATAGATTGTAAATGTTTCTTATCAGACTTAAAAAGG  
TCCCAGACTCCTAGTTAATTTCTAGTGGATCAGGAAAAAGACCTGGACA  
GGGAAGAGGG

## &gt;Sequence 1354

GGTACTTTTTTTTTTTTTTTTTGGTTTTTTTTTTTTTTTTTTTTTTTTT  
TTT  
TTTTTTTTTTTTTTTTTTAATTTAAAAAAGGAATTTTT  
TTTTGAAAAATACAAAGAATTAATAAAAAATTTTTTTTTAAAAAATTTT  
TTAGGAAAGGGGGGAAAAAATAAAAAAATTTTTTTTTTTTTTTTTTTTT  
TTTTAAAAAATTTTTATTTGGGGGGGGGTATAAAAAAGAAAAATTTTAA  
GAAAAATGGGG

## &gt;Sequence 1355

GGTACAGAACCTGCCTGAGTATGACCTCTCCACCTTATAGTTTATGAATG  
TCTTGTTGTGAAAGTGACTATAACCCAAACTTTTTTTTTTTAAAGAGGA  
TTTGGAAGTTGTATGGATTTTTGTTATCTTCACTTTACTGCATAGGAAA  
CAATCTACCTCATCATTTAAATGACATGGGTGTCGGTTTTGTAGATCTT  
TGGTTTTTTGTGAGGTTTAATTTTCAGTTAACAAAAATGTAAACATGACA  
TTCCCTGCAGATATTGTTGTATACCATGATGGTTTCTTCTTTCTTTAA  
ATGTTTTTGGCCATCAAGTAGN

## &gt;Sequence 1356

CACTTTTTTTTTTTTTTTTTTTTTTGAGTTTTTTTTTTTTTTTTTTTTT  
TTTACCCAAA  
AAAAAAATTTTTTTTACCCAAAATTTCCCTTATCCCCCTTTCCCCCTTT  
TTAAAAACCCCCCAGGTTTTTTTTTTAACCCCTTCCCCCGTTAAGCCC  
CCTAAAACCTTTCCCTGGCCCCCTTTTTTTAAAAAAGCCCCCCCCC  
CCCCCCCCAAAAAAATTTTTTTTTTTCCCAAAGGCCCTT

## &gt;Sequence 1357

ACAACACTTTAAAAAGTGAATTTTAAGCTATGTGAATATCTCAATAAAAA  
CATTTTTTAAATAAAAACAATTCCCAAAGGCCTGGAAATTCAGGAACATA  
ATTCAAAATAATTTATGGATCAAAAAATAAATCATATAAAGATCTGAGAA  
CTACAATGTAAAAATATAGAAAAAGTCATAACAATATTAGAAAAAAAT  
TGAGCTGGATAACAAAAATAGTACC

## &gt;Sequence 1358

GGTACTTACATGGAAATAAGTGTTAAGAAAAGGA

## &gt;Sequence 1359

GGTACAAAGAAAAAGCTAAGGAACGGTATGTATATTAATCCCTTTATTAA  
AAATGTAAAAAGCCAAAGCAAGATAGACGCAGATATGTGCCAAATATG  
TATTTTTTTTCTGGAACAAATCACAAGAAATGTAATAACAGTTACAGT  
GAGAGGAGCCTTTGACATCTCTTCTAAACTATTTGATATCATTTGTATA  
CTAACGATGT

## &gt;Sequence 1360

GGTACGCGGATAGGCCTTCTTGTTATTATTTCAAAGAAAGAGACTTGAC  
GTTTTATGAGTGGGGTGGATTGTAGGTTGAGCAGAACTAATGGGAGAGGT

Table 2

GCTGGCTAGAGAAAGTTAAAAATTTCTGTTAGCTTTGCATTGAGCTTTTT  
AATATCATTTGTTCAATTCACCAGTTCAGAGGATTGGGGGTGATGGGCAC  
AACAGAAATGATGGAATATAGGCCAAATGTTACAAATAGATAAAATTACC  
TGACCAGTGAAGTGTGTTCTCAGTCGCCATGGAGCTCAGATTGGACTCC  
CAAAAAAAAAAAAAAAAAAGTGN

>Sequence 1361

GGTACTATAGCTTCAGTGTGGTTTAGTAACTTAGCCTAGGAGGCCAAGA  
TGTCTCCCTAAAACCTAGTCTCTGTCCTATTTACTTTGTTTATAAGACTG  
TGACCTAACTTCCCATGGCCAATTCAATCGACTAGGTTATCTTTACTCCA  
ATGGACCCAGGCCCTTTCCAGTCAATCCATGTCCAACCCCTTCATCTCCA  
GCGTGATCACTCAACTCTTCAACTTGCCTGCTTGCTGCAGGTTAAACCA  
CACCACCATNCTGTGCTTTCCCCTAATCGCCCATGATGCCCCCAGTAA  
AAATAAACTAAACCCACTTGAAGTGCC

>Sequence 1362

CGTACATGAAAAATGGCTGTTTTTCCCCACATTAGTCAGCTCTGGATTTTG  
CATGTGTGGGGCTTTTTTTTTTTTTTGATAGTTATTTGTTTTTTATTTTA  
AAAATTTATTTTGCCAACCCAGTAGAGAACAGCTGAGCATCTTCTCATGT  
ATTTATTGGCCATTTGCATTTCTGCTGCTTATTGGCCATGTATTTATCTG  
CCATTTGCCGTCTGCTGTGAAATGTCTTACATTATTTGCCCATTTTTCTA  
GTGATAAAACACTGAAGCACATTTTAAAGACTTCTGATGATTTTTATTG  
TCAGAT

>Sequence 1363

GGTACATTTAAAAAGGTGATGCTAATACTCTAAAATGTATAAGATATAGAT  
GTAAAAAGCATTTGTAAATTGTATACTGCAGTGTCTGCTACATGGCATTGG  
ACAGGACATAATGTACAACATAAAAGTGCAACTTGTACACTTTACATAT  
CGATGAGTGAATCGGCAACTACGACCAATTTTTGTCTCAAGTCAAAATAC  
CAAGCACTATTGCACAGTCTACTGGATTTATGTATATATGACATATCTGG  
ATACTGCATGCACCACATTATTGGCGGCCCTTTAGCTAAGCTGTAGAGTG  
CTATTGTGCGACCGCTTAGTGATACTATTCTCTGGT

>Sequence 1364

GGTACTCAAACCTCTTTCAGCCTACTACTGCACACCTAGGCTATGTGGTAT  
AGCTACCTTGATATGTGGTCTGTCACTGACTAAAACTTTGCTACACAGC  
GTATGACCCTACTATTTCAGCCTTGAGAAGATGGAATGTCTGTCATTTGCA  
ACAATATGGATGAACCTGGAGGACATTAAATTAAGTGAAATACGCCAGGC  
ACAGAACGACAAGTAACACATAATCTCACTTATATGTAGAATCTAACAAA  
GCTGAACTCATAGATGCAGACTTAGATGATCCTTACCATGGGCTGTGAGG  
AGGATTATGAGGGAGGCAGAG

>Sequence 1365

GGTACTTTTTTTTTTTTTTTTTTTTTTTTACTTTATTTTACTTTAAGTTC  
CAGGATACATGTGCAGAGTATGCAGGTTTGTTACAGGTATACATGTGCCA  
TGGTGGTTTGCTGCACCCATCAACCCATCACCTAGGTTTTAAGCCCCACA  
TGCATTAGGTATTTGTTCTAATGCTCTCCCTCCCCTTAACAGCAGTTTTT  
CTATAGGTCAAAACAAATTTGGGAACCAGAATTGTCTACTGTCTTTATAT  
AAATGATCATTACGATTTGGGAGGAGGTTTTTTTTGGTCACATTTGATAT  
GATTAGTCACTAAAGCATGATCT

>Sequence 1366

ACCACAACGTTTCTACTCTATTGTGTAAGCTTTAAATACAAAAATACCAC  
AACCCTCCCGGACTOCTCCATTATTTAGTAATACTGGCTGCCCTAGTT  
TTTCAGGATACATCATGCAAAATAAGTTCTTTTATTTTCAAATTATTTTA  
TTCTAAAGTATCTTTAATTTTCTTTTGGTTATACAGCTTATAGAATA  
AACAAGTCACAAGAATCTTCATTTGTTTCTAAAGTATATAATTCTACAAA  
AGTTGTTTTACTCAATGTGAATTAATAATTTGCAAGTCTAAAAAATAAAAA  
AAATTTTAAAAAGTAAAAAAA

>Sequence 1367

ACAATATATTATGAAGCATGACCACCTTTATTTTGAACTTAGCAATTGTA  
TTGCTGGGGTTTATTGTATCTGTAGCATGTCACTGATTATTTCAAGTAGT

Table 2

TTTATAATGATTTTTTAAAAACATATCTATTTGGAATAAGATACAGCAAC  
AATCATTGCTATTGACTTGTTCACCCCTTAGTTACACTGTATGATCAAC  
ATATAACAAGATACAGTGGAATGGCCCATACAGTATATTACTGTTGTGTG  
ATGATTGGCTTTGGAAGCAGTTTGATTTTGAAATGCTTTGATATTCTAAT  
TGACATGGAACAAG

>Sequence 1368

CCCTTAGCGGCCGCCCGGGCAGGTACATATGATGGGGCCAATGCACAATA  
CTTTTATCACAATCAACTTTTTCTTTGTATCCCTATTTCAATGAGCAGTC  
AGTCTCAAGAGGTTACTGCATTTCAGTTCTAACTAGACATTTGTACTTGT  
GATCACACTACGGGAATCTCTGTGGTATATACCTGGGGCCATTCTAGGCT  
CTTTCAAGTGACTTTTGGAAATCAACCTTTTTTATTTGGGGGGGAGGATG  
GGAAAAAGAGCTGAGAGTTTATGCTGAAATGGATNTATAGAATTTTGGGA  
AATCTATTTTATAGTGTGTTCGTTTTTTTAACTGGTCATTTCCTT

>Sequence 1369

GGTACAGCTTCTCTGCCTCACGTTTCAAGCTTAATGCATCATCTTAATT  
CATCTTTCGACATCTATTTCTACTACATGCTGCTCTCTTCTCTATCTTA  
CATCTCCCAGAATGTTTTATTTCAACAAATTGCTAATCTGTGCCAGGCAT  
TGTTATTAGCAAAATGATAAGCCCTGCATGTAGCAAAGTTCCTGCCTTCA  
CTGCATATGCATTAACAGCTCTGATTAGTCCACTTAAAAACCATTTGTTCC  
CGTCATGCAGAACTCCATTGCCAAGCCCCACAACCCAGCCAGTAGGTT  
AGCAAGCTCCCTGAAGCAAGGTAAACATGTTG

>Sequence 1370

GGTACTTTTTTTTTTTTTTTTTTTTATTTTTTTTTTTTTTTTTTTTTTTT  
TTTTTTTTTTTTTTTTTTTTTTTTAATTTTATATATTTTTTTTTTTTTTT  
TTTTACCCCGGAAAAAAGGGCCAAAAAAGGGGGCTTTTATGGCA  
CAATAAAAAACCAAAGGGGGGTCTAAAGGGTAATCGGGCATTTTTTTTG  
GGGGGCCGGGAACTTTAAATCTATTTAAAGCCGGGAAAAAAGTTCTT  
TTTTAGAAAAAACCCTCAAAATTCCTCCGATCCCGGTAAAAAA  
GGGGGGGGATGGAAA

>Sequence 1371

ACTGTCGTTTCCTTCCTACCTCGTCCTCACCCACCCCGAGTGAACTTT  
TCGAGTGTGAACCTTACTTTTTTCCCGTTCTCCTCAAGGCAGTTTGAACG  
ACACAGGTTTGGAAAGGAATAGTTAACTCTCCAGTATTATTGGAACATCTG  
GACACCACCAACAAAAAATCTTAGAAAAGGGTCAATTAAGGCCTATAAAA  
AGTGCCACCTTTCCAGAAATTAATTCAGAGAGAAAAATCTTATCTGCCTC  
CTGGCAGCTACAGCGCAGAAAGTACC

>Sequence 1372

GGTACTTTTTTTTTTTTTTTTTTTTGGTTTTTTTTTTTTTTTTTTTTTT  
TTTTTTTTTTTATATTTTTTTTTTTTTTTTTTAAAAAACCCATGTACCC  
GGGCACAGAAGGTCCAGCATCCTTTGAAACATGAGTTTTTACCAACAAAA  
GCAAACCTTTACCCCAACACCTCATCTTTAACAGCAGGAAGGGAAACAAC  
CCAACCCCTTCACCTAAGAAAAATTTTTTCCCAAAACCAAGGACCCA  
TGCCCTCAAGGGTTCCACAACCTTGAAACACAAAGATTCCACAACCCGT  
GCTTTCCTTTGCCCTGGCCGACGTTATAAAAG

>Sequence 1373

GGTACAGCTATTCTCAATGGATAATTCTATAAAATATTTAAAGAAGAATC  
AACACCAGTTCTCCACACTCTCCTCTAGAAGAAGAGGAGGATGGAATACC  
TTCCCCCTTAATTTATGAGGCCAATATTACCCTGATGCCAAATCCAGACA  
AAGATATTGTCCCCCAAAATAAACTAACGATCATAGATAAATACTCTT  
ATAAATTTAGATGCANAATCTTAAGCANAATATATTAGCANAATGAATTC  
ACAATGAATAAAACATATTATACACCAAGTGGGATTTATTCTAGCTATG  
CAAGACTAGCTTGACATTTGAAATTGATTA

>Sequence 1374

CCCTTTGCGGCCGCCCGGGCAGGTACTGGGAATACAGGCATGAGCCACCG  
CACCCGGCCAGAAATTATAAATCTAACCAGGATTCCTCAACCTACAATAC  
AATGGAAATATCATATTCTCTCTATAGGGTTTTTGGGTTTTAACCCAAT

Table 2

CTATTTTAAAAGGGGGCAGATTCAAGCGATTATGCGTTTATATGAGTGGA  
TTCCTGTGTTGAATACTGAATCAAATGTTCACTGGGAGAACAAACGCACT  
AATTTGCAAAAAGGCATACTCTATGCCTTACATTAAATGTGGATCCTCTTC  
TAAAACTAGAATAAGCATCAGTTCAGTCACCCAACGTGGGAAGAAAGAAT  
AGAGGTGGCAAGAAATGAAGCTCAAGTTTGTGTTTAAAACAAAAGAAGAAA  
CTTATTTAAAGAATCTTCTGAGTTACTACATAACAACCACTTCTTCTAATG  
GCAGTTTAGCTAGTCCGAGGGACCAAAAAACAAAACCAAAACCAAAAAAC  
CAAAACGGATGGTCTTTTTGGGCCCTATTATTGGGGCTTAATCCTAAACT  
GGAAATTCTATCCTTTAAGAAAAATGAATTTGGGTAATTTTCCCAATG  
GTTTTGGTTTTTTAAAGAAAGGTTAAAATAAACCAATTTAGCCGTTTTTT  
TCTAGGGAAAATAAATTCCTTTAACCTCACCCCTTTGGAATTATGATTTG  
GTCAAAAATCAACCCGGATTTTTCCTTATTTTTTAGAAACTTTTCCCC  
CATTTT

>Sequence 1375

ACGCGGGGGATATGATTGGCCGGCGAATCGTGTTCTCTTTTCCTCCTTG  
GCTGTCGAAGATAGATCGCCATCATGAACGACACCGTAACTATCCGCAC  
TAGAAAGTTCATGACCAACCGACTACTTCAGAGGAAACAAATGGTCATTG  
AATGACCTTCACCCCGCGAAGGCTACAGTGCCTAACACAGAAATACGGAA  
AAAAGTAGCCATAATGTACTTTTGTCCGTTACCACGCTGAGGGCCGATTT  
TTTGCCCACTAACCGGTCGTTACTAGTGGAGACTAGCGACGATTCCAAGT  
TGTCATATTACTCGATATATCTTA

>Sequence 1376

ACTTCTTTTTTCTTTTTCTTTTGTATTTTTTTTTTTTTTTGAGACAGG  
GTCTCACTCTGTACCCAGGCTGGAGACAGAGCAAGATCCCGTCAATTAA  
AACAACAAATAAATAAACAATAATGCCCAACAAGGAAGAGAACGGGAAGT  
CATAGGCAATCTCATTTCATGAACATAGATTAAAAACACCTGAAGTATATA  
CATACCCACACCCCGACATGAATACATATGAGATGTGTAAATGTGAATA  
CTTACATGTATGTATATGAAAGCAAAACCAATCAAACAATGTAAATAAA  
AATAACACATCATGACTGACTGGCATTGTCCCAAGAATGCAAAGCTACT  
TGAGAAAATCTATTAATTCATCAATTTAATACTTTAAAAGAGGGGAAAAA  
GTTTATGAACATCTCAACAGATGTAGTAAAAGTATCTGATAAATGCTCTT  
AGGGTGGATAAAAACTTCTTAAGTTATAACAGAAGGGAAGTTTTTTAAGT  
TTACAGGGTTGTTTACCAAAACACCTTCAGCAAACATTACACTTACTGAT  
GAAACCCTGAAAGCCTTCTTGAAAATAGAAACAGGGGAGGGAGCCCACTT  
TTACCACTTCATTAGGATTACACAACAAATTCCTTCCAAGCCTTGAGGAC  
AGGAAAAGAACTTAAGACCTTAAATGGAAAGAAACCAAACTACTTTTTAT  
ATTGTGAATGGAGTAAACAAG

>Sequence 1377

GGTACCATATAAAAAACATTCAGTGTCAACAGCACTTTAAATTTTCACAG  
TAATATATGAAAGAACAGACTTTACACTTCTTTTGCACAGAATTATCTTT  
GCTATGTTTTAAATACTTAAGAAATAGAAACAAATTTAAGAGAGTTTTTC  
ACCTTTAAATTTTATTACATAAGCTATACACACAAAATGAAATCCTAGTT  
ATAAAAGATGCATCTAGAAGAATAATTTATAATAAACCAACAAAATGAG  
AATGTGTATCTCCAGGAATATAAATATATTTAAATGTTCTCAGTGACTGG  
CATTGCTTTATGCATTACATAAGATAGTATGT

>Sequence 1378

GGTACACAGGGGCTTGACTTTTTCAACTTCGTTTCCTTTGTTGGAGTCAA  
AAAGAACCCTTGTGGTTCTAAAAGGTGTGAAGGTGATTTAAGGGCCAG  
GTCAGCCACTGTTTGTGTTACAAAATCAGGTAACCTAAGTGCATACACTTTT  
TCTCTTTCCATGACATCAAGACTTTGCTAAAGACATGAAGCCACGGGTGC  
CAGAAGCTACTGCGATGCCCGGGAGTTAGCCCCCTGGTAATAGCTGTAA  
ACTTCCAATTTCTAGCCATACGCTCAGCTCATCCATGCCTCAGAAGTGCA  
TCTGGAGAGAACAGGTTTCTAAGCATAAAAGATGAAAGAGCAGTTGGACT  
TTTTAAAAATTCAGCAAAAGTGGTTCCCTCTCTTAGGGACAGTCAAAACCA  
AGTCACTTAGGTAGTACCTGCCCGGGCGGCCGCTAAGGG

>Sequence 1379

Table 2

ACGCGGGGTGAATGGAATGCCTTGCAATATGAATGTTAATATAATGTGTA  
AAGGGAGATTAATAAGTTGAATGATATCCTAAAAAAAAAAAAAAAAAAAAA  
AAGTACC

>Sequence 1380

ACAGTAATTTTGGAAACCTCTTTGATGTCTGGCTTATAGAAGACACCTGN  
GTTCTTATATCTGCTTCTGAATCGATCTATCGTAATGTCGTATTTTGGCT  
GAAGTATGTGAAGACAATACTACCTTACAAAGATATGTATNTTCAAAAGG  
AAATACATATCATAAAGTTTGACAAAGCCAGTGAGTGATACTAAAGTTGT  
CACGATGGATGGTGTCTATCTGGAGAGCTGGCAGGGAACAGCCAAGCCCC  
TTGAGCGCTCCTTGACAGAGCAAGAACTATGATTGATGTGTCTTACTCAC  
TTGTAAATTGCGTGATTGTGGCTCTATTTCAATAACTTTTCAGAAAGACTT  
GAGATATTCTTCTTTGATACTACATCAGAACTTTGGCAAGTACTTCAAGT  
AGTAAATTTTCGGAATATTTCTTTTAAATAATGTGG

>Sequence 1381

ACAAGCCATTGAATAAGCCTCTTCCTTTTTTTTGTCTCAAACATTCCACAT  
CCTTGTGGATTCCCCTGCATTGTTTGTATATAACATTTGATATTTGT  
TGTAGCTTGTATATGAACATAATTTCTTTAGAGGTAGTCACTGTTCTCT  
CCAGTATGACCCAGGTTTCTTGACTCTGAGTAATGCACCTTCTATAACTA  
TCTAAATTTCTATTGAAGCTTTTTGGATTATGAGTATGCTGACTTTTCAC  
GATTGGCTGGTGCATGTTTAGACTTAAATGTCATATCCTTCATGTCTCAA  
AGCCAAAATAGTAACATCTCATCTCAGAACAGAGCTGTGACCACATGCCA  
ATATATGTGTACAAAGTCTACATATGTTACATTCCCTTGGAAGTCTCCTT  
AAATGTTTCACAAATGTCAACAAGCTTGTGTTTGTATTGATATTTCCGA  
GATTGGGCACATTTAAGACAGTAAACGGGAAAGGTGGTGAAGATGCTATA  
AGAAGATGCCTGTATCTTGAGAAATTGAAAAATGAAAATCTGACATGGTTT  
GAAAAATCATGAACGGTATATATAAAGGGAGCATGTGTAGGAGCCATTTA  
AATTCATAACAGTATGTGCCCTTAAGCGTTTTAATCTTATGAAGGGCTA  
AAGAGATACATTTTCGGAATTTGACAAAAGGGATTTGAAATTAGGTCCTG  
TGGAATATTAATGG

>Sequence 1382

ACCAAATTCATTCAAGAAGAAATAGATACCAGCCTGAGCAACATGGCAA  
AATCCCATCTCTACAAAACATAAAAAAAAAAAAAAATTAGTCGGGCATGGTG  
GTGCACACCTGTAATCCCAGCTTGTCAAGGAGGCTGAAGTGGGAGGATCAC  
CTGAGCCCAGGGAGGTCAAGGATGCAGTGAGCCATGGTCTCACCCTGCA  
CTCTAGCCTGGGTGACAGAATGAGACCCCGTCTCAAAAAAAAAAGACGAAG  
TCGATAATCTGAATAGCCCTATATCTATAGAACTTAATAGTGCTGGGAG  
ATATAGGTATTATTATCCTCATTTTACAGATGGGAAAATTGAGGCTCAAA  
GAAGAAAAGTCTATTGCTCAAGGTCATGTGGCTAGAATATGGCAGAACCA  
TGATTTCAGATCCAGGTCTTCTGAATCTTATTCCAGGGTTCTTTTAGCAT  
ACCATGTTGCCTCTAAAGAATGCAGCTTCTTAATTACTAGAAAATTGTGC  
CTGGCCAATTTAAATGTGAAATTTAACCCTTTTTTTGTAAGCACTATGGT  
GGGGTTTTAGAAGCATAATTTAATGGCTTTGGAATACAGGTGTTTGGTTT  
GGGAAAGGAAAAAAAAATCTTTTTTCCAACCTGGACTTCGACCAAACCTGG  
GAAAAAAAAAACTTAAATGTTGGTGGTTTGTACCCCGGGCCAGAAACCA  
CCATATGGGGGGCACTTCTCTATTTGG

>Sequence 1383

GGTACTTTGTGTTGTTGGTATCCAAAATTAGGACTCTGAGATTCTTGTGT  
ATTGAGAGATTTTTAGTAGGAAACAGGACAAATTTGCATATGAAATGAA  
AATAGTTATTACATGACAAAATATGTAGATCTGATTTCTAGAAACTGAAT  
TAGTCCAAAACAAGTAAGAGTGGGAAAAGCAGTAAAAAGTTCTTCTTGAA  
TATTGCTGTTGTCAATCCAAAGTATTCTTATTTCTTTTAGGTGAAAAATTT  
CCATTACTCTTTGTGATATTCTCAAAGAAAAGTTTAGGATTTTACAGTG  
TTCTGAAATACTGAATCTTAATTCAATATTTCAATAGAGTATTATTGATT  
TGCTTCCTTATCAGTAGATTTTAAATTATTTATTTCTAGGCTATAGATC  
TTCTAAAAATATAATCCAAAGTAGTTTAAAAAGCAGATATTTAAACCAA  
GTATAAAGATCTTTTTTCTGGAGCATGCTATATTTAACAGTTTTTCTCTA

Table 2

AATTGGGTTTTGTTTTTGGAAACATGAAATATTTGGTCTTAAAGCAAAC  
TTTAATTCATTAGAGGGTTTTCTCGCTCAAAAAACATCTAAAAAATTT  
AAGTTAAATTGGGAAGAAACACTGGGTGAAAAAAAAAAAAAAAAAAG  
TTCCTCTCCCGGGCGGGCTCTCTAAAGGGGAATTTCAACCAATGTGGG  
GCGTTCTAGATGAGCCCCGTCTCG

>Sequence 1384

CCCTTGAGCGGCCGCCCGGGCAGGTACCTCACTCATCTCATCCTTGGCTC  
AGCCCTGCTGGTTAGTATTTAGTATTTATTTTAGTAAGATATTTGTGTCT  
GTATGATGGTCAGAGTTGAACTGATCTGGCTTGTCATTTTTCAGTAATAA  
AAAAAGTTACTGAATTTAATTGTTGAATATGATGCATATCTCATTTCATTA  
CGATTTATCAGAAACCAAGATTTAAATTGCCTAGATTTGTGGTCTTTC  
TCTTCTAAGTTCCCAGCGACTGCTTTCAAATACTATTTTCTAAATTTCA  
CCAAAGGAGCAACGAGGATAAAACAACACTCCATAAAGGCCTCTTGGGAT  
GTCAGAAATCTAAATCTAAAAGAAAAACAGACACAGAGCAAGACAATAAC  
ATCACAAGCTAAAAGCCAGAGAAATTTAAATTTACCAACATCCTTGTGG  
AGTAAGACAGTAAATATCAGCCTTGCAGCAAGACAGCTCTGAGCAGCTGT  
GGGCAAGAGGTAACCAAGTGGGGGTGCAAGGAGACTGTCTGCAGCTTGG  
GGCAGAAATGGTGGGATCCAACCTTGTGAAATGCTTCATGTTTTACAAAAC  
CAAAAGTCAGGTAGCAACAACTTATTGTATGTCAAATCAATAAAATGTTA  
CTTTCAAAAAAAAAAAAAAAAAAAAAAGTTCTAAGACCTTAGCTTCATTC  
AAGACTCAAAGTGTGTAGGAAAAAGCTTATTACCC

>Sequence 1385

CCCTTCGAGCGGCCGCCCGGGCAGGNACTTTATTTTTTTTTTTTTTTT  
TTATTTTATTT  
TTTTAATTTATTATTGAAATTTGGAAAAAATTAATAAATGAGGGGGG  
GGGGCAAAAAAAAAAAAAAAAAAATGGTGGGGGGGCCCAAAAAAGAAAAA  
AAAAAATATAATGGGGGGCCCCCCCCCAACAAAAAGAAACTGGGGGGA  
TAAAAACAGAAAAGGGGAAAAAAGATTTTTTTTCCACGGGGGA  
AAAAAAAAAAAAACCCTTTTGGGCCAGAGAGAATTAATAAGAGACACCA  
TATGTGGTTGGCAAGATTATAATACAAAAAACAAGAAAAAGATTGGTG  
ATCATGAAACCAAAATATTTGAGAAAAAAGATTATGTGGCGCCCA  
CAAATTTGAAAAAATAGAGAAAAAAGACCCCCAGGAGTGGAG  
AATCATTTTGAAGAGAAAGAAATACACCCGTAGGCGGAGAACCCGTTAA  
AAGAGGAGAACACCCCGCACGACGAGGAGGATAATAAGAGAGAAG  
CAAAACTGATCAAAAGGTGGAAGAAAAATATGAGGAGAACACATGTT  
CCCCAAAAAAGATCCTCGCCCCAAAAAATATCACAAACAGAGGAC  
GCCCAAAAAAATAAGGACAACCCGTGGGGGGGTTCAAAAAAGAGAACA  
TCACCAAATATTGGGGCCCCGCCACCCGACCTATTAA

>Sequence 1386

CCCTTGAGCGGCCGCCCGGGCAGGTACGAAAGCAGTCATAGACAGTATGT  
AAACAAATGAGTGCAGCTGTGTTCCAATAAACCTTTATTTACAAAAACCG  
GCAATGAGATGGATTTGGCCTATGGGCCATCATTTGCAAACTCCTGATTT  
AGAACAACCCTGCCATGAGTTCTTCCACAGGCTTGAAAAACAGGAAGCAA  
ATACAAAAAGTACCTGGGCCGCGACACGCTAAGGG

>Sequence 1387

GGAACTTTTTTTTTAATTTTTTTTTTTAAAGATTCCTTTTTTATTATAT  
TATTATTTTTTTTAAATAAATAATATATTAATAAATAAATATATAATAA  
ATAAAATTTATTAATAAATTTTATAAAAAAAAAATGGNANAAAAAAAAA  
AATTATATAGGGAAAAAAAAAAAAAGGGGCGAGAAAAAATTATATAGA  
AAAAAAAAAATTATAAGAAAGAAAAAAGGGGGGAGGAGGAAGAAA  
AAAAAAAAAAGTCAACAAAAAAGAGACGCAAAAAAAAAAAT  
TTTTTTAAAAAAGGGGAAAAAATTGGAATAAAAAAAAAA  
AAAGGGGGGGTATAAAAAAAAAAAAAAATGTGTTAAAAA  
AAAAACACACCCGAAAAAATGAGCGTTTTTTTTTTGGGGGA  
AAAAAAGAGGAGAAAAAATTGTGAAGAAAGAAAAATAATAGATAA  
ACTGTGAAAAAAGGAGGTGGAAGAGAAAAAAGAGTCT

Table 2

CCGCGGGAGAGGAGGGGGGAAAAAATATTTTGAAAAAGAAAATGATGAAA  
AAAAAGAAGGGCCCCGTATATTTTGGTGAAAGAAAAAAGAGAGG  
AAAAAGAGATTTTGTAAATAAAAAAGGGGAGAAAAACAAAAAGGAGGG  
GGGGGGTAAATATATAAGAAAAAGAAGAGTGTGTATAAAGGAGGAAAG  
GGTTTTAAAAAAGGGAGAAGGTGAGGG

>Sequence 1388

GGTACTTTNTTTTTTTTTTTTTTTTTTGGTAGTAAAAATATCCCAATCTC  
TTAAATGTATAGGTGAAAAATACTTAGTTTCGAAATGATTCCTTAAAAAG  
CAACAATAAAAAATACTCTTCTTCACTTGAAAGAAAAACCCAAAAGGCAG  
TGTTCATACAAAGTCATGAAGAGAATTTAAATTAAGGTTTTGGTTCCACT  
TTGTCTCAACTTTAACTTTTAACAGTTCTTTATAGGCTTTTGAAACCTAC  
TTTGAGAAAGGAAAAAAGTAGGAATAACTGTTCTTCAAAAATTTTACAA  
AAACAGTTTGACTCAGCTTCAGTTGTTAA

>Sequence 1389

CCCTTAGCGTGGTGCGGCCGAGGTACTTTTTCTTTTTTTTGAGACGGA  
GCATCGCTCTTTCTCCAGGCTGGAGTGCAATGGTGCTATCTTGGCTCAC  
TGCAACCTCCACCTCCCGGTTCAAGCTATTCTCATGTCTCAGCCTTCCA  
AGTAGCTGGGACTACAGGTGCCCTGCCACCATGCTCAGCTAATNTTGTAT  
TTTTAGTAGAGATGGGGTTTACCCTGTTGGTCAAGTTGGCCTCGAACTC  
CTGATCTCAGGTGATCCACCTGCCTCGGCTTCTCAAAATGCTGGGATTCC  
AGGCCTGAACCCACCTGCCTGGCCGATGTTGCATTTTTTTGGGTGTAA  
TACCGACCGTATAATTGCCAGGTATGCTTTTTGTGGACAAACTTCTTTTT  
GGGGGAAAAAAGGTTTCTTCAATCTTTTTCACTTTTGGTCCAGTTCCGG  
GTTATCCCTGTTTTTTTTTCCACTTTTCTTCTTGGTACATGGGGAGT  
TTTTCTTGAGGGCTTTAAAGCCAAGTCTTGGAATAATCCCGGGTAGGGGA  
ACATCAATCCCCTTTTGGGGTCTTTTTTATACCCAAACCTTTACCCCT  
AACACCTTCCGGGGTTTGAAAAATGGAAAAGATAGGGGTTTTTCCCTAAAA  
AGTTGGCCTTTCTGGTGGGGGGATGAACCGGGTTAAAAACACTTTTTTG  
TGGGCCCCCGCCCTAATTGGCAGGAATAAAAACAAATAGAGCGGCCCG  
GGGGTTTATAACCAACACCT

>Sequence 1390

CCCTTCGAGCGGCCGTCCGGGCAGGTACTCTCAAAGCTAGGGCTGATGA  
CTGAGCAACTACAGAGCCTGACTCTCTTTCTACAGACAAAATAAGGAG  
AAGACTGAACAAGAGACCCTTCTGCTGAGTACCCTTGCCAAGATGTCTGC  
ATATGCTTTGCCGACTTGTCTACTGAGTTAGACAACTTGAGATTGTTTC  
CCTTCTTAAACACAGATTTGAAATGTAGGAGACAAATCCTAGCGGATAAA  
ATGACATATCTTTAATATGAGTACTGTGGCAGTCTCACATGGAGGTCAG  
AGTAACAGACTCAATGCCTAAATAGCTGTTTACCCTGCTTTTCTGAGCA  
ATATTTAACTTATACAGACTATAAAGGAGCAGGCCAAATGGTGAGGTTTT  
TAAAGGATGTCAAAACACTGTTTTAACAATACGAAGCCCCATAGTTTAAAA  
GGATATTCAATTCCTATTCTCAACAATATGGAGAATTATCCATCTGAGAA  
TCTATTGGGTGTACAGACCCTTAGTAAAGGAGGGTCTTAAAAAATTG  
TATGGAACCCAGTTGCCCTTAATTTCTAACCATTATTTATGGGATGTA  
TCCAGATCGAGGGGCACCTTATGGGGGCCGATTCCAAAAATAAGGGTAA  
CAGGGAACCCCAAAATTGAAAAATAGGAAAAACTTGTGGCCGAAGAAAGT  
TTAAATTTTTGCCCCCTCTAATTTGCAAGGTGAGTTTCGTCCCTTTGTC  
TTAAAAAAT

>Sequence 1391

GGTACTTTGGTTGTGGGTGGAGGGTGTTTTTAAATAACAGCTTTACAGAGA  
GATATCATTATTAATTCATAGGTTTTTACTTTTTTTCTTTTTTAAGACA  
AAGTTTTACCTTCTGTACATTGAAAAATCTCCTATATTCTTGAAGATT  
TGAGCAATACATTACGACCCAGGTTTGGGATTTGCATACTATTGGAGAA  
ACTGTTTCTGAAAGATAAAACACTTCAAGAATTTGAGAAAAATAAACTAA  
AAACCCGAAACATGAACACAAAGGCACAAAAACATTGCCCTAACATTGCA  
AAAAATTACCTTAAAAATCCTGGATTTGCTTGGAAAGAAAGAAATAGTTTT  
TTTTGTTTTGTTGCAAAAACCTTTGAAGGAATGGCATGAACCTTTAAAAAG

Table 2

GGGGAACACCCTTCCAAATGGAGATTTTTTTTACCTTTAGAAAGGATTGAG  
CTTAAAAAAAATCTGGGTTTAAAAATTAAGAATTATTTTTTTTACAGT  
GGGCAAAAAAATTAAGGAAAGGTTTAAATAATTCAAAAGAAAAATTTT  
CTTTTTTGGAAAAGGGGAAAAGGTTTAAATAATTCAAAAGAAAAATTTT  
TTCCACTTTTGGTTAGACCAAAGGGGGTGGACTAAAAATGTTTTTTACCC  
TTCAAAAAAATTTGGGAATTCAAAGGGGCTAAAAGAAACCTTTTGGTTC  
TTTGGGGGGCTTGCAATCAGGGAATAAACTTATTTTTTTTGTGCCAAA  
AAAGAAAAATTG  
>Sequence 1392  
TGGCGGAATTTAAAAAATCCCCCTCTAATCAGAGGGTGGAAACCCCTACG  
GTTTTAAAGTTTT  
>Sequence 1393  
GGTACAACCTGCCCTACATTACTGCCTAAAGGCAATTTCCAGACTACACAG  
ACAGAGAGGAAATGCACATAGAGCCCAACTGTCTCTGAAAAGAGACAAGA  
GAAATCTAATTTCTAGGGGGTAGCTAGAATTTTCAGAGCAATGTCCTGGA  
GAAGAAGTTGTGCACAAGAAGATATTCAAAATCATCATGAAGGACCCCT  
TGAATGTTTGGGAGAATACAAATCTGCTTATGTATAGGGTGAAAGACCAC  
AGAGCTGATCAAAGTGCAACTATCAGGATCAAGAACAATAACCGGAAG  
GTCAAGTGTAAGCTGAATAATTCCTCAAAGCTCACATGAAGTTGCAATTG  
AGTTCCCACCCAACAGAATGAAAAGATCTTATTGAACGTGGAGGAATTTT  
AACGGACCTTAAAGGATTTTTACTGGGGAACCTACACTGGGTCTAAACA  
CAAAGGTCTTTAAACCAACCCTTAACATGGCTTAAAAATAAGCCCGAAA  
AAGATAAGCTTGTCTACAGGAACTTAATGGCCCAACTAAAAAAAAGAA  
ATTCAAAGGGTTTAAAGGAAGGCATAAAAGCCAAACGCCCAACAATTAG  
AAATTTGGAAGGTTATACTTAAATTAATAAAATACTGTTCTCCCGGGCG  
CCGTTCAAAGGGGGAATTCAAACACTTTGGGCGGTATAGGGGTACCCAGC  
TAGAACCCATATGTATAG  
>Sequence 1394  
GGTACTTTTTTTTTTTTTTTTTTTTTTTCAGTATGGGGTCTGTGTTGCCC  
AGGCTGGAGTGCACTGACTATTCATAGGGGCAAGCATTATGCACAACAGC  
CTCAAACCTCTGGGCTCAAGTGATCCTCCTGCCTGAGCCTCCCGAGTAGC  
TGGGACTATAGGAGTGCACCACCACGCCAAGCTGGCATTCTCTGTTTTCT  
TATTTCTGATTCTACTTTTAGCTTTCTTAATATGCTGATATGTTTTGTT  
TGGTATATCATATATTAACAAACAGTTTCATCTCATCCCCATCATCTATCT  
CTAAGAAGCACCCCAACCATTTACACATTAGGTAAACAATGGCAGGCATA  
AGGGAGTGAACATTCCATAGCCTCCTTTTGATAAGCCACATCCTTACCTG  
CTTTTACTGTCAAAAAGTAAATCTACATTGGGTTTTCTGCTCCTAATAATC  
AAACTTAACTTTTTTTTGAAGGAATTGGTGATCCAATAAATGCCTTCATT  
TTTTTGAAATCTTGAATGAATGACCGGATTGAATCAATTAAGGTTTTACT  
TATTAGGTTAAATACTTTTTTAAATCTTTCTTGAGAATTCAAAACCCC  
TTGGGTTTTAATCTAAGAAACCATAATTTTTTCCAAAAATTAAGAAATTT  
TTTTCTTTCAATTGCCAAGAATTTTCGCTTAAGCCCTGCCCTTTGGGGGA  
CACATTAAATTGGGG  
>Sequence 1395  
GGTACGCGGGGGCGGAACTGGGGTTGCGGCGTCTAAGTGTTTCCGGTGGA  
TTCCCAGGGACTGTCGGAGGTGTTGGACTCTGACCTGCCTACGCTGGTCT  
GGGNAAGATGTTCTACCATACTCCTCCTAGAGCACGTAAATCCTTGCTGC  
ACCTCGCGCTACTGTCTGCCCAACTTGCTCAACACGGTGAAGCAGATGC  
TCTTCAACCGAGGTGGAGGGGACCTGCACAGGGAAGTATGGCTTTGTAATT  
GCTGTCAACCACTTGACAATATTGGTGCTGGTGTGATCCAGCCAGGCCG  
AGGCTTTGTTTATCTTCCAGTTAAGTACTATGTGACTGATGAACTACTT  
GTTGAGGCTGCTGGAGCAGGGGCAACTAACTTTTTTGCCATCAAATTA  
AGTGACACATTATAATCCTTAAAGAATTCATTTCTTTTTCTGGTCTTT  
CTCTTTGATCATGGGATGGAACTTAGGCTGTTTAAATGGAGTTTCTCTA  
CTAAAAGTGAAAACGCCTTTTATACCTCCTTAAAAAATAGGATTTGTTA  
AATCCATGTTTGTGTTGGAAAAAATTTTAAATTTTGGCTGGACAGTT



Table 2

CCTTTGGGAAACTTTTTTACTTATGGGCCCCAAACCTTTGTAAAATTTAT  
CTTTTTGAAAATTTTTTAGGCCCTTATTTATAAGGGTTCCCAACCGG  
GATATTATTTTTATTTTTTA

>Sequence 1396

CCCTTAGCGTGGTCGCGGCCGCGGTACTTTTTGTTTTATTTTTATTTTT  
TTGAGAGGTATGATTCTTTCTAGAGATTTTTCTCATGGCTACTATAGAT  
CANGAATGGGTGATTGGAGATTATTAGATTCTAGGTTAACTTCTACCACT  
TTACCCTAATACATAAAACTTTTTCTAAATAAATGATGGAAGGAATAAT  
ACTTGGTTACCTGGCATTATTTTTCAGTAAGAAAAAAGCTTTACTAACCA  
CTACATTTATGGAAAATTGTAGGGGTAAGTATTTATAGGTCATAAAAAA  
CACCATAATATAACGAATCTCATTTTCTTAAATGTGAATTAAATCCTAA  
CAGTCATCTTTATAAAATGACCATAGGCTAAAATCTTACGTGTAAGT

>Sequence 1397

CACATGTGTGCGCTTAAATCATCCAACCTTTCAGTCACTACTATGTGTAA  
GGCAGTCTGCTAGGTTCCAGGAATGTGGGGCTAAGTGAATAAGATGCAGC  
TCCTTACTTTAAGTCTGGCAAGGAAGATGCATTTTTTACGTATCTTCCAC  
AGTGCATTGTGAAACATGCCATAAGGAAGGGATAAACACTGATGACAAAG  
TAATTGCCAACTNTTACTAATTTGTCAAATTCAGAGAGGTACC

>Sequence 1398

ACAAGTTGTAAACCCCTGATTCTGTGAATGTGACCTTTCTGGAAGTACGGT  
CACTGCAGATGTAATAAGTTGAGGATCTCAAGATGAGATCATCCTGGATG  
CAGGATGGGACCTAACGATAATGGCTGGCGTCTTTATAAGAGAAAGGAGA  
ATGAGATTTGAGACGCAGACATGCAGAGAGGAAAGCGACATGGAGACGGA  
AGCAAAGCCTAGAGTGGTTAACCTACAAACCAACGGTTGCCAGCTGTCAC  
CAGAAGCTGGAAGAGAGGCATATAAGATTCNTCCTTAGAGTCTCTGGAAG  
AAACCAACCCCTGCTGGTGTCTTGATTGCAAGCTTCTGGCTATTAAGAAGT  
AGACTTCTTGCCCTTTAGAACAGATATCTGTTACACACAAATGGGTAGTA  
ATTTTTTAATGTCANGCCTTAAGAAAACCTGATATATTAATGTAAGTTTCC  
CTGTGGGGCTCTACGGGCCAAATTCCTTTGGTTCAAGAGGCTTGGTAGAA  
TGGTTACAGGTACCCCTTGGCCGGTAACCACGCCTATGGGGCGAATTCCA  
ACAACAATGGCCGGCCCGTTCCTAATGGGATTCGCGACCTCGTTACAAAC  
CCTTGGCGGAAACCTGGGGCAAAACCTGGTTTCTGGGTGAAAATTGTTA  
TCCCGCTCCCAAATCCCAAACAATATAACGGCCCCGAAGGCTGTAGCTGT  
AAAAGCCGGGGCGGCCCAAATAAATTGCGCAACCACATAAAAGCGGTTGG  
CC

>Sequence 1399

GGATAAATAACTTGTACCCTGGGACTTTAAGGGTCGGGCACCGGGAATA  
GGCCACCTTAAGGGGGTTATCCGTGGGTTCACACCTCGGGGATAACC  
CCAGAAAAATACATTTTTGCCAAAGGCCGCAAAGGCCCTGAACCTTTAAAA  
GGCCT

>Sequence 1400

GGTACTTTTTTTTTTTTTTTTTTTTTCTTTCTTTTTTTTTTTTTTTTT  
TT  
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTAAAAAAATTTAAAAAAA  
AATTTTTTAAAAAAATTAAAAAAGAATAAAAAAAGGGAAAAAAA  
AAATTGGGGGAAAAATTCAAAAAAGGTAATAAAATTAAGGG  
AAACATTTTTTAAAAAACAAAAAATTCATTTTTTGGCGGGCT  
TTAACAAAAAGTTTTGAAAATCCAAATTTAAAAAAATTTAAAAAAA  
AGGTTTTTTGAAAAAAATTTGCAAAAAATTTAAAAAAGCCCCCCCCA  
AATTTACCTAATTTTAAAAACCTTTGGAAAAAAAGCCCTCCCAATA  
AAAATTCAAAAAACCCTTTGGAACAAAAAGGAAAAAAA  
AATTGGTTATTTTTAAAAAAATTTTTTTTGCACATTTCAAAAAAA  
AAAGAAATCCAAAAATTTCTTATAAGAAAGGAACCCCCCGGCCCC  
CCTAAAAAAGAAAAAAAAC

>Sequence 1401

GGTACTCAATCAGATGTAAATCTTCAATGTAAATGCTCTGTCATGCCA

Table 2

TCCTACCTCCTGTCTCCCCACCCCCTCACACACACCTAAAAGCACTC  
>Sequence 1402  
ACTTTTAAAATATATATTTTCTAATTTTGAAACATTCAAGCTGCGCATAA  
TGGTTCACACCTGTAATCTTGGCTACTTGAGAGGCTGAGGCAGGAGGATG  
GCTTGAGGCCAGGAGTTCAAGACCAGCATGTGCAATACAGTGGGACACCT  
TCTGTATTTAAAAAAAAAAAAAAAAAAAAAGGAAGGAAATGTTCAAAT  
ACACAGAAAAGTTGAAAGAATATTATAAAGTGAATATCTGCATACTTTTC  
CCCTAGGTTACCTGTCACTTGACATGCCTTCTGAATTGTACC  
>Sequence 1403  
GGTACTT  
TTTTTAGAAGGGTGGTATTATAACATTTATTAATAATGCTGGGGGTTA  
ATAGAAACCGCCAAGAACCAAGAATTAATAATGCAAGCTATTTAAATCC  
CACTAAACCCAAAAGGGTCTAATGTTTTCTATTCACTAACTAACTAAA  
CCCCAAAAAGACACTACACCAATGTTATAAAGTTCCTGCCCGGGCAGG  
CCGCTCGAAAGGGCT  
>Sequence 1404  
ACTTTAATTTTTCTATTTATGAATTGCTTATTTGCTTTGCTCATTTCTC  
TAGTAAGCTGCTTTTGTTAATTTGTGAGTAATTTATTCTAGGTATCAGGC  
CTCTGGCATGTTTCAAATTTCTAGTGTCTTTGTCAAAGAGAAATTTTAA  
ACTTCAACATAAGTAATTTGTCATCTTTGTCCTTTAGTTTTGTGATTTT  
AAGGACATAATATCTATTACTTTAAAAGTATTGAAAGCTGTATGTATATT  
CTTCAACTAGCCACCTTATTTCTGTTCTAGAGTTTGAATTTCTTAACTCC  
AAAAACACACAATAATTTTAAAGTCTTGATCAAACCTCTGTTATCTTCTG  
CATAGTCTATTTTTCAGCATTCATTAAATGAATTGAGAAAAAGGAGGTA  
CC  
>Sequence 1405  
ACCTGGCTACAGTAAATGCTCAAGGCCCTTTGTTATTATTTTCAGATGGTC  
AAGAATAAATGTTTTTCAAGGATCTTCTTTTGTAGACAACCTGTGTAGTC  
ACAGTTTAGAGTCGTAAATTATCTGCCTGGCAAGATACTTT  
>Sequence 1406  
GGTACATACAATAGAGTATTATTCAGCCTTAAAAAGGATGAAAAAATCCT  
GACATGCTAAAAATATAAATGAATGTTGAGAACATTATGCTAAGTGAAATG  
AGCCCATCTAAAAAGGCAAATACTGTATGATTTCACTTAACTGTGATATC  
CAGAGTAGACAAATTCATAAAAAACAGAAAGTAGAATAGAGGTTTCCAGGG  
ACTGGGAGTTACTTGATATAGAGTTTCAATTTTGCAAGATAAAAGAGTTC  
TGGATATTGGTTGCACAGCAATATGAATATACTTAACTACTGAACTGC  
ACACTTAAAGATGGTTAAGATGGTAAATTTGTTAGGTGTTTCTTACCAC  
AATTTAAAAAAAATTTTAAATTAAGGAATTAATAAATTTACAAAATACT  
ATTCATCATTTGTGTTTCCAGTTTAAATTCAACACAGCAGTATTTACAGGT  
ATAGTAATTAACCTTACTTTTCAATTTGAAAAGATGTCTATAGCTTAATAAAT  
ATCAAACCTCTTATTCATACTTTTGTGATAATCTAGGAGAAACCAAGCAC  
CCAAATGGAAATGGGGTTCTCACTACTTCACCTGCCACCTTCAAATAGA  
AGCCGGATTTCACTACCTATAG  
>Sequence 1407  
GGTACTAGAAGACCTTCCTCGCCACTCTCTCCACATGAGAGAGTCAGCTG  
CCCTTTCTCCTGTGCCCTCTGCAGGAAGAACTCTCTTGCATGGCACATCTC  
AGCTCCTCATTTGAGGGATAGTTTCTTTGATAAGAAACCTGGAGTCCATT  
TACTCTGACCTCTCTTTAAATCTATATCCAGAGCCACTAGCCCAGGAAAA  
ACTTGGGTGACCCGTAATTTCTCTTCTCCTGCTGTCTTTTGCTCTTACG  
CCCCACCCCAACTCCCTTAAATTTTACAGGCTTATGACAGTTTGTATGT  
GCTCAGCCAATGAGCAGAAAACCTGGAAAGAATTTCTGGACTTTAGCCCA  
CCAGTTTGTCTGGTTGACTAACCTGCTGAGAGCTAAAATTTGGACCCATT  
GCCCTGCTCTCAGGCAGTCTCCTGGGGCAGAGTATGCCACCATCCGAA  
TATCAGGCACTGAGTGGGATGTGGGTGATGCTCACATGACTGGCTAGAGC  
TTTGGGGGTGGGGAGGGGGGGTAATACTACTATTTATTTGGCCATGATCTCT  
TTACGCCTTCTTTTATTTTAAATTAATAAATGATCCAATTAATAATTC

Table 2

AGCN

&gt;Sequence 1408

GGTACCCTTTATAGGAACCCCTCAAATTAATAAAAAAATGTCTTTTAATGGA  
TGAGAGGGAACCACTATAACATGAGTCCAAGCCCAGAAGACTTCTGTCTA  
TACAATATTTTTTTTAAATTTTGGAGATAAAAAGCTTTAAGAACTTTTTG  
AGTTAATTATACTCATAAAATGAGTTTCTTTAATAAAATTAATTTTATTG  
TGTAATATGTATTATTACATAAAATGTGTTTTTGAATCAATGCAGTTTGG  
GGATGAATATAATTAATAATATGTTTAATAACTTAGAATCAACTAATAAA  
AATTTAGCCACACTTACAAGGGGGAGGAAGTCCCTAGTTTAAATGTATA  
ACTGAGTGGTAGATCAGT

&gt;Sequence 1409

GGTACTATGTGTGTATTGTTACTATTACAGTTAATCCTTTCTTTGTGTGA  
GCTTGTTAATGCAGTGAGGATTGTAGCACTGTCCACTGAGTCTCTGTGCA  
ACAACCTAGTGGTGTGGCAGGGGTTTCCGGTGTCTGGCTCTGATCTTGGA  
CGCTGGATAGTCGTCTGAGTATCTTCAGTGCCCAAGGCGACGGCTTTGGT  
TTGGGTACACAGGATGGTGTGGTTGGCCAAGTGCTGCCTAATAGTTTAGG  
AGAGGATACTTATTTGCTGCTGCATGATCAACACTGGTAGATTATGTTT  
CTGAGAACAGATGGGGCACACAATTACTAGAGCGCCCATTAACAGGTATA  
TACAAGTACCTAGCACGGGCGGCCTGCTCGTTGGGCGAATTTCAAAT

&gt;Sequence 1410

GGTACGAGCCTATAATCTCACCTACTCGGGAGGCTGAGGCAGGAGAATTG  
CTTGAACCCAGGAGGCAGAGGTTGCAGTGAGCCGGGATCATGCCACTGCA  
CTCCAGCCTGGGCAACAGAGCGAGACTCCATCTTAATAAAAAAAAAAAAAA  
AAAAAAAAAGAGAGAGAGAGAAGGAGGGGAGAAAGTGAAGTCATAAGTGT  
AGACCACTCCTTCTGAGGGAGAATCCACCCACCTTCTCCTAGCTTCTG  
GTGGTTGCTGGCAATCTTTGGCGTTCCTAGCTTGCAGATGCAGCACTCC  
AATCCCTGCTTTCATCTTCTTAGGGTGGTCTCCCTATGT

&gt;Sequence 1411

GGTACTTT  
TTTTTTTTTAAGGGAGTAAGTTTTTTAATCCACTTAAAAATACAAGAGCA  
CAAATCCACATTTATTTATTGATTTTTTCGTTAGTTTAAATCCTTGAGGGG  
TACTTTTTTTTTTTTTTTTTTTTTTTTTTTGGGGGAAGATAGAAAATGTGGGC  
TGATAATTGGCACATCAGTGTTTAATCCGCCCTGCTTCTGCGGAGAA  
AAATGTTTTGATGTTAATACTACCAACATTAGTTCCTTTAGGGGGTGAAA  
GATTGCCCAATGGGGGGGGAGGAGATCAATTTTTTGGGGGGGATTTTGG  
AGGGGGGGGGGTGATCAGCAACAACCTCTTAATAAATTGGCGGCTTTTATGA  
CGCCTACTGGGGGTGATAATTTTCTACTTTTTCTACGAGGTTTTTTTACT  
AGCGAAAAAAGAGTTGCTCTTTTTTGGACCAACAAATTAATCAACGAGGT  
GTTTAAGGAGGTTTTGGCGGCATATTAGAAGGTCGAATATTATTTTGGT  
GAACACCCTTTATCACCATGCTGGGTGTGTTTGTCCCCCTTATTGCTGG  
CGGGCGGT

&gt;Sequence 1412

ATTGCCCCCTTTTCGAGCGGGCCGCCCGGNGCAGGTNACGCCGGGGGGTGG  
AAAGAAAAGTTGCTTTTGAAATCCAGCCTTTCTTTGGGGGTGCAGGAACCT  
ACCGCTGGGACCATCCTGCTTTTTTCTTAGGGAAAAAAATACCCCTTTT  
GGGTAGGAAGGCCCCCAAGAAAAGGAAAAATTTAAATCAAAGCCCCC  
AAGAAAAATCCCCCACAAGTCAATTGGCCCTTTTTTGGGGAAAAA  
GCCCCCCCCAAAGGCCCAAGT

&gt;Sequence 1413

ACTTT  
TTT  
TTTTTTGGGGGGGGCTCCCAAAAAATTTTTTGGGGAAACTTCCCAAAAT  
TTAAAAAAAATACCGATTTTTTAACTCAGGAAAAGTTAAAAATTTTTTA  
AGGCCCTGAAATGAACCAAAAAAAATTTTTTTTTTTTTTTTACCACCA  
AAACCCACAAAAATTTCTTTTATAAAAAAAAAAAAAAACAACACTAGT  
ATGAACCAACCTAGAGGGAAATTCACCCCAAGTGGGGGGGGTAAATAAGT

Table 2

AATCCCCTCCACAGACACACATTGGACAAAAATAGAAAAAACTGTTTC  
TGAGAAAAAAATAATTGCCCGAAAACTCAAACAAAAAACCAGAA  
ATAATAAATTGGACACCCCGGGGCTCACAAAAATGACACAACACTCATT  
ATTGCGGTAGCCCAACCCGACCTTTTTAAAAAGAGAAACACTATTCTGCC  
CCTTTATTTAATATAATGCACAAACCCCGAGAAAGAGGGTTTTCAATTT  
GGCCCCCTCN

>Sequence 1414

GGTACGCGGGTCAATTA

>Sequence 1415

CCCTTCGAGCGGCCCGGGCAGGCACAACCTTTCAGGATGCAGTTCTT  
TCATGACCATAGTGTTTTTTTCTATTACTCTTTCACCTACTCACAGGA  
TTCAACCCATCTGACTCATCTGTTCCCTCCCTCCAGACTCTTCTTGATCTT  
TATTTTTTTAATTTACCAGAGAAGAGCAAGCACGTGAGCAGTGAATAACT  
TGCAAGGATGCAGACTTTTTTATTTGCGATGCTACTTTTATAAAAAACA  
ACCGTAACATAAATAACTCTTTAATGAAAACTCAGAAAAATATTAAATCT  
ATTCTTAAAAGGGTTTAGAAAAGAAAAGAACAGCTGTTAGGTTATTTG  
ATTTTCAAGTTTATCAAATAAAATTCAAATAGAATTGGCAAATCTTTAAT  
GGCATATGAATACTTCTATCACTTAGTAATTAATTTGAACAGAGATGTTA  
TTAGGGTCCCTTAGTATCACTCCATCCTTTCCCTCCATCTTTATACAAAA  
AGAACATACAGAAATTTAACAAGATATATGACTTACTCATATGTTTTAT  
AAAAAGTATCACCTAGCAGGTGTCTTCCATTTAATCTAACANAGGTTTAT  
GTAGCANAAGATACATGAATGAAGCCCTAATCACAGAAATCTN

>Sequence 1416

GGTACACGTGTTTTCTGAGTTCTGGGCACAGCTTTAGCAAATTAATCAA  
ACCTAAGAAGGGGGTCATGGGAACACTGACTTGAAGCTGGTTGGCCAGAA  
GTTCTGGATGAGGCCTGGCCTTACAACCTAGTGTCTGAAGTGGGGCAGTC  
TTGTGAGACTGAGCCCTCTCTCAGCCTGTGGGATCTAATGCTATCTCCAG  
GTAGATAGCATGAGAATTGAATTGGATTAGAAGGTGCTCAGCTGGTGGTA  
TCTTCTGCAGAACTGATTGCTTCTTGTGGTGGGGAGAAATCCCCACACA  
TTTGGTCACAGAAGTCTACTGTGTTGATGATTGTGGTGTAAAGAGCAGAGG  
AAAAGCAATTTGATTTTTCTCCACAAGGGGAAGAAAATGTTTCATGATTC  
AACTAATGATTTACCTTTTCAATTGTAAGGTTATCATGCTCAAGTATTAATG  
TAGGAAGGCTNTTTTGATGCAAAGTGTGTGTGTGTGTGTGTGTATATA  
TGTGTGTGTTGGAGAGGGCTAACTTAAAAAGGGGAATGTATAAGGAAGA  
AGAAATGGTGTTCTAAACTTAANACCCATNTCATCTGCTAAATCGTCCTA  
GTGAATTN

>Sequence 1417

GGTACAGATCACACCTTTAAGATGGTCCTCCAAACAAAAGATTCTACAAC  
TTTAGTTATTTAGAAATTAGCTTTGAGACTTTGGGCAGGTCACAATTTTC  
TCTATCTCCTATCCTGTAACCTCAGAACCCAGACACACTACTAACATCATA  
ACATCCAAACTTGGTTTTTGTTTTTTTTAAACAGATAAAAAATGTGACTG  
GGCACAGTGGCTCATGCCTGTAATATCAGCATTTTGGGAGGCCAAGGTGG  
GAAGATCGCTTGAGGCCAGGAGTTTGGAGGGGCCTGGGCAACATAATAT  
GATCTCATCTCTACAAAAAAGGAAAAAAGGCAACATTAGTGG  
GGTGTGGTATTGAGCACTGTAGTCCAAGCTACTCGGGAGACCGAGGCAGG  
AGGATTGCTTGAGCCAGGAGTTCAAGACCAGCCTGGGGGAAAGTTTCTA  
GTGGGCTGCAAAACAGCATCTAGCCATTGTCTCTTCAATGT

>Sequence 1418

GGTACTAATTTACACCAACAGGTGAAGTTTCTAGAAAGAGTCGTCAACTG  
GTAACATGGGATTAGCTGCTAGAGGGACTGAGGACTCTAAAGAGAACATA  
AGCAGCAAATTGCAAGAGCATCTGTAACCTGCTGGGCTAAGGCAGGGGACC  
CAGGAGGGAGCAAATCCAGGAATGGGGTGGCTCCCCAGGGCCGAGATCCA  
GACCTCATTAAACAGGATTTGGTCACGGCCOACTGGATAGTGGGGAAGCC  
TGTGGGGTTGTCCATGTGGTGGCTGGCAAGCAGGGGCCCTGCTTTCTGGGG  
GTGCTGGTGGAAATCACTAGACAGTTACCCTGTGGGTGCCTGCAACACTT  
TCTGGGCGTTATAAGGAAGATGGCCTCTAGTGTGCTAGTGGAACCTCTCTG

Table 2

GAAGCTACCTGGAGGGTGATGCCAAGAGAATTTGCTGGGAAGCCATGCTC  
TGGGGAACCTGGTGGAACCTCCCTAGGAACTGCCTGTGGGTATGGTGCCAC  
TGAAATTCACCTGCGAAACCTCCTTCTGCAATTTTCTTTCTCCTTTTTCC  
TTTCCCTTTTTTTTTTTTTTTGGCTTGCAAAAAA

>Sequence 1419

GGTACACATAAGTTTCATTCTTGGCTTTTTAAATTTTATGGAAAGACTAAA  
TACATTTGTGTCTATTAATCAAAATATGAATTTAGAAGGAAATAATTTTG  
TGTA AAAAATTGTATGTGGTAAAAATTTTACCTAATTTAAAAATTGTTGTTT  
CATAATTTTTTTTAAAAAGAAAAATTACAGAAATAAGACTTGGGGGGTGGG  
GGTTGAAAAGTGGTGAAAGAACTAAACAAGTAGAAGAGGATTTCTAAAGC  
ACTGGTCTCATGAAAAAAGTTTCATGTGTGACTGGGTCCACTGAGATTGA  
AAAGAAATTGTTTATACGATATTCTAAAAATTAAATGTTGCTGTCAGGGA  
TGACATGATACAGGACCAGAGTCTGTGTAAACAACAAAGTTTCTTAAAG  
TATTGATACACGCTTTTTAAAAATTGCAAGAGGTTTAAAGTTTAATTCAAA  
AATCTGTTTAACAGCCATTTTGT

>Sequence 1420

GGTACACCTCAGAGAGGACTTGTATCTAGACCAAGAGGACTATGCCTGTG  
GGCCAAATCTAGCCCAAGGTCTTGT TTTTGTAAAGTCCCTGTGAGCTAAG  
AATAGTTTTCATACTTTTTAAAGAGAGAGAGAGAGTGTGTGTATGTGTGT  
GTGTGTATAATGTGACAGAGACTTTATATGGCCCTCA

>Sequence 1421

GGTACGACGTAACCTCCAGACATAGGCTTTAGACGTTCTCATGCCACCCTA  
TCTTCAAAACCACAGAGAGTTTCATGAGCCAGTCTTGCCCATCTCCAATCA  
GGGAACCTTCTAAAATAAAAAATCTTAGCAATCTCCTTGGCCCAAACTTCA  
CCCCATCTTGGAAGGGGAGGGGAGAGAGAATGTTCTGATCTATATCTGATG  
AGGGCGTGTGGTTGGGACCTGAGCATCCTCCTGGTTGGGCTAGTGATGGG  
GAGAGAGGGCTGT TACTCACGACTCCCTCCAACAGAATACCAGAAACAGG  
CAGGCAGCTCAGGTGTATGTAAGGATGTGAGGCCAAGAAACCAGCCCTCA  
CCAAGTTACCCCTGTAAATCCTTGTCTCCCATGCACCTCTACTTTGAGT  
CAGAAATGGATTTCATTGCAGGCTCAGTTGTTTGTATTATGTGAATGAACT  
GAACGTAACCAAGCACCAAGAGAGCCCTAAAGACACAGTAGACCTCCTGT  
AGAAGGGCTCTGATGGACCTTCAAACATTGCTCCTCCAACNTATGGTG  
ACACAAATCACCTGTGCATGTAAAAATGA

>Sequence 1422

ACCAAATCTCTTATCAGTCAGGGTTCAACCAGAGACACAGAACCAGTAG  
GAGACACAAACCCAGCAGGCACAAGAAAGGAGAACAAACCAACACGAAA  
CCAGGGATGAGTAATCGGAGGGGAGCAGCAAGCACAGGGAAAAGATGAC  
TGGGAGTCAAGAACTTGGGGTTTCAGTCCCAGCTCTGCCCTGTCAATTTT  
CCTCACCTGTAAACTGGATCAGAAATCTTACAAAAACAAAAACAAAA  
ACCTCTTCAGTATTTCCCTCAAACAGGATCCTCCTCACATCTGTATTAT  
ATTTAAAAAATAAAAAACAGAAAAGAAAAAGAACCAGCATGACATCATTAG  
GTGTGTGTACC

>Sequence 1423

ACATCATAGGACTAGTCACTTGTGCTTTCATGGATACTGCCTGGGTGGGG  
GTTCAACAACCTTATAAGTTAGAGAGTTTGAGAGCCAGTGGAAGTAAGT  
GGAAGTTGTTCTGAAATAAGCCCTGGCAATTTTCTGCAATGAAAAGGAG  
CAGAGGTCATTTTCTTATAATGCTCAGCCTCAGAGATAGAACACTGCCCG  
CGTACTCTGGTTCCGGTTCAAGTGAGAGGCTTTTCATGAAAATCTIAGGA  
TTGAAGAGCTCTAAGTTCAGGATATCTCAATGTTTCAAGAAAGCCTGACTAA  
AAGAAGCCAAACCAAAACCATTTAATGTGAACACAAACCTCTTTTCTTT  
AGTAAGTTNTACTTTTAAATACAGAGTGAAAGAAAAATAAAATTTAATAGG  
CTAAAACAAGTCAAACACCCATTCTACACTTGATAAAACCTTCACAAAAG  
TCAACTGAAGTAATCCGGAGCTGAAACTGAATTGGGCGGATTTTCAAATG  
AATCACAAAAGTCATGTAACACAAAACAAAGTCGATTATATTTACACACT  
CACAAGCCCTCTAAAAATGTGCCCAAGAAGCATTACCTTTGTTTGGC  
CATCTGAAGATTTACATTTTATTTTATAGATAGCTTAACATTTTATTGA

Table 2

GGGGTTCTCTACATGCGGTATGGTTTGTCTTGGCCCGAACACCCTAGGC  
GAT

>Sequence 1424

ACTANTTTTTTTTAAAAAAATTTTTTGGAAAAAATTTAAAAATTTATTTT  
TACTTACTTTTTTATTTTTTATTATATTAATATAATATTTTAAGGCAAA  
AAACATGCTTTAAAAAAAATTTATTTAAAAAATCCGGGAAAAGGTTTAA  
AAAAAAAACCTAAAAATCATTTAAAAAATTTTAAACAAAATTGTTAA  
AAAAAAAATTTAAAAAAAATTTGGGTGTTCAAATTAATTTATTAATA  
CAAAAAAAACCTCTATCCAAAAATTTAAATTTTAAAAAAAATTTAAAAA  
AAAAGCTCCTTAAAAAAGGGGCTTAAAAAAAACAATGTGAAAAAAAAT  
CCATTTTATACAAAATAAGTTTTTGTAAAAAACATAACTTGAACAAAAA  
AAAACCCTGGAATATTTAAAAATAAAAAATTTAAAGTTCTCAAATAAATC  
CAAAAAAAAATTTAAAAAAAATGTACAAAAAAAAGTTCTTTGTCCAA  
ACACAAACTAAAGGCAAAAATTTCAAAAAATATCGGCAGTAACATAAGAA  
GACCAAGTCTGAAAAAAAATCGGAAAAAAAATCAATTCATTC  
TTTGAAAAAAAATAATCTCCCAAAAAATCAACAAAAAACTACGCG  
AAAAAAAATTTGAAAAAACGAGCGCTAACATGACAAAACTCAACAA  
ACAATAATGTTCCCTAACCAAAA

>Sequence 1425

GGTACTACCATCTTAACAATATTAAGTCTTCTGATCCATGGCCACCAAAT  
GTCTTTCCACTTATTTGGGTCTTCTTAATTTCTTTCAACAATGTTTTGT  
AGTTTCCAGAGTAAAAGTTTATGCTTTGTGGCTAAAGTTATTCCTATCA  
AATTGTTTTCATGCTATTGTAAATGGGATTGCTTTCTTTTCTTTCTTT  
TTTTTTTTTCGAGAGAGGGTCTTGCTCTGCTGCTCAAGCTAGAGGGCAGA  
AGTGCAATCTTGGCTCACTGCAACCTACACCTCCTGGGCTCAAGCGGTCC  
TCCTGCCTCAGCCTCCCTAGCAGTTGGGACTACAGGCACATGTCACCCAA  
AAAAAATAATNTTGTATTTTTGTAGAGACAGGGTTTCACCATGTCCG  
CTAGGAAGGTCTTGATCTTTGACCTCGTGATCTGCCAGCTCGGCCTTC  
CAAAGTGTTAGGATTACAGGCGTGAGCAGTTTCTTTTGGTATTGCTTTA  
GAAATGGAATTTCCCTCTGCTGCCCAAGCGGGAATGCAAGGTGTGAACCT  
AACTCACTGAACCTTCACCTCTGGGTCAAGTGAATCTTTTGGCTTAGA  
CCTCCCAATACCTGGGATTACAGGTATGCGCCACCTTGACAGCTAATTT  
TTGATTTTTAAGAAAAAAGAAGGTTACCTTATTGGCCAGCCTGGTTTC  
TGATTTCCAACCTTC

>Sequence 1426

GGTACGCGCTTCAGGGCCCTGTTCAACTAAGCACTCTACTCTCAGTTTAC  
TGCTAAATCCACCTCGACCCTTAAGTTTCATAAGGGCTATCGTAGTTTTT  
TGGGGTAGAAAAATGTAGCCCATTTCTTGCCACCTCATGGGCTACACCTG  
ACCCCGCGT

>Sequence 1427

ACATATTGCTTAGAGCAGTGCTTTTCAAGATATGAATCATTTTCTAGAATGGA  
TTATAGAAGGATGGGAGCTTTAGTATTTAGTAGTTTCTTTCTTCTCCCT  
AAGTTTACAATCCATTTTAAAAAATGAATGAATTAAGTATCTCCGAAACA  
AACTGGCAATTGCTCTGAAGACAAGTTTAGCAATTTCCGTGAAATAATTC  
TCTGGCTTCGGCCAAGGCCACTGATTGATTTCTAAGCAAAACAACAATC  
CCGTCAGGATCAGGAATGATGGCAGAGTGGCCCTGTTGGCTTTGTAGCTA  
AATTGTGCTCAGCCAGAGAAGAACCACGACCAACAGAGCCCTAAACTGAA  
GTCCCAATTCTGTCTACTCTACCGTGCTGCACAAAACCTAGTACC

>Sequence 1428

ACAGTCTTATTTTTCAGCCTAAAGAAATGGACACTTCTCAGCATAGGCGGA  
CGTGATTGGTTGTGGACAATCCTTTTCTTAACCAAGGATCCATAATATCAC  
AGACAAGGTAATATAGCACTGTGAAGGATGTGTCTTTCTTCAAATGGAGC  
CATGAGAGATGGTGGTTTTTAAAGTTGATTTGATGTTGGATGTAAGT  
CCTGTGGGAGAGAAATTTTTTAAATAAAAAATACTGTTTAAAGTGTCTC  
TTCTAACTTGATCTCTACCTTTTCCCTCTCCACTTCTAACTGCCCCCA  
CCAGCTACACTTTCCAGTTTGAAATAATGAACAAATCCTTTTGCTGACA

**Table 2**

GACCAAACCTTAGTTCCTGTGGGCAAATGAGGGGTTTTTTCCCCCAACA  
ATGAACAATTTTTTTGAAAAAGTCTCTCAAAGATGTTCTTATTGGAATAA  
CCCTTCTTAAACCCAAACAGCCTAAATGATTGGATAAATGTTCCACAAGA  
TCAAAGAGCCACCCAGGAATTTTACAGCTGGACTTCATTACTTGATTACT  
TTGCAAAAATAGAAGCCAAAGCTTGACTTAACTGGTAATAGACTTAAAAT  
TTGAGTTTGCTCTTGGTGGGGTGCTTATCCCCTTTTACATGACAGAAGT  
GTTGGAGTAATTTTATGTGGCCTGGGTTGGATGGCTTTTTTTCTCACTA  
TCCAATAATTTTAG

Table 3

&gt;1.1

GCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTGGACATACTGAGAGAA  
TTTGGAATTATATGTTATGGTAGAATAAAGATCGAGGTCCATTTTCTAT  
ACATGAAAATTTAAATATTTAGTTTGGGATTTGAGACTTCTATTAGGCCT  
CTGTATTTCTTTCTAGTTTTTCCCTACCATTCCTTAATCGGAGTATCCA  
AGCCCAATCACCTGTATCCTATGTCCTAAAGCATCTTGAATTGGTTGTT  
CATGTTTTTCTTCATGTGGAGTGTCTTTTGCCACCCTCTTAGCCTATCT  
GATCCCACTTAGCCTCTGAGGTTCTGTTAAGTTCTCACCTTCTTTATGAA  
TTTTCCCCAGCCATAATGATCTTTTAACTCTTTGAGCTTTTACTATTT  
ATACTCTTTACCTAACCACTAAATGGTTTTT

&gt;2.1

GGCGGCCGGAAGAGCAACCGAGATGAAGGTGAAGATGCTGAGCCGGAATC  
CGGACAATTATGTCCGCGAAACCAAGTTGGACTTACAGAGAGTTCCAAGA  
AACTATGATCCTGCTTTACATCCTTTGAGGTCCCACGAGAATATATAAG  
AGCTTTAAATGCTACCAAACTGGAACGAGTATTTGCAAAACCATTCCTTG  
CTTCGCTGGATGGTCACCGTGATGGAGTCAATTGCTTGGCAAAGCATCCA  
GAGAAGCTGGCTACTGTCCTTTCTGGGGCGTGTGATGGAGAGGTTAGAAT  
TTGGAATCTAACTCAGCGGAATTGTATCCGT

&gt;3.1

GGAGAGGAGTCCTTTACTTAGAGTCAAGCTGAAGGAGCATCACAACCCCA  
AAGACTGTTATGTTGTGAAATTTAGGCTGTGTTTTAATAATACTGATGAT  
GATAGGATGAAATAGTAATTTATTGATTACTATATCTACTATATGTCCGT  
AAGATAGCAGGGTCTTTATACTCGGAATCTCATTTGATCCTCATAGTTTT  
TATTGGTTATTATTATCCTCATTTTACAGATACAGAACTGAGGCTTCAG  
AGAGGCTGTGTAATCAAGAGTTTGTATGCCTTTCATCTGAGGAGGTTGAG  
GACAATCCCAAGTTAGAAAAATAAATGTCTTTAGCATTATTTTCTTAA  
TGTTTAGAATATTAATAAGTTACTCAGATAATCTATTGGAATTTCTTCAT  
GGCAGGGGGAA

&gt;4.1

GAGGTACTCAGTTTCCTTATCTATAACATGGGGATAATATTCGTAGCTAC  
ATCGTTGTTATGAGGATCAATATCTGTAAAGCTCTTAGAACATGCATTTT  
TCTTGACT

&gt;4.2

CTCAGAAATTAAGGCAAAAAGTCTTACTGACCATGTAAAGGAAATCCAAC  
AATTATAAACAGTCTCTGCCTTTAAGGAGCTTATAGTCTAGTTAAGAAAC  
CAGA

&gt;5.1

GGCGGCCGCCCGGGCAGGTACCATGGAACCCACTCTTTCATTGAAAGGA  
AATTAGGTTGAACCTCCAGGAGCCCGTCAGAGTCTGAGGAGAGGCTGGCT  
TGATGTCTAGATACGACGACAGCAAGGCTGCTTAGAGCTAACAGCGCATT  
GCCTTTCACTACCGGACTCTCCTTTGCAGCTGCCTTGGTGATCTCATCAG  
TCAGCATGTCTCTAACCCAGAGCCAGGCTGTGCTTTTTTGT

&gt;6.1

ACCTATGACCATCTTACATTATTTTTATGGGTGGGGGGCATTGGCTGTGG  
AATGTGGGCAGTAACTTGCACAGTCAGTAACCGTGTGAGTAACGGGTGT  
TGGCATCCCCATTCTGGCACTCCTCCTAGGTCTCACCTACACGCTGGT  
TTGTGGGCGGAGGGGCGAGTTGGTGCCTGGGGTGTCCGGGCACTGGCTGT  
GCATGCCTTCTTCTCTTCTGTCTCTTGGCCACCTTTTCAAAAAGTCAC  
CAGTGACCAATTCTCCAGTGTTTCTTTGGGACTCAATGCCTTGGGCTTG  
GCATTGGGTAAAGCCGACTGGCCAGTTTCATTCTGACCAGCTCTATAGTA  
GTCCGGTGTGGACCTCTGCCCTCCCTGCTCTGCGGAAGCTTCTCAGCCT  
TTGCTTCTCACTATTTACTATTTGCGGGGCGCTGGGGGTAC

&gt;7.1

CGCGGTGGCGGCCAGGTACGGATCAATTCCGCTGAGTTAGATTCCAAATT  
CTAACCTCTCCATCACACGCCCCAGAAAGGACAGTAGCCAGCTTCTCTGG  
ATGCTTTGCCAAGCAATTGACTCCATCACGGTGACCATCCAGCGAAGCAA



Table 3

GGAATGGTTTTGCAAATACTCGTTCCAGTTTGGTAGCATTTAAAGCTCTT  
ATATATTCTCGTGGGACCTCAAAAGGATGTAAAGCAGGATCATAGTTTCT  
TGGAACCTCTCTGTAAGTCCAACCTGGTTTCGCGGACATAATTGTCCGGAT  
TCGGGCTCAGCATCTTCACCTTCATCTCGGTTGCTCTTC  
>8.1  
GCAACCGAGATGAAGGTGAAGATGCTGAGCCGGAATCCGGACAATTATGT  
CCGCGAAACCAAGTTGGACTTACAGAGAGTTCCAAGAACTATGATCCTG  
CTTTACATCCTTTTGAGGTCCCACGAGAATATATAAGAGCTTTAAATGCT  
ACCAAACCTGGAACGAGTATTTGCAAAACCATTCCTTGCTTCGCTGGATGG  
TCACCGTGATGGAGTCAATTGCTTGGCAAAGCATCCAGAGAAGCTGGCTA  
CTGTCTTTCTGGGGCGTGTGATGGAGAGGTTAGAATTTGGAATCTAACT  
CAGCGGAATTGTATCCGT  
>9.1  
GGCGGCCGAGGTACCACATGCACTGATAGCTCTCTTTGTATGAACAGAGC  
TGTGGCAGGCCCTATGCCAGGGAGAAAGTAAGATTGGAAAAGAGCTTACC  
AAGGAGGTGGCATTGCACTGTGCTTAAGGGGCAAGAAAAACGTCTTCCA  
ATCAGGAGCCACAAATGCTTGGCTGAAGTGCTACTGCTCTTTCATCCTGG  
AGCTGGAACAGACGTCACCACTC  
>10.1  
TGGCGGCCGAACATCCATGTTTTAACTAGCACAGACAAAACCTATGTGTT  
ACTATCAAAATAAAATTTAGAAAAACAATTTTCTTATAAAATTTTCTGTT  
TGTATTTGGACTACATAAACTGGCTTTAAATTTGAGAAATATGCCCTAAA  
ACCATAAGGAAAAAGCCAACAGAAAGAACAAAAAGATCACAGCAATTAGG  
CCGTTCTATTCAATTTTGCCATGAGCTAAAAATCACATTCTTCACAAAGT  
AAATTACGCCCTGTTTTTATTCTTAAGCACTAGGGTTAGGATTGTGATC  
TGAGCTTTACTAAATCGGAAAAGAAAATCTCAATTATAGAACATTTAGTT  
TATTTATACCTTAATGCCCGGAGAGGTAATTTTACTTTAAATGCATA  
ACCCATGTGACATGCTAGGTCTTCCAAAAC  
>11.1  
GCTGGCCTGGTTCTCCAGGGAGCTGAGATCACTGAAGCTGTGGTCGCTGC  
CGTGATGTGGAGGAGGCAGAGCTCAGATAGAAAAGGAGGGAGTGACACTC  
AAGCTGCAAGCAGTGACAGTGCCCAGGGCTCTGATGTGTCTCTCACAG  
>12.1  
TTTCTCTTTTGCAATCATCAGTCTCTTTCTCATCACTGAAACCTACAAATA  
TTTTAAATCTTTCCATTAAAAAATTTTGCTGATCATTCAACCTCTTCA  
AATTATTAAGAGATACTTACTTGTATGAAAAATTTTGTGAGATGTATA  
ATCCATTTTTTCTGGGAAGAGAGTCAAGT  
>13.1  
ATTGCGTCCGAGGTACCAGGTGTCATTCTGCGAGCAGGATTTAACAGATG  
CAGATCTGGCCCCAGTGTGAGCATCTGTGTTAATGGTATCAGACTTAAAG  
AAGGAAAGACCTGATTTGACTGCTGTTGGTTTGGTAGTGTTCCCTGATCC  
GGAGCCAGTTTTGTGGGAGGGAGTCCCAAAGCAGGTTTGAGCTGTGGTAA  
TGACCGAGTTGATCCTAGAAGACAAAACAGTAGAATCGT  
>14.1  
CGCGGTGGCGGCCGAGGTACGGTATTCTCTTAAACAAGAGCAAGCCCATG  
ATGATGCCATTTGGTCAAGTTGCTTGGGGGACAAACAAGAGGAAAACCTCT  
GAGACAGTGGTCACAGGCTCCCTAGATGACCTGGTGAAGGTCTGGAAATG  
GCGTGATGAGAGGCTGGACCTGCAGTGGAGTCTGGAGGGACATCAGCTGG  
GAGTGGTGTCTGTGGACATCAGCCACACCCTGCCATTGCTGCATCCAGC  
TCTCTTGATGCTCATATTCGTCTTTGGGACTTGGAAAATGGCAAACAGAT  
AAAGTCCATAGATGCAGGACCTGTGGATGCCTGGACTTTGGCCTTTTCTC  
CTGATTCAGATATCTGGCCACAGGAACATGTCTGGGAAAAGTGAACATT  
TTTGGGGTGGAAAGTGGGAAAAAGGAATATCTTTGGGCACGGGAGGAAA  
ATTCACTTATGATATTGCATATAGTCCTGATGGGAAATACCT  
>15.1  
GGTACTGCTCCCTGCACGATCCAGTCAGCCCCTGCCCGGCTGGTTATGTA

Table 3

ACAAACAAGTCTGTGTCTGTGTGGAGTGTTCAGGACGAGTGGAATGAC  
TGTTTCCAAGTTCATGGCAATTCAGAAGGCCCTTCAGCCAGACTGGTTCC  
AGTGCCTCTCCGATGGAGAAGTATCTTGTAAGGAAGCAACTTCCATAAAA  
AGGGTCAGAAAAGTCTGTTGACCGATCACTTCTTTTCTGGATAACTGTCT  
GCGGCTGCAGGAAGAGTCAGAGGTTCTTCAGAAGAGTGTGATCATTGGAG  
TGATTGAAGGTGGAGATGTGATGGAAGAGAGGCTGAGGTCAGCACGAGAG  
ACAGCCAAGCGGCCTGTGGGTGGCTTCTTCTGGATGGTTTTCAAGGAAA  
TCCAACAACCCTGGAGGCTAGACTACGCTTGCTGTCATCAGTCACTGCAG  
AGCTGCCGGAGGACAAGCCA

&gt;16.1

CGGTGGCGGCCGCCCCGGGCAGGACGCGGGAAGAGGTAATTTAATGCCAT  
TTTCATGGGACACTTGGGAGCTAGATTAGAAGAAGCCAAGACTAGAATCG  
GGGAGATGAGTTGCAGAGGGAAGTGGTGAAGGTCTGAAGGAAGGTAGGAA  
AAGGTCGGACACATTCCAGACATATTTAGGGGTGGAGGTGGTTGGATATG  
GGGAGTTTAAAGGGGAAGGAATGTGGGGTGATCTGGGTGGTGAG

&gt;17.1

TGGCCGGCGCCCCGGGCAGGTGACTTTAGTCCTCACTCTGTGGGCAGGGG  
CATTACAGCATAGGGTCCCTTTTGTCAAGGATTTATGATGGCATCACAC  
GCAGGATTCA

&gt;18.1

CGCGGTGGCGGCCGAGGTACGATTCTACTGTTTTGTCTTCTAGGATCAAC  
TCGGTCATTACCACAGCTCAAACCTGCTTTGGGACTCCCTCCCACAAAAC  
TGGCTCCGGATCAGGGAACACTACCAAACCAACAGCAGTCAAATCAGGTC  
TTTCTTCTTTAAGTCTGATACCATTAACACAGATGCTCACACTGGGGCC  
AGATCTGCATCTGTAAATCCTGCTGCAGGAATGACACCTGGT

&gt;19.1

CCCCCGGAGAGGAATTGGGAAGAGCAAATTGCTGCTGAAAATTTCTACA  
TTGATCCAGACAAACAAGTTAGAGCAGGCTGAAAAAGAACCCTTGGTGTT  
TTTACTGTGTTCAACCAGATCAACTGGAAAAGTATAGATACCTTAATTAG  
CACTGTGCTCTGTGGGATTCTGGTCAGCCTGGCCCACTGGTTTTTTCCC  
CTGAACACGCCTGAAAGGGGAGCTCATAATGACTGCTGTGCAGGTGGGCG  
GGGAGGGGGCTTCTATTTGATTTAGTGGCTGATCAATGCCAGTTACCAA  
TTATTGGTAGCCCCATTTATACATGGTGGAAAAAAGT

&gt;20.1

GCCGAGGCACCACAATTTTTTAAGTTCTAAGGTAGCTTTCTCAAAGAAA  
ACCATTTCAAGGTGTCCATTAAGAGCATCTGCGAATTGTTTTGCAGG  
GACTCCTAATCAGTCAGGAGAAGTAGAATGTAAGCAAAGTCACAAACCTC  
CCGTAAGAATTTGGTTCACCAGGACACAGCTCCTCTCTTATGAAGGGATG  
AGAAGCAGACCCCAACCCAGTGCCACAGTCTCCCTGGAAACAGCAGCAG  
GCTTGGGGAATGCTTCCAAAAGGCTATGCCATTCAAGGTCTCAGGTTTTT  
TGGTT

&gt;21.1

TGGCGGCCGAGGTACGATTCTACTGTTTTGTCTTCTAGGATCAACTCGGT  
CATTACCACAGCTCAAACCTGCTTTGGGACTCCCTCCCACAAAACCTGGCT  
CCGGATCAGGGAACACTACCAAACCAACAGCAGTCAAATCAGGTCTTTCC  
TTCTTTAAGTCTGATACCATTAACACAGATGCTCACACTGGGGCCAGATC  
TGCATCTGTAAATCCTGCTGCAGGAATGACGCCTGGT

&gt;22.1

CGCGGTGGCGGCCGAGGTACAGAGTAGAGAGAGTTCTGCAGGGATGAAGT  
GGGAGACGTTGATAGGACCAGACCAGACCAGGCCTTGTAGGCCATGGAAG  
GACTTTGGATTTTACACCAAGTGCAACAGGTAAGTCTGGAGGGGAATTCA  
GCAAGAGAGTGACAGGAGCTGATTGACAATTTGAACGCCCACTCTGGCTG  
CCATGTGGCAAATAGATTGTAGGAAGAAAAGAAGAAAAGGAAGAGAGCAG  
TTTGGAAGCTACTACTGTTGTCCAGAAATATGTAATGGTGGCTTGGCCA  
GGGTG

&gt;23.1

Table 3

GCGGTGGCGGCCGAGGTACACAGTAGAGAGAGTTCTGCAGGGATGAAGTG  
GGAGACGTTGATAGGACCAGACCAGAGCCCTTGTAGGCCATGGAAGG  
ACTTTGGATTTTACACCAAGTGCAACAGGTAAGTCTGGAGGGAATTCAG  
CAAGAGAGTGACAGGAGCTGATTGACAATTTGAACGCCCCTCTGGCTGC  
CATGTGGCAAATAGATTGTAGGAAGAAAAGAAGAAAAGGAAGAGAGCAGT  
TTGGAAGCTACTACTGTTGTCCCAGAAATATGTAATGGTGGCTTGGCCCA  
GGT

&gt;24.1

CGCGGGGCGGCCGAGGTACAAAAAAGCACAGCCTGGCTCTGGGTTAGAG  
ACATGCTGACTGATGAGATCACCAAGGCAGCTGCAAAGGAGAGTCCGGTA  
GTGAAAGGCAATGCGCTGTTAGCTCTAAGCAGCCTTGCTGTGCTCGTATC  
TAGACATGAAGCCAGCCTCTCCTCAGACTCTGACGGGCTCCTGGAGGTTT  
AACCTAATTTCTTTCAATGAAAGAGTGGGTTTCCATGGT

&gt;25.1

GGCGGCCGCGGCCGAGGTACGCGGGAGGCACATTCTTTTCTACGTGAAG  
AGTTTTGTAACTGAACCTTTGTTTTAGTTCCGGCTCCAGCCATCCTGGG  
GTAGCTTGCCAATAGATGAATCCCACTCGTTTGACCCATGACGCTCCTTC  
TTTTCAATTTCTCCTCTTTCCCCACAGCAGTGCATGTCCACCATAACCAC  
TGAGAGTCTGTGGAATCTAATTTTCTGTTATACTTCTTTCCTTACACTCA  
TTTTCTGTCTTTATTATGATAGTCTAATTTTTT

&gt;26.1

GGCGGCCGAGGTACGGATACAATTCCGCTGAGTTAGATTCCAAATTCTAA  
CCTCTCCATCACACGCCCCAGAAAGGACAGTAGCCAGCTTCTCTGGATGC  
TTTGCCAAGCAATTGACTCCATCACGGTGACCATCCAGCGAAGCAAGGAA  
TGGTTTTGCAAATACTCGTTCCAGTTTGGTAGCATTAAAGCTCTTATAT  
ATTCTCGTGGGACCTCAAAGGATGTAAAGCAGGATCATAGTTTCTTGGA  
ACTCTCTGTAAGTCCAACCTTGGTTTCGCGGACATAATTGTCCGGATTCCG  
GCTCAGCATCTTACCTTCATCTCGGTTGCTCTTC

&gt;27.1

CGGCGGCCGCGGCCGAGGTACGGATACAATTCCGCTGAGTTAGATTCCAAATT  
CTAACCTCTCCATCACACGCCCCAGAAAGGACAGTAGCCAGCTTGTCTGG  
ATGCTTTGCCAAGCAATTGACTCCATCACGGTGACCATCCAGCGAAGCAA  
GGAATGGTTTTGCAAATACTCGTTCCAGTTTGGTAGCATTAAAGCTCTT  
ATATATTCTCGTGGGACCTCAAAGGATGTAAAGCAGGATCATAGTTTCT  
TGGAATCTCTGTAAGTCCAACCTTGGTTTCGCGGACATAATTGTCCGGAT  
TCCGGCTCAGCATCTTACCTTTATCTCGGTTGCTCTTC

&gt;28.1

GCGGCCGAGGTACTCAGTTTCTTATCTATAACATGGGGATAATATTAGT  
AGCTACATCGTTGTTATGAGGATCAATATCTGTAAAGCTCTTAGAACATG  
CA

&gt;28.2

CTCAGAAATTAAGGCAAAAAGTCTTACTGACCATGTAAAGGAAATCCAAC  
AATTATAAACAGTCTCTGCCTTTAAGGAGCTTATAGTCTAGTTAAGAAAC  
CAGA

&gt;29.1

CGCGGTGGCGGCCGAGGTACTCAGTTTCTTATCTATAACATGGGGATAA  
TATTAGTAGCTACATCGTTGTTATGAGGATCAATATCTGTAAAGCTCTTA  
GAACATGCATTTTCTTCTACT

&gt;29.2

CTCAGAAATTAAGGCAAAAAGTCTTACTGACCATGTAAAGGAAATCCAAC  
AATTATAAACAGTCTCTGCCTTTAAGGAGCT

&gt;30.1

GCGGCCGAGGTACTCAGTTTCTTATCTATAACATGGGGATAATATTAGT  
AGCTACATCGTTGTTATGAGGATCAATATCTGTAAAGCTCTTAGAACATG  
CA

&gt;30.2

Table 3

CTCAGAAATTAAGGCAAAAAGTCTTACTGACCATGTAAAGGAAATCCAAC  
AATTATAAACAGTCTCTGCCTTTAAGGAGCTTAT

>31.1

CGCGGTGGCGGCCGAGGTACTCAGTTTCCTTATCTATAACATGGGGATAA  
TATTAGTAGCTACATCGTTGTTATGAGGATCAATATCTGTAAAGCTCTTA  
GAACATGCATTTTTCTTCTACT

>31.2

CTCAGAAATTAAGGCAAAAAGTCTTACTGACCATGTAAAGGAAATCCAAC  
AATTATAAACAGTCTCTGCCTTTAAGGAGCTTATAGTCTAGTTAAGA

>32.1

GGCGGCCGAGGTACGTATGCACTTGCTTGCCATCTAAGCAGGGACAATGG  
CAGTTCATATCATGATGTTACTTTGATTCTCTGACCAAACCTGGCCTGTGA  
GCACCCTGGGCCCTTTCTTCTCTGTCAAAGGCCCTTAAGACAGGTTTACCC  
TGTAGCCAGGTCTGGAAGACAGAGCTGGGTAAAGCTGGGTGGGAGAAGT  
GAAAAAGGTCAGGTTTACATTCCTACGCGGAAAAGGATGTAACACGGGGC  
CACATCCTATGCCCAATCCCAAGGCAGGGAGGCAGGGGAAGTGGCTGCCAA  
ACCTGTTGTAGGAGAGTAATAAATGACTTGAGAGTAAGCCTAAGCAAAC  
CAAGTGGGAAGGGGAGTGGGCTGTAAAATAGTTTAAAGAGACTCTCTCAGG  
AAGTCAGCGTAATTGATGTGTAGAAAGGTAACAGTCAACAGTTCTCCTAA  
CAAGACAGCTTCAAAGCAGCAGCTATAGTGGAGCATTCTGAGGCCTGCT  
GCAGATCAAAGCATGAATGTGCAGACTGGTCCTCTTGCCACGCTTTCTT  
TCAAATCTTGCACATGTTATATTTAGAGGCAAGTTCAGTTCTAGAGGA  
GCT

>33.1

CGCGGTGGCGGCCGAGGTACGTATGCACTTGCTTGCCATCTAAGCAGGGA  
CAATGGCAGTTCATATCATGATGTTACTTTGATTCTCTGACCAAACCTGGC  
CTGTGAGCACCTGGGCCCTTTCTTCTCTGTCAAAGGCCCTTAAGACAGGT  
TTACCCTGTAGCCAGGCTCTGGAAGACAGAGCTGGGTAAAGCTGGGTGG  
GAGAAGTGAAAAAGGTCAGGTTTACATTCCTACGCGGAAAAGGATGTAAC  
ACGGGGCCACATCCTATGCCCAATCCCAAGGCAGGGAGGCAGGGGAAGTGG  
CTGCCAAACCTGTTGTAGGAGAGTAATAAATGACTTGAGAGTAAGCCTAA  
GCAAACCTCAAGTGGGAAGGGGAGTGGGCTGTAAAATAGTTTAAAGAGAC

>34.1

TTAAAGTCTTCTAGCCTGTATCCCCACTCCTTTTTGCCACTTGCAAATTC  
GGTAGCCAGTTACCCAGAGGGAGGCATAGGAGGGAAAACGAAGACTGAA  
AAGGGCTAATATGAGTTTTGTCTCTTACAATTTATCTGCATCTTATCCTT  
CCCCCACCCTCATCATTAAATCATTAAACATTCTATCCAAATAGGATGC  
CCTTCTGTGGAAGTGCATATTTGAAACCATACTGCCTGTTTAACTTATG  
CACTCCACTGGGAACCTACAGTATCTGTTTCCCACAATACTTGCAAGTCAT  
ATCAGTTACAACCGCTGGGTGTGTATTGGTTCAAAGGACCTACCTACAA  
GGTTATATCAATCCATTGTCCAATTTGAGAGATTTTTCTGAATCCAGTT  
AAAATAATTTTTGGCTACACCTGGGGACACTTCCAGGACAACAATGACT  
TGTAAGTCTAGTGCCCAAGAAAGCCAAAAGGCCCGGCAACCTTGTTGCC  
ACCAGATCCCCAACAGACAGATTCTAAGGGAGAAGAGAGTTTATCAACTA  
ACACTCACA

>35.1

CGCGGTGGCGGCCGAGGTACGGATCAATTCGCTGAGTTAGATTCCAAATT  
CTAACCTCTCCATCACACGCCCCAGAAAGGACAGTAGCCAGCTTCTCTGG  
ATGCTTTGCCAAGCAATTGACTCCATCACGGTGACCATCCAGCGAAGCAA  
GGAATGGTTTTGCAAATACTCGTTCAGTTTGGTAGCATTAAAGCTCTT  
ATATATTCTCGTGGGACCTCAAAGGATGTAAAGCAGGATCATAGTTTCT  
TGGAACCTCTGTAAAGTCCAACCTTGGTTTCGCGGACATAATTGTCCGGAT  
TCCGGCTCAGCATCTTACCTTCATCTCGGTTGCTCTTC

>36.1

GGTACATTTGTGTTTTATTGTGAAGGGTCCTCAACTGTGTGGCTGATTCA  
GGCTGTCCCCACTGCAATGTATGGAGAGGAGAGAAAGGGATGAAAGTGAA

Table 3

GGCAGGGGGGGGGATGTTTGTTCACGGGGTGAACCTCTGCCTGAGCAAG  
TTGATGTTGGCTCCGAGGTATTTGGACACTTTCTTTCAATACATTTTAA  
TTTAGCACTTATTCTGTGTCTGCTGCCCTGGGA

>37.1

GTGGCGGCCCGCCCGGGCAGGTACGCGGGGGCAACATGGCGGCCTTAGCAA  
GCTATAGCTGCGAGATTTGAATTACTCCACTCGTAGCTATTGCATTCCTG  
ACGATGGCCTCTGTGGCTTCGTGCGATTGCGCTCCGAGCTCAGACGAGCT  
CCCTGGAGACCCCTCTTCAACAAGAAGAAGATGAGGACTATGATTTTGAAG  
ATCGGGTCAGCGACTCGGGTTCATATTCCTCAGCGAGTAGCGATTATGAT  
GATCTTGAGCCTGAATGGCTGGACAGTGTGCAGAAAAATGGAGAGCTGTT  
TTATTTGGAATTGAGTGAGGATGAAGAAGAAAGCCTCCTTCCTGAGACAC  
CAACTGTGAACCATGTCAGGTTCAGTGAAAATGAGATTATCATTGAAGAT  
GACT

>38.1

CCGAGGTACTTAAGTTTTCTTCAGTTACAGCTACCATGTGAAAATAATT  
CTCTGCTTATCAAGTTTACAACCTTTAGAATTTCTGTTTTAAAGTTTTCT  
CATTTACTTATCACACAGTCATCTTCTTTTGCCTAACGCTATAGTAGCA  
CATTAAGGAGACTGATGTGAAATCAACTCTGTGCAAAAAGTATTGGGT  
GCTTTGGTAGAAGTCTATACAGAAGACACTGGAGACACAAAATGAATTT  
TGTCAGGTGAGTTGA

>39.1

GGTGGCGGCCCGCCCGGGCTGGTACGCGGGAAAGCAAAACGACAAGCACGC  
CCTGAGCAGAGCCCCGGGAATTCAACCTTTAAGTGGATAACTTGGCTTCT  
GGTTTGCCAAGGAACCAAGGGCATCAAACAGATGAAACAGCCTATTGTCCA  
TTTCAACAGGATTTTTCAGGAGTGGGGATGATCTTTCAAATTATCCACAA  
CTTAATTATTTAATATTTTATAGTCAATTACCTAAGACACGGCATCGTC  
ACTGACCAATCAGAAGAGATGCCAGTAGTTGGGC

>40.1

CTCCCCGCGGTGGCGGCCGAGGTACAGTTTAAAACTGTGGGGCTGAGT  
CCTCGGGGCCGTGGGGCGCAGCGTGGCTGATCACCATCATAACGGGCCTA  
TGGGGATACATTCTTTAGACATTTTGAAGTAATTAATGCTCTCGTTAGT  
GATTAAGTCTGTGAAGTAGTCCTTTGCATAATCAAATCCATGCTTTTCTT  
TGATGCCATTGCGACAAACAGTGTAAATTATAGAAGCGAGAATTCTTGATT  
AATCCAAGCCATTCTCGCCACCCAGGGGGGATGTAGCTGCCATTATATTC  
ATTGAGGTATTTTCAAAAAAGGCTGTTCTGTAGCCAGTGTGTTAAGAT  
ATACAGCAAAAGTCCGAGGCTCATGCATGGCCTGCCACGAGGGGGAAGAG  
CAGTTCTCGTTGTTGGTGTAGACATTGTGATTGTGCACATACTTCCCGGT  
GAGCATGGAGGACCGTGACGGGCAGCACATGGGTTGTAGTCACAAAGGCA  
TTGATGAAAGTGGCCCCCCCATGTTCCATAAT

>41.1

GGGGGAAAAAACTCCACTCAAGACTACACCCAGAAAAGCTATCTTTCAGA  
AATGGAGATAAAAAACATCTTTCCAGACAAAGAAAACTAAGAGAATTTA  
CTACCACTCACCAGCCTTACCAAAAAATGCCAAGGGAGTCCTACATCTA  
AAGCAAAACGACAATCATCACGAAAACATGCAAAAGCATAAAACTAATT  
GT

>42.1

TGGAGCTCCACCGCGGTGGCTGGTCCGGAAGAGCAACCGAGATGAAGGTGA  
AGATGCTGAGCCGGAATCCGGACAATTATGTCCGCGAAACCAAGTTGGAC  
TTACAGAGAGTTCCAAGAACTATGATCCTGCTTTACATCCTTTTGAGGT  
CCCACGAGAATATATAAGAGCTTTAAATGCTACCAAACTGGAACGAGTAT  
TTGCAAAACCATTCTTGTCTCGCTGGATGGTCACCGTGATGGAGTCAAT  
TGCTTGGCAAAGCATCCAGAGAAGCTGGCTACTGTCTTTCTGGGGCGTG  
TGATGGAGAGGTTAGAATTTGGAATCTAACTCAGCGGAATTGTATCCGT

>43.1

ATTGGAGCTCCCCGCGGTGGCGGCCCGGAGAGCAACCGAGATGAAGGTGA  
AGATGCTGAGCCGGAATCCGGACAATTATGTCCGCGAAACCAAGTTGGAC

Table 3

TTACAGAGAGTTCCAAGAACTATGATCCTGCTTTACATCCTTTTGAGGT  
CCCACGAGAATATATAAGAGCTTTAAATGCTACCAAAGTGGAAACGAGTAT  
TTGCAAAACCATTCCTTGCTTCGCTGGATGGTCACCGTGATGGAGTCAAT  
TGCTTGGCAAAGCATCCAGAGAAGCTGGCTACTGTCCTTTCTGGGGCGTG  
TGATGGAGAGGTTAGAATTTGGAATCTAACTCAGCGGAATTGTATCCGT  
>44.1  
AGGTTTTTACCTGATGATTGTGTAGGTTTCTCCTAGCTCCAAAGTATCCG  
GCTCCTACGACTCTAAATATAACCTTCAAGGAAAGTGGAGCTGGTTTACT  
CTTTTCTGA  
>46.1  
TGTCAGTGCTATTTATAGTAATACAAAAATTTAATGTAATTTTTGTCAA  
ATCTCAATGGTATATTTTTGCAGATTTTTCAAATTATATATATGATT  
ATAAATTATTGTTATAGATTCTTGGAAGTTAATCCATCTCACCATTA  
>47.1  
CTAACCTCACATTTAATTGCGTTTTCGCTCACTGCCCGCTTTTCCAGTC  
GGGGAACCTTGTTTCGTGCCAGC  
>47.2  
GCCGCCGGGGGAGGAGGGCCGGGTTTTTGGCGGTATTGGGGGCGCCTTC  
TTTCCCGCTTTCCTTTCGCCTCACTTGAACCTTCGCCT  
>48.1  
GTGGCGGCCGCCCGGCCAGGTACAAGGACATGCTGGATGCCAAGCAGTTC  
CCCCCTACCGTCTCACTGCCCTCAAGACTTCAAGGCCACTCTCCCCATA  
AACATCAGACTACAGATTTAGGTGGAAGAGCAGCCATGTTTGAAGGGCAC  
ATGTGATGAGTGGGGGGCAGCAAGATGCCATTTCTGCATCTCCAGAAGG  
GATGAGTCTTTGTCCCGATGCAAGCCCCCTATTCGTTGGGCTCCAGCAG  
TGCTTACCTTCTACAGCGTTCACTCATTTTGTCTTCCCCCAACTTTT  
TTTTTT  
>49.1  
GCGGCCGAGGTACAATAATGGAGCTCAGAAGCTGTCAAGGATATAAGCA  
GTGCAACCCAAGACCTAAGAATCTTGATGTTGGAATAAAGATGGAGGAA  
GCTATGACCTACACAGAGGACAGTTATGGGATGGATGGGAAGGTTAATCA  
GCCCCGTCTCACTGCAGACATCAACTGGCAAGGCCTAGAGGAGCTACACA  
GTGTGAATGAAAACATCTATGAGTACCTGCCCGGGC  
>50.1  
GCGGCCGGAAGAGCAACCGAGATGAAGGTGAAGATGCTGAGCCGGAATCC  
GGACAATTATGTCCGCGAAACCAAGTTGGACTTACAGAGAGTTCCAAGAA  
ACTATGATCCTGCTTTACATCCTTTGAGGTCCCACGAGAATATATAAGA  
GCTTTAAATGCTACCAAAGTGAACGAGTATTTGCAAAACCATTCCTTGC  
TTCGCTGGATGGTCACCGTGATGGAGTCAATTGCTTGGCAAAGCATCCAG  
AGAAGCTGGCTACTGTCCTTTCTGGGGCGTGTGATGGAGAGGTTAGAATT  
TGGAATCTAACTCAGCGGAATTGTATCCGT  
>51.1  
GCGGCCGAGGTACCTCAGCATATATTGGAAGTGTTTTAGAGTTGGTGAGT  
TCCCCGTGCCTTCCAGAACTGAACGCTAGGAGGAGCAGCCAGTGAGGACA  
GACGTCTATGCAGAAACATGGGGAACCTCTGGAAATGACACACTCTCCGG  
GCACAGGGGGCCATTTCGTCCATCTTGAGGTGGACTAATCATGGAGATTCT  
CGCAGGGCCGGCTGCTATCTCAGATTTTCTAATCGGAGAAGGAGAGAGAT  
CAACTTCCATCGACTCCAGTCTGTCGGGGGCTGATGAGTGAGGTGGCAGC  
AGGCATCCGCGTGGATTTGTTGAACTGGACTTTTTATTGTGCTGAAAGC  
TGCTTGTGATGATCTCATACTTTGTAGTTGTTCTATCTGCAGCACTG  
ACTTCTAAGGGATTCTTCCAACCTAGAAA  
>52.1  
CGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTGGCATTCTG  
AAAATTCATGAGGCTGTGTTTTAGGTGAGGCTATTTCTTCATTCACTGAA  
CGGGGCACCCAACAGGCTCTTAATATGAAGACTTGGGCCCTTCTGAGTT  
CTAGAAAAGCATTTTTACTAGTTCTTCAGTAATTTCCCTCCCCTTCATT

Table 3

CTCTGTTCTCTTTTCCTCGGACTCCAATTGGATCTTGGGCCTCTAAGTAT  
AGGCAAGATCATGTTTCTAAAAAGGTTCTTAGAGGGAGGGAGTTCTGGG  
AGTGTATGTGGGGTGGTGCAGAAGGTGCTAACAGGTGGGTTTCTCTTA  
GGATGAGCAGGTGGGATGCCAACTGTCAGGCTGGGACCTTCCCTCCAGT  
GCTAAATGAAAGTTTTATTCTGGTCCTTGACATCCACACCAGAAGTCT  
TGACTTTC

&gt;53.1

GAGCGACCGAGATGAAGGTGAAGATGCTGAGCCGGAATCCGGACAATTAT  
GTCCGCGAAACCAAGTTGGACTTACAGAGAGTTCCAGGAACTATGATCC  
TGCTTTACATCCTTTTGAGGTCCCACGAGAATATATAAGAGCTTTAAATG  
CTACCAAACTGGAACGAGTATTTGCAAAACCATTCCTTGCTTCGCTGGAT  
GGTCACCGTGATGGAGTCAATTGCTTGGCAAAGCATCCAGAGAAGCTGGC  
TACTGTCTTTCTGGGGCGTGATGGAGAGGTTAGAATTTGGAATCTAA  
CTCAGCGGAAATGTATCCGT

&gt;54.1

GCGGCCGAGGTACACTGGGAAAATGAAGAACTTAACTACATAAAAAATAGA  
GGGACAGTCAAAACTTCACAGGGGGGAAATCAAGTTAAATTCAGAGCTGG  
ATTTAGATGATGCCATTCTAGAGAAAGTTTGCTTTCTCCAATGCTCTATGC  
CTTTCTGTAAACTGGCAATTTGGGAAGCATCACTGGATAAATTTATTGA  
ATCTATTCAGTCAATTCCTGAGGCTTTAAAAGCTGGGAAGAAAGTGA AAC  
TATCTCATGAAGAAGTTATGCAGAAAATCGGTGAACTCTTGCTCTAAGG  
CACCGTATAAACTTGAGTTCAGACTTCCTGATTACTCCTGATTTCTACTG  
GGACAGAGAAAACTGGAAGGACTTTACGATAAAACGTGTCAATTCCTTA  
GCATTGGCCGAAGAGTTAAGGTCATGAATGAAAACTTAAGCACTGCATG  
GAACTAACAGATCTAATGCGGAATCACCTGAATGAGAAGAGGGCA

&gt;56.1

CGGCCGGAAGAGCAACCGAGATGAAGGTGAAGATGCTGAGCCGGAATCCG  
GACAATTATGTCCGCGAAACCAAGTTGGACTTACAGAGAGTTCCAAGAAA  
CTATGATCCTGCTTTACATCCTTTTGAGGTCCCACGAGAATATATAAGAG  
CTTTAAATGCTACCAAACTGGAACGAGTATTTGCAAAACCATTCCTTGCT  
TCGCTGGATGGTCACCGTGATGGAGTCAATTGCTTGGCAAAGCATCCAGA  
GAAGCTGGCTACTGTCCTTTCTGGGGCGTGATGGAGAGGTTAGAATTT  
GGAATCTAACTCAGCGGAATTGTATCCGT

&gt;58.1

CTCCACCGGGAGGCGGGCCCGGGCAGGTACGCGGGCTATTGTGATTCC  
CAGTGACCCATAGAACAGGATTTCACTAGTCCTATGACATGTGACTGGGC  
TTGGGAAGTTCGGGTGTCAGGTCCAAAAATCCTAAGGTGGGATCTTCGCT  
TTGTGAAGCAAATTAATTACACAACCAAAATATTGCCACATTCTTGAGGTC  
TATTGACACAATGGGAACCTCAACCCCTACTTAGCTTAGCATTTTTTTTT  
TCAAAGAGTGAAAAGTGGTCCACGTAGAGCACAATATAATTTAAGTAAAG  
GAAGATTAAACATATTTTTATCCATTTCTTATGGTGGGAAATTAACATG  
TTTTAGATTTGAGGTCCCCCTCTCAGGAAACCCTTCAACTTCGTATTAT  
TCACTCCTGAGTAGTATGGGGTAGAAAATGAGTGGAAATCAGTTTGGCCA  
CTATTTCCGAGTCTTTTGCACTGCAATACTTTTATCAATATTTACAATAT  
TTCAGTCCTGTTTACAGATGGGGATCACATCAGGCTC

&gt;59.1

GGCGGCCGAGGGACGCGGGGAAAGATCAGTTGTTTTACCTTGGCATTCAA  
GACTTTTCTTTGACTCCCATGGTTCTCAAAGCGTGATCCTGGTCCACCAC  
CATCAGCATGGGGGGGAACGTGTTAGCACTGCAAATTCATTCTCCTCCT  
AATTTTCTGAATCAGAAATTACGGAGGT

&gt;59.2

TAATTTATGCTTTGAGAACCGCTGATCTAGTTTGTCCCTCTCATTTTGCA  
GGCAAAGAATTGAATCTAGAGAGGTTAATTGA

&gt;59.3

CCCAGGATTCATAGTTTTCTTTCTAATACTCCATATTTGACTTGACTTTT  
TTACAAGTTGTAATTACAAATAAGTCTAAGATGGGAAAGTTGTGGAAAAC

Table 3

TTTATAGAGAACATGAGATTTGACTGAACAGTAAACATTAAGTAGAGAGG  
AAAGAAAGGGGTGTTCTAAGC  
>60.1  
GCCGGATCCGGACAATATGTCCGCGAAACCAAGTTGGACTTACAGAGAGT  
TCCAAGAAACTATGGGGGTGCTTTACATCCTTTTGAGGTCCCACGAGAAT  
ATATAAGAGCTTTAAATGCTACCAAACCTGGAACGAGTATTTGCAAAACCA  
TTCCTTGCTTCGCTGGATGGTCACCGTGATGGAGTCAATTGCTTGGCAA  
GCATCCAGAGAAGCTGGCTACTGTCCCTTTCTGGGGCGTGTGATGGAGAGG  
TTAGAATTTGGAATCTAACTCAGCGGAATTGTATCCGT  
>61.1  
CGCGGTGGCGGCCGAGGTACACGTTACTGTTCCGTCGTATTTTGTAGTCT  
CTGTTCTGCCCTTTGGAACATCTCTTCGGTGTTCTGTGGGATCTCTCTA  
CTGCATTCTACTTTATGTAATAATCTGTTCAATAAATAATTTTTAAAAGG  
AGACAACAACGCCGCAGGTGATCTGGAGGCTCCTGGAGGACCTCAGCGAC  
TCAGGTCCAGTCCAAGGAGGGCCGCAGATCAGGCTGAAGGATGGATCCAC  
ATGTTTATAGAGGAGATCGAGAAATGCAGAAGAGAGATGCAGCAGAGAAATG  
CCACAGAAAGGGGAGCTGGAGAGAATCAAAGCATGAGAGGAATTCAACCT  
GCTGTCACTGGAAGGGGTCCAGATGGAACGCTTGAGAAGAAACGTGTGTA  
GCATCTAGGAGTAAAGACTCGCCCTGGCTGACAGCTAGTAAGGAAATGGG  
AACCTCAGTGCTGCAGCCTCAAAGAATTGACTTTAACCCACAGCCTGTGT  
GCACTTAGAAGCGGATGCATTAC  
>62.1  
GGCGGCCGCCCGGCAGGACAATGATGGCTGTCAACTTCGTTTGTAAAA  
AAAGACAATTTGAGCAGGACGACCCTCTCCAATCTGGGTAGCATGGTTAG  
CCTGTGCAGTAACAACGTAGGCTCGGAGGATGGGT  
>63.1  
TGAGTGAGCCTAACTCACATTTAATTTGCGTTTGGCGCCTCACTGCCCCG  
TTTTCCAGTTC  
>63.2  
AGGAGGGCGGGTTTTGCCGTATTTGGGGCGGCTCTTTCCCGCCTTCCTTC  
GGCCTTCAACTTGACTTCGGCTTGC  
>65.1  
TTTTTTTTTTTTTTTTTGGAGGAGATGGACAGTGTCACTCTCCTGATAA  
GGGGGTGATGGGTAGGTAATTTAAAAGCTTCTATTATAAAATCTAGTCTC  
TCTGACACTGCCCTGTCCACTGCAGTCACATCTCCAATACTGAAGGATC  
CTGAGAATACGAGCGGGCATGACACTTACTCACGTCATTACCAT  
>66.1  
GCGGTGGCGGCTGCCCGGGCAGGACCGCGGAAATCCCCTAACTTCCTTGC  
TATCTTCCCATCCCATATTTAGGTTAGATAGAGAAGTGTGTATGTGTGTG  
TGTGTGTGTGTGCTCGCACAGTGATGAACTGTAAACATAAATGAAGATA  
TGGAAAAATACATCAATTAGGACAACATGACAATTTTATTAGACTCCTAT  
CAAAGAGTATCAGTTCACAGTTTTTATAGATACTAGTATAAAATTCAGAT  
CTTGACTGTTTTCTGGGGATAAAGCAAGGCTTTACAATTTAGCAGTCTGT  
AGCTAGCTTGAAACAGTAAAACAACAACAGCAGAGCCTTAAGTGTATTT  
TGTGACCTAAACATGAACTCAGGGTTTCCAAATTCCTAACAATGAATAG  
T  
>67.1  
GATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTGAAGGATAAGAAATT  
ACTGTGTCAAATFACCCACAAGTTAAATGCCCATGTTCCAGACCTGTGGC  
TCTTAGTATCAGGCTTGTGATAGAGAAAAGGCTGCTATGAATTCCTACTCA  
GTGTGCTTAGACCAAAGGAAACCACACAGGGATTTACAGGC  
>68.1  
TCCCCGCGGTGGCGGCTCGGGTACTTGACAGGATAAGAAATTAAGTGTGTC  
AAATTACCCACAAGTTCTATGCCCATGTTCCAGACCTGTGGCTCTTAGTA  
TCAGGCTTGTGATAGAGAAAAGGCTGCTATGAATTCCTACTCAGTGTGCTT  
AGACCAAAGGAAACCACACAGGGATTTACAGGC



Table 3

&gt;69.1

TTGGAGCTCCACGCGGTGGCGGCCGGGTCCCATTTTCATCTTGCACCCGCA  
TACCAGGGATTGTTGCGAAGAATCAGTTGTGTTATATTGTCCAAATCATC  
AAAGATACCCTGAGGTAAATTACTTAGGTTATTATTGGACATATCCAGTC  
GATAGAGCTGCCTTAGATAAGAAAAAGCATTGGGGGACCCGATTGATG  
TGGTTATCTTGAAGATAAAGCTTCCTCAGGTTTGTGCCTGGAAGGTTTAC  
TGGTGCAGCAGTCAGGGAATTCGCGACCAGGGACAGCTCTGTCAAATTAA  
CTAGGTTGAAGAAAACCTTTGTACCTAAACCATGATTGTTCAACAGGTTT  
CCATCTAGAACCAGGCGTTTTAGACTAGTGAGACCTTGAAGAGATGGTGA  
TGAAATAGTGGATATGCGATTATCATCCAAGCGTAGTTCTTCTATAGTCC  
TGGGCAAACCCAGGGAATTGTGCTAAGGTGATTACGGGACAGGAAAAGC  
AGTCGGAGATAGTTGCTGTCTCGGAATGCTCCCTCTTCTATGCTAACTGC  
AGAGACAGAGTTGTCATCTAAATGTAATTCTTCCAGATAGGGAATTTTG  
AAAGTGAATCATAAGTGATAGTCCTTATGTTATTTTC

&gt;70.1

TTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTGAATAAAAGGCTTTGG  
TTTCTCTGATGTCTTCCAATCAATCACACAGAGCTTGCCCTGATACTCAG  
CCACACAGTCCAGCAGACCTATATAGTTTAAGGTTTCATGTTGAACAGCA  
CTTTCAAGAGCTCGCACTCCACTGACATCTTTCAGAATATGCTGGACACT  
TTCAATGTAACCAGACTTGAGGAGATTTTCATCTCTCTCTTTTAAGGTTT  
CCTGGGGTGAAAGTATGCTTTCCAAGGCTTCGTGGAACCGTTTCCCTTGT  
AAAAAGACGTTTGAAGTGATTCTTTAAAGCCATCTTCTCCAGTTCCAG  
AATCATCCGCTGTTTCCACCTCTCCAACAAGAAAACCTGTTGTTTTGTCA  
TGGTCTGCTGAAGGACTCGGGTCACACTTGGTATCACATTCCTTTGCAAG  
GGGATTTTCAAAGGAACTGAAGGATCACTTGCAATTTGGTTTATCAC

&gt;71.1

GATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTGAAGGATAAGAAATT  
ACTGTGTCAAATTACCCACAAGTTAAATGCCATGTTCCAGACCTGTGGC  
TCTTAGTATCAGGCTTGATAGAGAAAAGGCTGCTATGAATTCTACTCA  
GTGTGCTTAGACCAAAGGAAACCACCACAGGGATTTACAGGC

&gt;72.1

ACATATATCATTTATTCAAGAGGCAGATTTTAAACGTTTTTGTA AAAAGC  
TAAATAACACCCAGAGTGACTCAAAAAATTTCTCAACTTTGCC

&gt;73.1

CTGCCTTTAAAGCTCATAACAGTAGAGATCAGTTGTCTCTGGTTGCAA  
TCTAACATATATTCATGCAA

&gt;74.1

ACCTTGTGAGAAGAGGAAGAAGGTGATAAGAACTAAGATCAGAGCATAGT  
AGAGAAAGTAGCCCTGTAAACAGAGGAGAAGCAGAAAGAGAGAAGGGAGG  
ACAGAGCTTTTATTTTGCTCCAGGTTAAAAAGAAAAAAAAAGCACATTAC  
AACTCTATGTCAGTGTCTGTCCAGGTCCTAGAACTGGAATAGACCAACC  
AAGCCCAACCCTTCTTAAAGTAAGACTAGGTGCTTCTGATTATATATT  
CAACTGCCTGGAAGCATGCAAGTAAATTTCTTGATGGCATTCTTAAAG  
TTCAAACATATTCTTCTTAAATGCATTTACAAAAATATTAAGATTGT  
GTTTTTTTGGTTGGACTTTAAAAAAATTTGTTTTCAAACCATAATTGG  
GGCCTACCCCAAATGGAT

&gt;75.1

TGGCGGCCGAGGTGCGCGGGGAGGCGTTGTGGGAGGAGGTGCGGGGAGAG  
AGGAAGGGGCCTGTGCACTGAGCAGGCATCAAACATTAGTGGATGGCCTT  
GCGTCTCAATCTGCAGTAAAGAGGAACTAATCTGAAAGGGAACGATAGG  
ACTGTGTGCTTTTTATTTTTTAAATACGGAGTGTGCAATTTTACTGAA  
TCTTGAATCATGCCCAAAGAATGAGCTGTGCGGTGCTGCAGTCGTGACCC  
AGGCTGA

&gt;76.1

GGTCTTGGCTGCCTGTGGGCTTCCCCAGGTGGCCTGGAGGTGGGCAAAGG  
GAAGTAACAGACACACGATGTTGTCAAGGATGGTTTTGGGACTAGAGGCT

Table 3

TATTGGGGGGGAGAGATCCCTGCAGAACCCACCAACCAGAACGTGGTTTGC  
CTGAGGCTGTAAGTGAAGAGAAAGATTCTGGGGCTGTCTTATGAAAATATA  
GACATTCTACATAAGCCCAGTTCATCACCATTTCCTCCTTTACCTTTTA  
GTGCAGTTTTCTTTTTACATTAGGCTGGTTGGTTCAAACTTTTGGG  
>77.1  
CAGGACGCGGGGAGACAGCAGAAGGATCACTGGGCTGGAAGCTCTAACAG  
GCATTGCCAGCCTAGCTACCTGCAGTTTGAGGCAAGGGCAGGGTCACTTA  
CCCTGCTGTCTGAATGTCTCCTGGGACAACAGGAGGCTGCACTCACTGGC  
TGAGTTCAGACAGAAGAGGGATCATCGGACTGGAAGCTCTGGCAGGTATG  
GCTAGCCTGGTTACCCGTAGTGAGAATGGAGAGGGCCACCTGCCAGCTA  
CACAAATGTTTCCCAGGACAACAGGAGGCTGTGTCCACTGACAGTTCAGA  
CCGAAGTGGAACCACTGGACCGGAAGCTCTAGCAAGTGTGCCCACCT  
>78.1  
TCCCTTTAAGTGAGGGGTTAATTGCGCCGCTTGGGCCGTAATCATGGTCA  
TTAGCCTGG  
>79.1  
GGTACTTTGGCCTCTCTGGGATAGAAGTTATTCAGCAGGCACACAACAGA  
GGCAGTTCAGATTTCAACTGGTTCATAGATGGGCGGGAGAATGAAAACA  
GATGGTGACGCCACAGTTCGTTTGATCTCCACCTTGGTCCCTCCGCCGAA  
AGTGACCGATGTCCTTCCATATTGTT  
>79.2  
GTCTGCGATGTCAGTGGCCCTGTTGGATGTATCAGAGATGAGGAGCCTGG  
GAACCTGGCCAGGTTTCTGCTGGTACCTGCCCGGGCG  
>80.1  
TGGCGGCGATTACTGTGCGAGAGGTAAGGATATATGTGGCTACGATTAC  
GGCCTCTCT  
>81.1  
GGTGGCGGCCGAGGTACAGCCAACCCCTAGGTGTGGACCAGCTGAGGCA  
GGTGGGCAGATATGCAGAGGGACTTGGGGCTTGGCAAAGGGTAAGCACA  
AAGAAGGAGTCACGGGTTCTGTTGAGGCACTGTTGGGATTAGGAGCCCCG  
AGGGACCTACTTTGCAGGAACCTAGCATAACTTTGTGTGACGAGACTGCA  
CAAGACAAGCTCAGGCAAGTGGCTCAGTAGTTGGCCAGCCCAGCAGGGT  
CCTCTGTATGAGTGTGACCCAGCTGAAGAGAAGAAATGGAGAGCAGCAA  
TTGGAGCTTCAGGACCGGCTTGCAGTGTGGCTCCAGGTTATACCACCACT  
GCCCAAAGCAAAAGCTAGAGAAGCAAGTGGAGAAATGCTGGAGAAAGCTG  
CACCCTACAGGCAACCAGCACTTTAAAACCACTCCAGGCAAAGTAATGG  
AAGGAAAAAAG  
>82.1  
TGGCGGCGGAGGTACGCGGGGGAGTCAGTCTCAGTCAGGACACAGCATGG  
G  
>83.1  
GTGGCGGCCGAGGTTCTTGTGTCAGCTCTTTATTTCTTAGTCCCACTCC  
CCCAGGGTAACACATTTCTGCTTTTTTAGCTGTTTCTCTAGTGTAGGTT  
CACCTTTCTAATTTTGAATCAATCACTTAACCACCGTTACATACTACAA  
AATATCACTATATTATGACCATGATTATATTTCTTTTCTTTTCCCTTCA  
TCAAGGAAGTTCATCAAAGAATTTCAATCAAGTTCATGATGACCTCTT  
TTAAAATTTCTTAGTATTCTATGTAACATTACCGATCTTTTCCCCACA  
CA  
>85.1  
CGCGGTGGCGGCGGGTACTTATATTACATTATGCTAAAATGCAAACATCT  
TATGCTAAATGTTATATTTGGGAACAAATTGTGTAATATACTGATGACG  
TCAATGGATCATTACAATTAATGTAGGTGCCGTGGGCAGGAAAGCTAACT  
TTAGCTGAAAGCATCTGAAACGTGCTTATTTTAAATGGGCCCTCAAAGGA  
AAGGGATGAGGCCAGCCATAAAGAAAGGCTTGGCCAAATATAGTTCTTGT  
TTGTCAAGAACAACAAATCCCATTTACAACAGAACTAACCTGGCATGCC  
ATTCTATCCTTAGGTTCTGGCGTGCAGTGAGCGAGGCAAGGATGGCATTG

Table 3

AAGATTTTCATTCCCTTTGTTCCAC

>86.1

CGCGGTGGCGGCCGAGGTACATCCCTGTTTATCCCATTCATCCACCGAG  
GCCCAACAGCATGGATGATCTGTTTGCAGGGAAGCCTCCCTGCTCCCGTG  
ACAGCTATCTCACCAGCTGACACTTTACCATATCTGGCAACAACTGTTT  
GCTCTCTTCTTGGATTTCAAATCCACCAGCTTTTACCAGGGCCAGGGCCA  
GGCCTCCCCCATGCAGAAGATCTTCATTGGCTGCATTCACCACAGCATCA  
ACAGCATGTGTGGTGAGGTCATCTTTCCACACTGATAACTCTATCCTAGG  
AGTCAGCATTTTTCTGAACACTTGCAGAGATTTGCTGTTGCCTTCCTGAA  
CTGGAGAGACCAGGGTAGAGATACAGCCAACTTATTCTGGAGGACTTCA  
CACAGCTGACGCTCATTATTGTTTAAATTTTGAAGTCATTGTGGTTAAT  
GGGAAATTTGCCAACTATAGTTTTCTCCAAG

>87.1

CGCGGTGGCGGCCGAGGTACTCTTCAAATTTGTCAAGGTCATGAAAGACA  
GCAAAAAGTGAAGAATTCTTACAACTAGAGGAGACAAAGATTGGAG

>87.2

AGTTGGAAGACCGAGCCCTGTACCCAACGTGGAAGAAACCTCCCATTCCT  
CTACTTAAAAATA

>88.1

AAAACCGTAAAAAAGGCCGCCGTTGCTTGGCGTTTTTCCATTAGGGCTC  
CGCCCCCTTGACCGAGCCATCACCAAAAAAATTCGACGCTCAAGGTCAA  
GAAGGGTTGGGCGGAAAACCCCCGACCAGGGAAC

>88.2

AGAATACCCAAGGGCCGTTTTTCCCCCCTGGGAAAGGCTTCCCCTCCGT  
GGCGCCTCTTCCTTGTTTTCCCGAACCCC

>89.1

ACCGCTCAGCCTGCTTGGTTGCATCCTCCGCATGGCGAGTCAGCTCTGAG  
ATCTGAAGGTCAGCATGCTTACGCTCGGCCTCACATGTGTCAAAGTGATT  
CTGGATCTCCTTAAGTCGATCCAACATCTGCAGTTGCTGTTTTTCCCAT  
TCTCCAGTTCACGTGTTAAATTCTCTACTTGTGATGCCAAATGTGCTTTC  
TTCTTGCTTTTTCTTCCATGCACCGTTTCACTTCCTCTAACTCAAATGC  
CATTGCGCTGAAGTTCAGCTGCACTCTCAAACTGACATTTGCT

>90.1

TTGGAGCTCCACGCGGTGGCGGCCGAGGTACGCGGGATCACAAAGCAGAC  
AAACAGGAAAGACTGAACCATCTATTTGAAAAAGTGACTTCATTCAATT  
GGTTCAGCCACCCGTATCTGTAATCTCTCCATTCTGCCCTCTTGATTTTA  
ATGCAGCTATAAAGGAGAGTATTTTAAAGTGCCTCCCAGTAGGAAGAAC  
AGTCACAAGGCACTGTTATATCAATTCAAGTGTGACACAAGCCCTGATTAT  
TTAATAGTATAACAGCAGTGAATCAGAGTTCTTTCATCTGACTTTGCTGA  
CATTTCCAGCAGCTGTATATTTAATTCACAGTTAGGGGCTGAACAACTA  
CAGCCATTGATCAGAATGTAAGCAGGCATCCTTGAGCTTCTTCTAGGAAC  
ATATACAGATGTGCACAAAATTTTCATTTATTCA

>91.1

TTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGATCACAAAGCAGAC  
AAACAGGAAAGACTGAACCATCTATTTGAAAAAGTGACTTCATTCAATT  
GGTTCAGCCACCCGTATCTGTAATCTCTCCATTCTGCCCTCTTGATTTTA  
ATGCAGCTATAAAGGAGAGTATTTTAAAGTGCCTCCCAGTAGGAAGAAC  
AGTCACAAGGCACTGTTATATCAATTCAAGTGTGACACAAGCCCTGATTAT  
TTAATAGTATAACAGCAGTGAATCAGAGTTCTTTCATCTGACTTTGCTGA  
CATTTCCAGCAGCTGTATATTTAATTCACAGTTAGGGGCTGAACAACTA  
CAGCCATTGATCAGAATGTAAGCAGGCATCCTTGAGCTTCTTCTAGGAAC  
AAATACAGATGT

>94.1

ACACAGCTCCATGAGGTCACCAAGCATCCCATCACCCATACCGGCAGTTG  
CATGGCAATGGCTGCCAGGCAATGGCACATCAAATCCGGGCAGCGTCTT  
GAGCACTGTGCAATTGAGTCAACAAGGTCTCAACTACTGACTGGCTAAGA

Table 3

TGGGGCCTGCCCTTGGCCAACTTCACCATACAGTTTAGAGCAATCTTTAA  
AGTGGCCTGAGCACCTGGACTATCATCTTGACTACAAAGT  
>95.1  
ACCTGTATGATAACATTGCAGTCAAACATATCTTGTGACAGGACAGTTTT  
TTGTGGGGAGGAGAATTAGACCAAGTTCGGAGATATATTTTAGGAACTAA  
AAGGAACGTAAGATCTGGGGTAGGGGGATGAGCAGCTCCACACCCTGCTC  
CTGTGTGAGCTGTGCGCTCCCGACTGGGAAATGTCTAACTCCATCGAAAA  
CATGAGATGAGGGGCAGGGAAGGGGCTACTTCCAAGCCTTTCATTATAAT  
ACTGTGTGTAACCTTTTGCATATTTTCAGAAAAGAAACCAGTAAGGTGGG  
TTCAGTTGTGGGCTCATCCTGACTTAGAAAATTTTAAATAATTTAGCCCA  
TTGAAATGTTGATAATATAAGGCATGCATGAATAATAATTTTGTCTCT  
>96.1  
AAATGTCGCCAAACTGCCGTCTTCCCTCCTCGGCCGCTGCGACAAACACC  
CCACAAAATGGCGGCAGCGCCGTCGCCCTAGAATCCCCGAGTCGCCTCT  
CCCCGCGT  
>97.1  
TGAGCTCCCCGCGGTGGCGGCCGAGGTACCTTCCCCTGAGGAGCCCCCTT  
CAGAGGGGCGAAGAGCAGTATCTTCAGAGGCCATCCAAGTTTTAGCATAA  
CAAGGAGGGAAAGAGAATGCAGAGAAGAGGCTGGTGATAGACAAGTTTCA  
TGTTCACAACTTGAATTGCAGAGGTCAAGAGTTTAAAGAGTTTGGGATGG  
AAAGAAATCGAGAATTGGG  
>98.1  
AGCTCCCCGCGGTGGCGGCCGAGGTACCAGCAGAGATGGCTTCAAGATGA  
TTTAGGACTTGGGTGAGTAGCACTTACTGATGTAGTGGTTTTGATACACAC  
TGATTACCTTCTTCTTTTTTATTCTCTGGCATTCTCCTATATACTAG  
CCACTTTTAAACAATATTTGTGCGCTCTTTCTTCTGCTTGTCTGTAAAT  
ATTAGGGTTCTGAGTCCTTACCTAGATTTTCTTCTCTTCTTACTCCTGG  
CCTTTCCTTGGGAGAGTTCATAATTACCTACTCCATCTAGATATTTGTG  
ATGTCCAAACACATCTCCACGTTAGGCTTCTATTTGTAGCATCAGACCCA  
CACTTTCAACTGTCCACTAGATAGCCTCACTTGGATGCTCTGCAGGCCTA  
AATAACCTTTGCGGACAGATTAACAGGGAAAAAATATTAATAGGAAAAAA  
TATTAGATTTTATCTGATGTTAATATTTCTATGTGGCATGGAGGACTTC  
ACAGA  
>99.1  
GGAAGAGGGCCGTTTTGCGGTAATTGGGGCGCCTCTTCCGCTTTCCTT  
CGCTTCACTGGACTCCGCCTTGGCGCTTCGGGT  
>100.1  
TATGCATATCATCCAGGCAGCATAATGTTATATTTCAAAGACAGATTTAT  
CCATTGAATTATTGTTTTTAAAAGTTGGGATTCTCTACATAGAACATATT  
TTCTGAAATTTCAAGAATATTTTCAGGTAAATTAAGAATTAATTTCTTCT  
AAGACTATCCAATGTGTCTCAATCTATTCCATAATATAATCAATGATAAA  
GATTCACATGTATCACCAAATTCGAGGCAGCTTAGTTGAAAAAATTTGAA  
ACAGCTTACTGAATTCATTTGCTGATTCTGGGGGGGCTTCCCAATGGC  
ATGTGTGCTCCTTTGGATGCCTGCAGGGGTGGTCACTGCAAAGTCGTCAT  
CTGTGCCACTGGGAGTTGGGAGGCGGCCTGCTGGGGTTCCCTGGGTGGCA  
GGATTTACACCTGCTCCTCCTGCTGGAAGGCTTCCATCCTGGACA  
>101.1  
GCGGCCGAGCCCAATTCTTGATTTCTTCCATCCCAAACCTTTTAAACTC  
TTGACCTCTGCAATTCATGTTGTGAACATGAACTTGTCTATCACCAGCC  
TCTTCTCTGCATTCTTTCCTCCTTGTATGCTAAAACCTTGTGATGGC  
CTCTGAAGATACTGCTCTTCACCCCTCTGAAGGGGGTCTCCTCAGGGGAA  
GGT  
>102.1  
ACCATAATAATGCAATTAACAAAATCCAGGATTTAAGGATTTCTATAAGA  
TTAAAAAATAATGAGGTGGTGTGAGTGGGGAGAGAAAAAAGCAGGAAA  
CAAAACTGGTGAGAGGAAATGACCCCTGATGAAAGATCTTAACACCAG

GCTGAAGATTATTAGATTCTTCTACCTATTAGAAATGAATATTCACTGAGGTT  
TGATGAAGAGTCACTGAAGTGTACACAAAGAAAACAAGATTTGAGAAAGAT  
TCTTGAGAACTCGTGCATAGGAATGAACTGCAATAAGGGCAGATTAGAGA  
AGAACTAGGCCATGAGGGCCTAGTATCCAGAATGAGGCAGAGGGAGGGAC  
GCTGGATGTGAGCA  
>103.1  
GAGCTCCCCGCGGTGGCGGCCGAGGTA CTCTTTCTTGTTTAAAGCCTCA  
CCACTGACCAGGAAGTCTTGATAGAGCCATCTAGTAATTCTTAAGTCCTA  
CCTCATCCAACCTTGTTTGA CTCTGCA GTGAGCACAGCTTGCCCTCAC  
CCTCCCCTCTCTATGCCCTCACCTTTG CAGGAGACTCTCAATTTCTCAGT  
CCACATCAGCTCTCAGACCACCAAAGCAAGGGTTATTTTT  
>104.1  
AGCTCCCCGGGTGGCGGGCCGGGACACGTAACAGGGTG GTTG CATGCATT  
CTCAAGTCTGTATGACTCTACCAAGATACTGTGAAGTTGTCCTTCTGATT  
GCACATGGGGAGAAAATGCTGAAACTAGTGGCCACAGATGTCTTTAATTC  
CAAAA  
>105.1  
ACTTTCTAGGTATATCATGTGCCCTAATGTGCTCCTAATATCATAAATGT  
TTACTTTCCGAAAAGTATTTCTGAAAGGGAGCATATTTGGAAAAGTGCAT  
AGGCTTGTGAATCATACTTGTTTCAAAGTTTCAACTTTGCTATCAACTAG  
AATAATCTTG TGCAAAACCTGAGCTGATTTTCTCATCTATAAAATGGAAA  
CAATACTTTCTGTGATAATGGGTGCAAAACACAAGGTATACTGGTTTCTT  
TGCTCTGGATTCAAGTTTTCTTCTAGTTTCAAATTTTAAAGGGAAACC  
AAAAATGTTTCATG  
>106.1  
GTCCGGTAGTGGGCAGCGATCAGGGCTGGGGCTCTTTCCTGAGTTGTGTC  
AGGTGAGAGATTGTGAGAACTTGGCTTG CAGGGTTTGGGCATCAGCTGCC  
CATTGAGGGGCCGTTTCATTGTCTCAAAGTGAATGTGGGGTGGTTTGATCT  
GCATGTGTCA TTTGTATCCACACAAGTTAATTATCTGCTTTTGTGTAG  
TACCTTGGTTGTGAAGCAGAAGCTACCAGGCGTCTATGTGCAGCCATCTT  
ATCGCTCTGCATTAAGTAAGATGAGGATTCACCTCTTAATTTATGGGCACA  
ATTTAGTTTCTTCCACACAAATTTAGGCCCTAACTCTTTTATTTTTTCT  
ACAGTGGGGGTTTGGAGTAATATTCATACGGCATGGACTTTACCAAGATG  
GGGTATTTAAGTTTACAGTT  
>107.1  
ATAATTGCAGAGAAAAGCTTGCCAACGGTGATAAGTAGGTTTGTCTAGCAG  
CACTGATGCGTCGTGGAAGTTGATGGTCATGAACATACAGTGTGATAACC  
TATCTGCCCTCTTGACCTTTTTCTAGTAGTGCTATGTCATTTTGGTACTAA  
GGTAGGTGAATTTTCCAAGTGTTCTTGGAATAAGGAAACATCAAGAATA  
ATGTAAAAGCCTCATATACAATAATGAATAAAGAATAATGTGAAGGC  
TTCATTCAAGGTTGGGGTTTGCCAGATACATTGCAACAAATGACAGAGC  
AGCCAAGGTATTTAGGATAGTGGCCAAAGGATTGTAATGATGGCTTATGG  
AAGTGTGAGCTGGATAAAGAGTGAAAATGAATAAAAACTAATG  
>108.1  
ATGGATTCTACATCAGGTGTCTGTGCCTCGCTGCTGAAGGATAACCCAGA  
GTGCAAGGTCATCTTTGTTGCTGAACAGGGCTGGACCTGTCGCACCTAAG  
CACACTTAAAGGATTCTATTCTTCATT CAGGTCCCCCAGAGAAATTGGCT  
CCTTATTTTTCTTTACCTATTCTAGACTTCTTTTTGTCTAGAGCCAGTT  
TTGCAAAGGGCACTTTTATCCATCTCAGTTATTCCCAGAGGTGACAGAAT  
GAGTAAACCATATGGGGCAAATAGCATATATGAGCTAAACCGATTAAC TG  
TTAACCAAGGCACATGGTCAATGCCTTAGTATTTTTTTTTTT  
>109.1  
CCACGCGTCCGAGACACTTCTCTGACTAACCATAGACTATGTGGAAAAATG  
GTAGCTGGATTGCCTTTGGGTGGAGTCCCTTGCCCTGTGGCATAGGAAACA  
AAGGAAAGGAGAGAGATGCCCTTTGAGATTAATGAAAATGCTCTCAGCCA  
AATAAAATCTAAAAATAGCCTCCTTGTGATACGAACGCGTGCCCTTAAG

Table 3

GGTCCTAAAGAGAGAGCTAGGGGAGGTTGAGCTGGCCACAGAGATGCTAA  
AGGTCAGGAGCAGACTTTTAGGGTTTGCTGTTTTATAGGTTTAAAGACCA  
GGTCTGTGTTTTGATAACTGAACTTGCTAATAGCTGGCCACTTGAGTTGC  
TTCTTCCAGCTCTTTGTTTGTGTTTTAAATAAAGAGATTGAGCCAGTAATAA  
TGGGAAGAGCTGCAAATGACTTCCCCAGTTGGGAGTGCCTGCTTGTTTT  
CCTTCTGCCTGGGCATGCTGATGTGC  
>110.1  
GTGCTGCCTGCACTGTGACTAAGACTTTCTGGACTATCATCATGTTTAGG  
AGTTGATGAGATTATAGTTTCATGTAAGTGTATCATTAGATGACAACTCT  
ACATCTTTAGGCATGGAAACAAACATTTTTCTGGAAGAAAAAAAAGTGA  
ACATCCAACCTCCATTTAAACAAATTTGATTGTTTCTTTGCTATTAAGAA  
ACTCGGTGCTCTTTCTCCCACTCTATTATATTGTCAAATACATCTGGAG  
ACACTATATAAACTTTTTCTCCTTTAAATTACCTGGTTTATATATTATCT  
CCTGTAGCCTGCATATAGATAAAGGTTAAACATAGAGGATTTAGGTTGTT  
GGTAATTTAATAAATA  
>111.1  
GTCGCGGGATTGGACCGACGCAGCCATGGTAGGTCCAGATCCCGTAGAAG  
GGAGCGGGGTCCCATAGGTTACGGCCGATTCTGAGCTTCTGGAAGTGG  
GGCCGCGGTAAGCAGTGGTCTGGGCTCCCGC  
>112.1  
GTGGCCGAGCGGTTTGCATCGCCAGCTCGCGCAAGGCCATGAGGTTGGTC  
TGGGTGAAGAACGCATCGATGGCGGCACGGGCTGTTCCGGCACGTAGAC  
CTTGCCGTACCGCAGACGCTCCAGCAATTCGCGCGATGGCAGGTGATCA  
GCAGCAGCTCATCGGCTTCTGCAAGACCCAGTCAGGCAAGGTCTCGCGC  
ACTTGACGCGCGGTGATGCCGCGCACCTGGTCGTTGAGGCTTTCCAGATG  
CTGGACGTTGACTGTGGTGAATACGTTGATGCCGGCAGAGAGCAATTCCT  
GAATGTCTTGCCAGCGCTTTCTGCGCGGCTGCCGGGGGCGTTGCTGTGG  
GCCAGTTCGTCCACCAGCACCAGGTTGGGCTTGGCGGCGAGCAGGCC  
>113.1  
GGGCGCGGCCAGCCGACTGGACCCCTTAGCCTCGAGGCCCTTGCTGAAGC  
TCATGTGAGGGGGCGACTGCCCTGACAGGTGTTGGATTCCAGCTGCTGT  
GGCCCTGAAGGTGGGTGGTGGGAAGAACGGGAGAATGAAGCCAGCCTTGG  
GAGAGGTAGGACGCCAGCCCGGCCAGCTGCTTCCAGCATCTGGATCCAG  
CCTCACCTGAAGCCAGCCACCTTCTGGACTGCAAAGTCATTGTCAACACC  
GAAACACAGGGTTTCTGACCATTGCAACCCAGGGTCCCGGCGTGTCTGTGG  
CTGCAGACCCTGCAGACCCCTATGAAGATGGTCCTGCCTGCCTTGCATCG  
GGCCTCTAGCTAGGGACTGTGGTTGCA  
>114.1  
AGCTCACCGCGGTGGCGGCCGAGGTACGCGGGAAGCAACTGTCAGCTAGT  
GAGATTACTGTGTATGGCCAATCCAGATAAATAAGACGATCAAGTCTTTA  
TGAAAAGGAAAGAAAAATTTGGAATGCACATCTCTGTCCAGCTCAATTCC  
TCACTCCTTTTTTAAGATGGAGAGCTGTTAGGTTTGTCTACACAGTAGGA  
AACACCTGATTAATAACAGCATGGAGCCAATCTTGACAAAGAAATTGGC  
TGCATCC  
>115.1  
GCCCCAGGGGCCAGCTACTCGAAGAACAGCCAATGGATTGGAACGTCCT  
AGGACAGATGCCACGGCTTTGACCCAGGCTGGGGGTGCACGGATCTCACT  
GGGGTTAGTTGGTCGGAGGGGGAAGCCCCATGGGTCCACCAGGATGAGGT  
GTTTAACCTATCAGGGT  
>116.1  
CCGCGGTGGCGGCCGGTAGCGCCGGTAGGCGGTGTGGACCAGGGGCTCGT  
CGGTGGCGGCCAGCGAATTGGTGACGACGCTGATCTTACGTTGCGCCCC  
CGGATCTCGGCATCACCTCCAGCCCCGTGGCACCCGGAATCAGGTAGGG  
CGAGACGATGGTCACTTCGGAACGCGCGCGCGCATCTGCTCGACCACGT  
TGTAGCGCACGCTGTGACATCCAGCAGCGGCACGCGCGTACGACGCG  
GTCTTGCCGATCACGCGGTGAGGCGAATCGGCATACGCTCGGCGGTGGT

Table 3

CCAGATCAGGCCGAGCTTGCCGGCGTTTGAGGTCTTCGACCATCGGGCTG  
TAGCCGAG  
>117.1  
TGAGCTCACC GCGGTGGCGGCCGAGGTACTCTAATGGAGCCACTCAGGAC  
TGTCTTAAAAAGACAAAAATACCTCCTACAGTTGTTATCATCAACGTCAG  
TTGCTGGCTTTTCTAAATTTGTCTTCTACCTCAGATCTAAACCATTGA  
TAACATTAGGGCAATATCATGGCAATCGTGGCCAGTAAAACCATAGCAA  
ATGTTTTCTCCCTAGGACACTATCTGTTTTACAGGAAAATTTTCTCAT  
AGAAAACTGTAGGAAAAGCCATGGATGAGCTGAGAAGACCAAACCTATC  
TCTTGAAAACAACAGTAGGGAGCGTGGATTAGAATGTCTTGGGTGCGTG  
AAACAGGCAGACAATCCTGAAACATCTTTTCTGGGGACGTAAGGCATGAA  
AAATTTCTATACACTTAGGAGGGCTTCTAGGAAACAGGAAACGACA  
>118.1  
GTGGCGGCCGAGGTACGCGGGGAACCGAGGCAGCAGCGGACGTGAGCGAT  
AATGGCGGATATGGAGGATCTCTTCGGGAGCGACGCCGACAGCGAAGCTG  
AGCGTAAAGATTCTGATTCTGGATCTGACTCAGATTCTGATCAAGAGAAT  
GCTGCCTCTGGCAGTAATGCCTCTGGAAGTGAAGTGATCAGGATGAAAG  
AGGTGATTCAGGACAACCAAGTAATAAGGAACTGTTTGGAGATGACAGTG  
AGGACGAGGGAGCTTCACATCATAGTGGTAGTGATAATCACTCTGAAAGA  
TCAGACAATAGATCAGAAGCTTCTGAGCGTTCTGACCATGAGGACAATGA  
CCCCTCAAGATGTTAGATCAGCACAGTGGGATCAGAAGCCCCTAATGATG  
ATGAAGA  
>119.1  
CGCGGTGGCGGCCGAGGTACCTGAACACCAGGCTCTTTACGGTCCCTGGC  
CAGTGAAAGGGTCTAATATAAAACACACCGAGGCTGAAATAGCCGCTGCT  
TGTGAGACCTTCCTCAAGCTCAATGACTACCTGCAGATAGAAACCATCCA  
GGCTTTGGAAGAACTTGCTGCAAAGAGAAGGCTAATGAGGTGCTGTGCCA  
TTGTATGTCTGCAGATTTCCCAGGGTTGGGATGGGTTTCATCCTACAA  
CGGACAAGATGAAGTGGACATTAAGAGCAGAGCAGCATACAACGTAACCT  
TGCTGAATTTTCATGGATCCTCAGAAAATGCCATACCTGAAAGAGGAACCT  
TATTTTGGCATGGGGAAAATGGCAGTGAGCTGGCATCATGATGAAAATCT  
GGTGGACAGGTCAGCGGTGGCAGTGT  
>120.1  
CGCGGTGGCGGCCGAGGTACCGAGCTACCAGGCTGTGGAATGAGACCGG  
AGCTTTTTCTGCTAAGATGCCGTTACGGAAACATCGCTGTCGTTTCAAG  
AGCTATGGGCATTGTTTCACA  
>121.1  
CCGCGGTGGCGGCCGAGGTACAAGTTTATGTTTTCTTGGTGTAAGGCTT  
TAACAGTTCCACCTTTAGCTGCCTGGGCATTGATTGCTCACCTACCAC  
TATGACTAGATATGATTCCATGTGCTTTTACTAGATTCTTTGTCTCTTG  
TGTATGGAAGTGAGACTTTAAGTAATAGTTACTGCTGAGAGAAATAGAA  
GACGTGACAACGTTTGCTTTCCATTAGTAGTCAGCGGTTGAATGGAAT  
TATCTTCGTTTTTGGACTGACAGATTTGTTTTACAATTCAGCTATTCCCA  
AGCCTTACTATTCAAAGCAGAACCCTTCTGTCTTCTTTCTGTAGTTGCTC  
TCTCTCCCTATATTCTGTTGTATTTTTTCAAATAACTTATTACTATCTC  
AAGTAAATTTGTTTTATGTTTTGTTTTATCTACCCTCTTAATCAGGGCA  
GGGATATGTCTGTTGTATATTTTACTTTTCCCAAATCATAAAGTTTTGG  
GAATCTGCTG  
>122.1  
ACCGCGGTGGCGGCCGAGGTACACACTGGATCTCCTTACTCATTTTTAAC  
CCTGACTGGGACACCAGAGACATGCTGCATCTTGATTAGGTGTTTCATC  
TTGCAGAAATGGCTGTGCTCCTGAAATATTTCTGTGAAGAAAATTGTTAC  
AATCCCATTACATCACTGGCTTTTATTATTAATGAATGTTGGCTGGAA  
ACAATTTTAACCCCAAATTGTGACAAACAAACTATATGGAAGGTC  
>123.1  
CGGGTGGCGGCCGCGCCGAGGTACGCGGTTGTGCAACTGCAAACCACTG

Table 3

AACCTGCTATGGC  
>123.2  
AGACTCCAAACAGTAAGGTCAGAATTTATCAAGACATTACATAGGAGTAA  
GGGCACAGCCAGGGGTGGTGGGG  
>123.3  
GGAAGGACATTTTCCAGCACTAATTAACAGGTTTTATGATTCACTAGGTT  
GGCCCAACTACTGTTCTCACCTAATCCCAGGCCAGCGTGTGAGGAGGCC  
AAATGACAC  
>124.1  
CTCCACCGCGGTGGCGGCCGAGAAATGTCGCCAACTGCCGTCTTCCCTC  
CTCGGCCGCTGCGACAAACACCCCAAAAATGGCGGCAGCGCCGTCGCCC  
TAGAATCCCCGAGTCGCCTCTCCCCGCGT  
>125.1  
ACAGACTTTCATTCAACAAATATTTATGCATCAGCTACATGCCAGGATCT  
GTAATAGATTCTGGGTGTGCAGTAGTGATTACTGCAGAATGCAGACATGG  
TCCCTGCATTCTTGAGAGGGGAGACAGCAACCAAATAAAACAATTACAAAA  
AGTATGTAACATAATTAACAAGTGGGAGAAGGGAGTGGGATTACACAGCAG  
AAGTGGAAGGAAGGGCCCACTTAGAGTGGTCAAAGGCTTCTTGAAGGTAA  
CATGTAAGCTGAGACCTGAAGAAGGATGCAAAAGGGCCAGCATGTAAGGA  
ACAGAGAATAAACATCCCAGAAATAGAAAATAACACACAAAAACCTAAAG  
TCATTAAAGAACATGATCATCTTTCAAGAACTAACCCCTTGAGATCAGAGT  
AGTTTGATTATAGAGGAAAGGGGTGAGTGCAATGAAACGTTAAAAATAGC  
CAGATCACGTAGAGCTCTCTA  
>126.1  
AGCTCCCCGCGGCCGGAAGAGCAACCGAGATGAAGGTGAAGATGCTGAGC  
CGGAATCCGGACAATTTATGTCCGCGAAACCAAGTTGGACTTACAGAGAGT  
TCCAAGAACTATGATCCTGCTTTACATCCTTTTGAGGTCCCACGAGAAT  
ATATAAGAGCTTTAAATGCTACCAAACTGGAACGAGTATTTGCAAAACCA  
TTCCTTGCTTCGCTGGATGGTCACCGTGATGGAGTCAATTGCTTGGCA  
>127.1  
GGTACTGAAAGTGAGGTGAAAAACAAGAAAGCTGAGAGAAATCAACATG  
TTCCCAAGTGCTGTATGTGAACAATAAATCTGAGACATACCTCTAAGGCT  
TTTCCAGAGACAAGAAAGCTCTCAACCTGTAAAGAATTCCTGGGACATGA  
CTGAGAGCAATGAGAACTCCAGGCAGAAGGTTAGCAGATATAGTGTAGAG  
CATACACAGATATACTATAGTTCATAACACTGGTGGCTTAGCTGTAAATC  
ACAAAATAGCACTGGAATTATACTAGTGATCATAGCACATAGTCCAAGAA  
GAAAAAATTTGATCTTGTTCTTAACTTTGTGGAGCCAGTGGTGAATG  
AGTCACACAAAGATGCAACAATG  
>127.2  
ATGAACCCAGCCCTCTTTAGACTAACATATTCTTGCCCATCACCACCAAT  
ATTACAATAAAAATCAAGACACATGAAGGAGCATACCT  
>128.1  
TTGGAGCTCCCCGCGGTGGCGGCCGCTGTGAAACAATGCTCATAGCTCTT  
GAAACGACAGCGATGTTTCCGTAACGGCATCTTAGCACGAAAAAGCTCCA  
CGGTCTCATTCCACAGCCTGGTAGCTCGGT  
>129.1  
GTGGCGGCCGCCGCGCAGGTACAGTCAAGGCCGAAAACCACTGAGCTTTT  
CCCTCTGCCTGGCACATATCCACTGCCCTGCCTTCTTTCAGCTGATGAAC  
TCTTCATATGCCTCCTTTTGGGTGTGAGTGGAAATGTCACTTCTTTCTAG  
AAGCTTCTCTGGCTCTCCAGCCTGGCCCAGGGCTCCAGCTATGAGCTTC  
CATAACACCCCTAGTTTTCTCACATTGCCCTCATAGTATATGGAATTTG  
TTCATTCAATTGCCTGGCTTCCAACAGATGCCAGCTCCAAGAAGGCAGGA  
GCTGCTTCTGGGTATTGCTTGCCATCAAGGCCCTCACACCCAACCTAATG  
CCTGGGCCAGAGTAGGTGC  
>131.1  
TGAGCTCACCGCGGTGGCGGCCGCCGCGCAGGTACCTATCTGCAGAACGG



Table 3

TCATTAGCAGTTTTTCCAAACAAGCGACTTTTAGCAAATTAACCGTTAAT  
TTTAATGAGATTCAAAAGTTAATAGCCATTCTTAACGTTTTATAATTAGA  
AGCTGTTATATAATTAGAGCTGGACACCCACATGGAGAACTAATTTGAC  
TGTGCTGCATTTGACTTCACTTTGGTAACAGGAAGCACTTTTTAGTCTGT  
AGACCCTTGGGAGTTGTAGGGAGTTAAAGCTGATCATTATATACTATTAT  
ATACTTAGGGATACAACCCAAGGGCAACCCCTGGCCTTTATGAAAACCTG  
GAGTGAGTTATTATTTCTGGTAATACAATTCTCTGCCAGCCAGTTGCTG  
CATCAAAACAGTTCTGATACACACACCTAAAGTCACCACTTCCTCATTCT  
GGTCCCAATAACCCCTATAAGCCTCTCTCCTGTAGGTGACCTCTGCCCT  
GTGAAGGGTTGGCTCACCCAAGA  
>132.1  
GTGGCGGCCGAAACCGTGGTGGCCGTGATCGTGGCGTTGGCGGACGGAAC  
CTTGAAGATGTTCTGGGCGGCCAGCACAAATCGCCGCTTGCCGACGATGA  
CATTGTTGGCCTTCAGCCCGTCAATATCGCCCTTGATGTCGATGTTCTGG  
CTCTCCTCATCATGGCTCAGCGCAATGGCGGCGTTGCGCTTGCCGGTCGC  
CTCCACGAGGAACAGGGCTGCGGCCGTGACACATCGCTGGACGCGAGGG  
TCAGGTTGCCCTGAAGCAGCCCCCTTCTTGCTCTGGGTGACATCACCGCGC  
AGCCGCGTGCCGCCGCAATGAACCTGGATATTGCTCAGGCGTTTTCTGTC  
CTTGTCAGGGCAAGTTCCGTGGCAAGATCGGCCCGCACGCCGTGAGGA  
ACGCCAGACCGGATACCTTGCCGTCCGCGCGTCTTGACAGAAGTCCGT  
GAAGGAGAACGCGCCTTCCTGAGCTTGCCCCGAAAGTTTGCCATCC  
>133.1  
GTGGCGGCCGAGGTACGATAATTCATGCCAATTTCTTTGGGAATACTTGT  
TTCTGATATAATAGGTTACAAAGCAAAATTGAGATGATTTTTAAATGCC  
ATGCAGTTATTTTTCTGAATAACATAAAATTTAAACAGAGACCTGAAAA  
AAACCCCAAAAGTATTAACCTTTAAATACATAAACTCAATAGAAATAATT  
TAACTGCCCTTCTTTCACAAGAGGCAATCAGAAGGCAGGACTATAGTTTT  
CTGTGTTTTCTTCCACAGGAGAGATAATTACATTTCTAGAGACCCATAG  
AAACAATTCATAGTTTTAATTTTCATCTCTCTATCTCT  
>134.1  
GGATGCAGCCAATTTCTTTGTCAAGATTGGCTCCATGCTGTTATTTAATC  
AGGTGTTTCCTACTGTGTAGACAAACCTAACAGCTCTCCATCTTAAAAA  
GGAGTGAGGAATTGAGCTGGACAGAGATGTGCATTCCAAATTTTTCTTTC  
CCTTTCATAAAGACTTGATCGTCTTATTTATCTGGATTGGCCATACACAG  
TAATCTCACTAGCTGACAGTTGCTTCCCGCGT  
>135.1  
AGCTCCCCGCGGTGGCGGCCGAGGTACCTCTCCTGCAGGGCCCTCCATTC  
AGGTCTTCTCTGGAAAACCCCTGGAGGAAGCGCTCCTGTTGCAGTCGGA  
GTGAACACCCGTCTTGTTAACCACAGCAGGGGGATTCTTTCTGGAGA  
GTCCATGTAGTCATCATCTCTTTGACCTCTGCATTTCCCCCAGAAAGGC  
GAGCATGTTACTTGTCTCTTGGGATCCGAATGACAACTCCACCAGATG  
TAAATCACTTTCTAAACAACTATTTGACAGACTGCTCCACAAGTCATCA  
TTCTTAGCATTTCTATAGCTGAACCTCTTTAAGT  
>136.1  
CGCGGTGGCGGCCGAGGTACTTAAAAGTATATCAGGGCAGTTTCATGCCA  
GGGAGCCAGGGAAGGCACCCAAGGAAGTGATGGAAGAGTAGAAGTTCACC  
AGGTGCAGCTCAGGAAAGGGCTCAGCAAATTTCTCTGTAAACAGGATGCAG  
ACCCCGCGT  
>137.1  
GCGGCCGAGGTACTAAATTTAGCAACTTTATTCATGAGGAACACCAGTCC  
AATGGTGGTGCTCTTGCTCTCATGCTTACATGGATGAACTCTCATTTTT  
GTCTCCAATGGAGATGGAGAGATTTTCTGAGGAGTTTCTTGCTTTGACAT  
TCAGTGAAAATGAGAAAAATGCTGCTTACTATGCTTTAGCAATAGTGCAT  
GGAGCGGCTGCTTATCTCCAGACTTCTTGACTACTTTGCTTTTAATTT  
CCCCAACACTCCAGT  
>138.1

Table 3

CAGTTTGCATACATGCTAAACAGAGAAATGTCCTCAAAATTCAGTTACTA  
AAAATTACTGATATCTCCATGATTAGAACCACACTGTGGTTGTGTGTGA  
GTCAAAGGAGGAGAATTTTAAATGCTATATAAGCATAAAGTATAAAGTCT  
ATTACAAATAAATATTCCACAAATTTGGAAAGTTATTAGAGGAAGAATTT  
TTTTTCTTGTAAATTTCCAGGTGTTTATATTAGTTGGGCCATAGTGAAAA  
TTACATGGAGGAAAGAAAATAGGAAAATAAGTCACAGAAAAAGAAAATCA  
AAACAAA  
>139.1  
TTGGAGCTCCCCGCGGTGGCGGCCGAGCCCAATTCTTGATTTCTTTCCAT  
CCCAAACCTCTTAAACTCTTGACCTCTGCAATTCAAGTTGTGAACATGAA  
ACTTGTCTATCACCAGCCTCTTCTCTGCATTCTCTTTCCCTCCTTGCTAT  
GCTAAAACCTGGATGGCCTCTGAAGATACTGCTCTTACCCCTCTGAAGG  
GGGCTCCTCAAGGGAAGGT  
>140.1  
TCACCGCGGTGGCGGCCGCTGTGAAACAATGCTCATAGCTCTTGAAACGA  
CAGCGATGTTTCCGTAAACGGCATCTTAGCACGAAAAAGCTCCACGGTCTC  
ATTCCACAGCCTGGTAGCTCGGT  
>141.1  
TGGCGGCCGAGCCCAATTCTTGATTTCTTTCCATCCCAAACCTCTTTAAAC  
TCTTGACCTCTGCAATTCAAGTTGTGAACATGAAACTTGTCTATCACCAG  
CCCCTTCTCTGCATTCTCTTTCCCCCTTGTTATGCTAAAACCTGGATGG  
CCTCTGAAGATACTGCTCTTACCCCTCTGAAGGGGGCTCCTCAGGGGAA  
GGT  
>144.1  
CTCCCCGCGGTGGCGGCCGTTGCCCTTACATCTCTCATTGGAAGTGACA  
GGTATTAATAACGGCATATGAAAGCTTAAAGTCATCAAATACAATCAC  
TGGGTACTTTTCGATTACCCAAACCAGGCACTTTCCTAAACTCCCACTTC  
TTTACTTCTGCGGTCTCCTTTCTTTTATTCCCCGCGT  
>145.1  
ACCGAGCTACCAGGCTGTGGAATGAGACCGTGGAGCTTTTTTCGTGCTAAG  
ATGCCGTTACGGAAACATCGCTGTCTGTTCAAGAGCTATGAGCATTGTTT  
CACA  
>146.1  
CCCGCGGTGGCGGCCGTTCTGCTTAGCCAGTTTATTCTTTATTTTTTTAC  
TGGAGTCATTGCCAGTGATGGAACGGTGTTTGCTTCTTTTCAAGTCAAG  
ATCTGCACAAAGTATAGCATTAGGTGGTATTTATTGTTTATATTATGAGT  
TCTACATTCTCTTTCCAGCACTCTGAAGTTATCAGCAAGTTCTCAGTCA  
GTTCAAGGCATTGGATTCTGCTTGATTTCTTTTAAATTCATTGTTTTGA  
CCCCTTTGAGAGTTTTAATAGAGAGGAGTCTGGAAGGCAGAGATCTCCAC  
CACCTAACCGTGAGAAATTTGGAACCTAAGGACTTGCACTGGTCCCCAAGT  
TAACAGTGGATATACTTCTGCA  
>147.1  
ACCCAAGGTGGGCATTTTTTTAAAAAACCCTGGAATAAATGCTACTTC  
TTGTTAGTGTTGTTTGAAAAATAACAAAGAAAATGCAACAAAAACAAAA  
CCATGGTCCATTCAAGCTCAAGAGTATTTAACCAATGCTCTGTTGCCTCT  
TAAAGGATTGGTAGCTATTTCCCATCTACAAATACATGACAATTAATA  
AGCCCAATTTCTTTAAACTATCTGGAATTAGGTCAAAATTATCTAATTTT  
TTTCTGATTTAATTATGGATTACGTAATCCAATAGTTGGCAACATTATAA  
AACCTAACTTACCTCATTGTTTGGCTATACCAGGTCTCATGACTCTGG  
ACATAACCACCA  
>148.1  
GTGGCGGCCGAGGTACCTATGTGCGCGGTGGTAGAAAAGCACCTGGGTGCG  
GGTGCAAGTCTGCGGAGCGGGCCCTACCGTGTGCGCAGAAAGAGGAGGCGC  
TGGACTTATCCTACCTTAAGTTGAAGCAGACCAGCAATTGTTGTGACCTA  
CAATCTCCACACCCATCTTTACTCTGAGCCAAGGAAGTGTCTGTTCTTGT  
GCTGAGTTTCAGGGGCCCTCAGCTTGCAGGAAATCCCGAAGATGGCCAAA

Table 3

GACAACTGAACTGTTGCTTGCTCCAGGGCCTGCTGATTCTTGAAATGT  
GATTATTGGTTGATGCGGCATTGCCCTGACTGCCGAGTGCA  
>149.1  
TTGAGCTCCCCGCGGTGGCGGCCGAGGTACCTTCCCCTGAGGAGCCCCCT  
TCAGAGGGGTGAAGAGCAGTATCTTCAGAGGCCATCCAAGTTTATGCATA  
ACAAGGAGGGGAAAGAGAATGCAGAGAAGAGGGCTGGTGATAGACAAGTTTC  
ATGTTCACTAATTTGAATTGCAGAGGTCAAGAGTTTAAAGAGTTTGGGATG  
GAAAGAAATCAAGAATTGGG  
>150.1  
GGTGGCGGCCGCTGTGAAACAATGCTCATAGCTCTTGAAACGACAGCGAT  
GTTTCCGTAACGGCATCTTAGCACGAAAAAGCTCCACGGTCTCATTCCAC  
AGCCTGGTAGCTCGGT  
>151.1  
CCCCCTGAGCCATGGAAGATACTGGAGTTAACAAAAATTTTATAAACTA  
AAGAAAGCAACTTTATAATCTAAAAGAAAGCAACTTTCCCTCCTGTCTTT  
TGAATTCTTATTCTGAAAGAATGGATAATGAATCAGGAGATGAGCAAAA  
ACGTATCTTTTACAAAGCTCTAGTCTTCCAAAAGCCTCTAAACTCAAACG  
AAACCTTTTTAAAGTAGTTTTGTAAAAGCTCAAGGTATGCCATTTCCAGA  
AAGTTGCAGATGAGCACCATTTGGCATTACCCAAATTCTGTACACATTGA  
GCAATGAAATTCAGGAATTGGACAATGACCTCTTGGCATATGAAAGAATT  
AAAAGAGGGGC  
>152.1  
GCGGCGGGTCCACCTAAAAAGTCACTGCAGCAGAGAAGAAAACATTGGAC  
AAAGAAGAAAGGCGACAGAAAGGCTAGAGAGAGGCGAGCAGAAATTGCTTGC  
GGAGTTTGCTTACGACAGAAAGGCTTTATGGAACTGCAATGGATGTTG  
ATTCTCCTGAGAATGATATTCTATGGAGATCACCACGGCAGAACACAG  
GTTTCCGAGGCAGTATATGACTGTGTTATTTGTGGACAGAGTGGCCCCCTC  
CTCTGAAGATCGACCTACTGGATTAGTTGT  
>153.1  
GGTGGCGGCCGAGGTACACCTGCAACTGTGCGAATGGTCCTGTTGCCTCC  
TGCATTTTGCCTCTGTTCTATAAAGGAAGAGTAAAGATGGAGCTCCTCC  
TGCCTCCATCAGAAAGCACATATCATCTGTCCCTTTGGATTTACTTCC  
AGGACGCGTGTGCTCCCCAGCGTGTGTTGCCTTATGGTGCCGGCAGAGCC  
TCAGCTATCTGCCTGGGAAGTCGGATGTCCTTGGAGAGAATTTGGAATGC  
AGATAATTTTTCTTATTTCTTGAGAGCTTACTTTAATCAGCATGACACTA  
CCTAAACACTGAAGATGGCCTTATATTAGTAAGATTTGCACAAAATTAAG  
TATACCTATGCAAACATTACTTTGGTTTTTAGGAGTTTGGTCAGATGAA  
GAAGTAATGGGATCACATATATATGTAAG  
>154.1  
TCCACCGCGGTGGCGTCCGGCCCCCGCCTTTTCTGCGGCTTTCAGCGCGC  
GTTTCAGGTCGTCAATGAGGTCGTGCGCATCTTCGAGACCGATGGACAGG  
CGGATCGTGCCCTGGCTGATGCCTGCGCCCGCCAGCGCTTCGTGCTCAT  
GCGGAAATGCGTGGTGTGCGCCGGGTGGATCACCAGGCTGCGGCAATCGC  
CCACGTTGGCCAGGTGGCTGAAGACCTTGAGGGTTTCAATGAACCTCTTG  
CCCTGCTCGCGTTGCCCTTGAGGTCAAAGCT  
>155.1  
GTGGCGGCCCGCCCGGCAGGTTTAAAAAGAACATGTATAACGCTTAGCAA  
ACCCTTTTTAATGTTCTGAAGTCAGTCTTTGTAAGTGAAATCGCTGGAGA  
CTAGAAAGTATGAAATGGCAGTCTACCTGGGCAACCTACAAAAAATTTAG  
CTTGAAAAGACTTCAGTCTCCGCTCCCCTGTTGATCTCATGGAGTGGGGA  
ATGGGAATTGAACCAGAACTGGAATAATTATTTAGGAAAGTTTGTAACTA  
CTCTTTGTTGATCTCATGGAGTGGGGAATGGGAATTGAACCAGAACTGGA  
AAATTATTTGGGAAAGTTTATTAACACTCTTTCTGCTGAGTAAATTTAA  
ATGTGTTCTGGACATTGTTGAGGTCTAGAATTGTCTATACAATGCCCTGT  
ACC  
>156.1

Table 3

ACCGGGCTGGCGGTGCGCCCGCTCTGGTGCTTGCATCTTGGCTTCCTATAG  
CTTTCTTTTTTACAGAGGCCATGAAATGCAATCCAGCTGAAGTATTATCA  
TCTTGTAGCATTTCAAAAGGAACGTCGAAGTCATCCAAAGGATGGGAACC  
ACAATGTTCTTGTGTTCCCTTGGGTTTCTTAATGATTTCTGAATCATCAT  
TATTAATTATGGAATTCTCTGGTTCGAAAAGTCACATTTGGTTTTCTCCTC  
AGTTTCTCACATCTTTTTCTTGCAGCTCTTTCTCAGCTCTTCTCCTTG  
CCTTTTTTACTGTCCCTTTCCTTGTCTTACTTCAGGT  
>157.1  
CGGGGGCGGGCCGAGAAATGTCGCCAACTGCCGTCTTCCCTCCTCGGCCGC  
TGCGACAAACACCCCAAAAATGGCGGCAGCGCCGTGCCCCTAGAATCCC  
CCGAGTCGCCTCTCCCCGCGT  
>158.1  
TGGCGGCGGACTCGCTGACCAGACCAGGCCCCAGGGCCAGCTACTCGA  
AGAACAGCCAATGGATTGGAACGTCCTAGGACAGATGCCACGGCTTTGAC  
CCAGGCTGGGGGTGCACGGATCTCACTGGGGCTAGTTGGTGGATGGGAA  
AGCCCCATGGGTCCACCAGGATGAGGTGTTTAACTCTATCAGGGT  
>159.1  
ACACAGGACCAATGCTGCCCATCCACATGGAATTTACAAACATTCTACAG  
CGCAAAAGGCTCCAGACTTTGATGTCACTGGATGATTCTGTGGAGAGGCT  
GTATAACATGCTCGTGGAGACGGGGGAGCTGGAGAATACTTACATCATTT  
ACACCGCCGACCATGGTTACCATATTGGGCAGTTTGGACTGGTCAAGGGG  
AAATCCATGCCATATGACTTTGATATTCGTGTGCCTTTTTTTATTCTGTG  
TCCAAGTGTAGAACCAGGATCAATAGTCCCACAGATCGTTCTCAACATTG  
ACTTGGCCCCCACGATCCTGGATATTGCTGGGCTCGACACACCTCCTGAT  
GTGGACGGCAAGTCTGTCTCAAACCTTCTGGACCCAGAAAAGCCAGGTAA  
CAGGTTTCGAACAAACAAGAAGGCCAAAATTTGGCGTGATACATTCCTA  
>160.1  
ACACAGGACCAATGCTGCCCATCCACATGGAATTTACAAACATTCTACAG  
CGCAAAAGGCTCCAGACTTTGATGTCACTGGATGATTCTGTGGAGAGGCT  
GTATAACATGCTCGTGGAGACGGGGGAGCTGGAGAATACTTACATCATTT  
ACACCGCCGACCATGGTTACCATATTGGGCAGTTTGGACTGGTCAAGGGG  
AAATCCATGCCATATGACTTTGATATTCGTGTGCCTTTTTTTATTCTGTG  
TCCAAGTGTAGAACCAGGATCAATAGTCCCACAGATCGTTCTCAACATTG  
ACTTGGCCCCCACGATCCTGGATATTGCTGGGCTCGACACACCTCCTGAT  
GTGGACGGCAAGTCTGTCTCAAACCTTCTGGACCCAGAAAAGCCAGGTAA  
CAGGTTTCGAACAAACAAGAAGGCCAAAATTTGGCGTGATACATTCCTAG  
TGAAAAGAGGCCAAATTTCTACGT  
>161.1  
GGCCGAGGTACCATCCTATTAATACTAAGTTCTGCTTCTACATACTGTAG  
ACCTTTCTGGATGATAGAAATCAATGCAGCGGGTGGGACGAGGGCACCAT  
TTATATTGGACTGACTGATATGGCTTTCTATACCAAAGGTAAATGCTGAA  
TGAGAAAATCCTGACTCTTGCAAGTATCTATATACCAAGAAGTTGACCTC  
ATCACTGCTTATACTCATCTTTATTCCCACTTAAACCATGAGGTCACACC  
ACAGGATATAACCCATTGGCAGTGCATTGATGTGGGGATGTGCAACTGAA  
TATCCGGGCACCGCCAATCACAAGTTGCTGTTGTTGATGCTGGAAACGGT  
GGCCTTCAACGCCGCTTCCCCCTTCCGGGAATCCCCGCG  
>162.1  
GGCGGCCGAGGTACCTGGCCTGCTGGCATAGTTCTTTGACCCGTTTCATAT  
TTGGGCAAGTGATTTGACTGTTGGATATTCTTGCTGGATTCTCCTCTTCTT  
ACGTAGAAATTTGCCTCTTCCACTAGGAATGTATCACGCCAAATTTTGG  
CCTTCTTGTGTTGTTGAAACCTGTTACCTGGCTTTTCTGGGTCCAGAAGT  
TTGAGGACAGACTTGCCGTCCACATCAGGAGGTGTGTCGAGCCCAGCAAT  
ATCCAGGATCGTGGGGGCCAAGTCAATGTTGAGAACGATCTGTGGGACTA  
TTGATCCTGTTCTACACTTGGACCACGAATAAAAAAAGGCACACGAATA  
TCAAAGTCATATGGCATGGATTTCCCCTTGACCAGTCCAACTGCCCAAT  
ATGGTAACCATGGTCGGCGGTGTAAATGATGT

Table 3

>163.1  
TGTACATTGTCTTAAATCTGTGGCTTGCCTGTTCAATTCATTAGTGGTG  
TTTTGTTAAGCAGTTTTTAATTTTGATGAAGTGTAACCTATTCATTTTTT  
ATTATGGTTATTGCTTTATGTTTCAGGTCCCAAATTTTGCCTTCTCACAA  
ATCACAAACATTATCCTATGTTTTCTTCAAAAATTATATG

>163.2  
TACTAAAGAAATTTGAGGGATTTGCTATAATGTTAGGGATTTTTCTAGAT

>164.1  
TATTTAATTTCTTAGTGTCTCAATTTCTCCTCTATAAAACAGAGATAAT  
AGTATTTAGCCCAGAGGGTTGTGGTGAAGTGT

>165.1  
TAGTAATCAACCTGTTAATCCAAGGTCTTTAGAAAACTTGAAATTATTC  
CTGCAAGCCAATTTTGTCCACGTGTTGAGATCATTGCTACAATGAAAAAG  
AAGGGTGAGAAGAGATGTCTGAATCCAGAATCGAAGGCCGTCAAGAATTT  
ACTGAAAGCAGTTAGCAAGGAAAGGTCTAAAAGATCTCCTTAAACCAGA  
GGGGAGCAAAATCGATGCAGTGCTTCCAAGGATGGACCACACAGAGGCTG  
CCTCTCCCATCACTTCCCTACATGGAGTATATGTCAAGCCATAATTGTTT  
TTAGTTTGCAGTTACCCCTAAAGGTGACCAATGAT

>166.1  
TGATGAGCTCTCTAATCAGCAGGACCAAGGTGTGAAGTGGGAATGAACAT  
GGATCCATCCCATTGGATGGAGAAGAAAGGTGGACAGCCTGTTTCGTCTCT  
CATGTCAGCCTAGGGCTGGGAACAGTTTGTGAGGACTTATCTGTTGTACC  
T

>167.1  
AGCGCAAGTAGGTCTACAAGACGCTACTTCCCCTATCATAGAAGAGCTTA  
TCACCTTTCATGATCACGCCCT

>167.2  
CCCCTACCGCCAATCCCTTTTTACAATAAAACAGGACCGAAGGGTCCAAA  
C

>167.3  
ACCTTGAAACCCCTAACCGAAGTTACCCTTCGGGCCCGCTTCTTAAGAAA  
CTAAGG

>168.1  
CCGACGCTGGCATTGCATCTTCAGGAGACGCTCGTAGCCCTCGCGCTTT  
TCCTAGGACAGTTCGCGGAAGAAGTGGCTCACGCCTTCCAGAGCCACATC  
ATCGCGGTGCAAAATAGAAGCCCAGAGAGAGGTAGGTGTAGGAGGCCTGCA  
GGTACCTCGGCCGCTCTAGAAC

>169.1  
GGCCGCCCCGGGCAGGTACTTCCACTATTATTGAATGTATTCTGTATTATA  
ATTGTATATTTGATTGCCTATCTCCCCTCAACTGCATTATACATTTTCAT  
GGGTGAGCCAGTGTCTTTTCACTCTATTTTCAGTGCCCTGCACATTTTCT  
GGCACATAGTAAGCAT

>169.2  
AAAATACTAAATCCGAAATGCTCATAAAATTCAAAGCTTTTTTGAGGAC  
CTGACCTCGTGCCTCAAAGGAAATGCTCATT

>170.1  
TGGCGGCCGAGGTACTTAGCTGTGTTTTTATTCAAAGTCTACATTTTATG  
TAGTGGTTAATGTTTGCTGTTTATTAGGATGGTTTTCACAGTTACCATACA  
AATGTAGAAGCAACAGGTCCAAAAAGTAGGGCATGATTTTCTCCATGTAA  
TCCAGGGAGAAAACAAGCCATGACCATTGTTGGTTGGGAGACTGAAGGTG  
ATTGAAGGTTACCATCATCCTCACCAACTTTTGGGCCATAATTCACCCA  
ACCCTTTGGTGGAGCCTGAAAAAATCTGGGCAGAATGTAGGACTTCTTT  
ATTTTGTTTAAAGGGGTAAACACAGAGTGCCCTTATGAAGGAGTTGGAGAT  
CCTGCAAGGAAGAGAAGGAGTGAAGGAGAGATCAAGAGAGAGAGAAACAATG  
AGGAACATTTTATTTGACCCAACATCCTTTAGGAGCATAAATGTTGACAC  
TAAGTTATCCCTTTTGTGCTAAAAATGGACAGTATTGGCAAAATGATACCA

Table 3

CAACTTCTTATTCTCTGGCTCTATATTGCTTTGGAAACACTTAAACATCA  
>171.1  
GGCGGCCGCGCCGGAGCGGCGCGGAGCATGATGGAAGTCGTAGTAGGAAAT  
GGCGTCGTGGCATTGAGGGGCATCCCTCCTAGAACCTCCAGGAAAAGCTC  
GCGGAAGACGAGGTTCTGCGGAGAGAGAGGCTCCAAGCAGTCTGGGAAGT  
GTAGTCCAGTTGGCTTAGCAGTAGTTTCGTTGGGGGGGAGCCGAGGTTCC  
GGCAAGGGGCTAGGCCGGCTTGAAAAGAGATTATGACTGTACCTCGGCCG  
TCGAGCGGCCGCGCGGCAGGTACAACCTTTTATACAACCTCAGGAGATTAA  
AAAAAATCTCCACAAGAAGAAGCAACTCAGCAGGCCCTGGCATTAAAAC  
ATTTCCAGATAAACAGATATGCATTGCATTAAAGGTAATTTTCAAATA  
TTTAAGTTACACCAAGATTTCCCTCCAATATGTGCCTTTCTCAAACCAAT  
GCAACTAATTCATTGCTAATACTGGGGCATGAATTTTGGCAAATGTTTA  
TGGTTTTACTTTCTTCATTAATCAAAAAATTTTTTAAAGTGCTACCAAGC  
AGCAAAACATGTGCGATCAGTTCTCTGCTCATGGCAGAAGTGCCCACTGT  
GAAA  
>172.1  
GCGGCCGGGTACAGATTTAAGGTTGATGGACTCAGGGTAAGGATAGCTAC  
AGCTGTGTGGGGCTGAAGGTCTGTGGCACTGAGCTACTGGGGAAGGAGGG  
CTCTGTTTTTCATTGTGACACACTGAGTTAATAAAGCACTTACTGAGGGAG  
CCAGAGCCCAAACTCTAAATGTGCTGTAGAAAAAGGGCCAAGTCATTGAC  
TGCACCACTCCTTCAGCCAGAGGTAGAAAGGATTTACTCTTCAGCCATCT  
GGTAGAGCCCCAAGAACAAGTTACATGTGGACAAAGGGAGGGAGAGGTAT  
CATGGTGATTAATAAATTCAAACAAAGCTGAATGATAAGACCCCAGGATG  
GAATACAGTCTGAGAAAGGCCTGGGCAAAGGGAGGCAGAGGGACTGAAGG  
AAGCAGGTCAAGGAAGATACAC  
>173.1  
TGGCGGCCGAGTACGCGGGATAGGTGGAAAAAACACTGCCATTCACAAG  
TCAAGGAACCCAGGGCCAGCTGGAAGTGTGGAGCACACATGCTGTGGAGC  
ACACATGCTGTGGAGATTGCAGTGTGTCTGAGGTTTGTGTAGTAGTGGA  
GATTTTAGGTATGTAGAGCAAGTTGAAATGGATTGAGACTGCATGGGGGC  
ATAAATGAGAAATTGCCTGTAGCATCTAGTCTACTTGAAGGAAGTGGAGA  
CATAAGGAGAGACAAAAACAGGTTTGTGCCATAAAGTATTTTTTCAAAGA  
CACCAAGATGTGGGTAAATGAAAATTATTAGTTCAC  
>174.1  
GGTGGCCGAGCGGCCGCGCCGCGGCAGGTACCACTAGGGTGTTGTTAAAGGA  
CTTGATAACCAGCTTGAAGAGGTTCTACTGACCAGAAATGGAATGAAAT  
TTAAGCATCAATAAGGGTAATAACTGCAAGAGACTGACATCCACTATGGT  
TTAAATCCATGAGGTCACAATGATACTTAATTTTTTCATTATTCTGAAAAC  
CAGTAAATAAAGGCTAAGATTCAACAAGCATTTATCCAGCCTTTCCTCAA  
TGAAATATATCTTAAGAGAACCGAA  
>175.1  
AGGTACCAAAACCTGGGGATTAAGCTAAGAAGTCTGGTGGAGAGACTCTG  
TGGACGTAAAGAAGGGAATGAACACAGAGAACTTTTCCAGCCAGATTCCTG  
AGTGTACCTGAACAAGAAAAGTCAAACCTGGAGTGAAACCATGCAAATGC  
AGCGTGTGTGGGAAAGTCTTCTCCGTCAATTCATTCTGGACAGGGACAT  
GAGAGCTCATGCTGGACACAAACGATCTGAGTGTGGTGGGGAATGGAGAG  
AGACGCCCCGGAAACAGAAACAACATGGGAAAGCCTTCATTTCCCCCAGT  
AGTGGTGCACGGCGCACAGTAACACCAACTCGAAAGAGACCTTATGAATG  
CAA  
>176.1  
ACGCGGGGTGCTGTGAAGAGCTTTGCATTGTGGGAAGTCTTTCCTTTCTC  
GTTCCCCGGCCATCTTAGCGGCTGCTGCTGGTTGGGGGCCGTCCCGCTCC  
TAAGGCAGGAAGATGGCGGCCGCACAGAAGACGAAAAAGTCGCTGGAGTC  
GATCAACTCTAGGCTCCAACCTCGTTATGAAAAGTGGGAAGTG  
>177.1  
TCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTATGAATTA

Table 3

TTTATTTTCTTTCTCAGAAAAGGATGCGCCTCCACTTAGCAAGGCTGGGC  
AGGATGTGGTTCTGCATCTCCCCACAGACGGGGTGGTTCTAGA  
>178.1  
TGGCGGCCGCCCGGGCAGGTACCAAACCATTTTCACTAGTTCAGGATAGG  
AATATTCATCAGATTGTCTCTGTAAAAGTGAATCACAAAAATTCACCTG  
TGTAGGTGTGGGACTGGACAGCTGAGTGACAGGGCCCTGGGAAGAACAGA  
AACCACTTTTCTCTTTCTCTGAAATATCAGAAGTTAAAAATCTACTCT  
GAGTTATATGTGCATCAATTTTAGACATATTGCTGATTTTATTATGAAA  
TGAAGTGCTAAAGACAAAGGATATTTCCATTCTCTGGACAGGCAGCCAC  
AGACCAGCACTGCTTGACCCATGTGTATACACATGTGTGCTTTGT  
>179.1  
CGAGGTA CTACAGTCACGCAAATTCAGTGTCTGCGTGACGGCTCTCCA  
TTCTTCTTCTTGGCTTTACAGGTTCCAGGTCAAGAGCTTCACCCATAAT  
TAAGACCTTCTGAGGATGAGCGATAGATAAACACACCTCCTCTGAACCAT  
CCTTGGGCTTCATGGGGTTGGCATTGAGGATCCCTACGACAGTCCCCTGC  
TCCGTCTTCCAGAGCGCTTTGTGAACCTCTCCAAATAAGAACAAGGACAC  
ACATTGTGTCAGGTACGAAGATCATTCACTTTCCATATGCTGAAGGTTT  
TTCCACTATTCACACTCTGTGGCGTAACCTTCTTCAATATAACCCCAAAT  
GTCACCCCAATCTATTTCTTCCAGCTTCTCTCTGGCCATCTTTTCTTGAT  
CTGAGACAGTCTGATCAGTTT  
>180.1  
GCGGCCGAAAACCTGATCAGACTGTCTCAGATCAAGGAAAAGATGGCCAGA  
GAGAAGCTGGAAGAAATAGATTGGGTGACATTTGGGGTTATATTGAAGAA  
GGTTACGCCACAGAGTGTGAATAGTGGAACCACTTCAGCATATGGAAAC  
TGAATGATCTTCGTGACCTGACACAATGTGTGTCCTTGTTCTTATTTGGA  
GAAGTTCACAAAGCGCTCTGGAAGACGGAGCAGGGGACTGTCGTAGGGAT  
CCTCAATGCCAACCCCATGAAGCCCAAGGATGGTTCAGAGGAGGTGTGTT  
TATCTATCGATCATCCTCAGAAGGTCTTAATTATGGGTGAAGCTCTTGAC  
CTGGGAACCTGTAAAGCCCAAGAAGAATGGAGAGCCGTGCACGCAGAC  
TGTGAATTTGCGTGACTGTGAGT  
>181.1  
GGCGGCCGAGGTA CTACAGTCACGCTCCTCTGAACCATCCTTGGGCTTC  
ATGGGGTTGGCATTGAGGATCCCTACGACAGTCCCCTGCTCCGTCTTCCA  
GAGCGCTTTGTGAACCTTCTCCAAATAAGAACAAGGACACACATTGTGTCA  
GGTCACGAAGATCATTCACTTTCCATATGCTGAAGGTTTTTCCACTATTC  
ACACTCTGTGGCGTAACCTTCTTCAATATAACCCCAAATGTCACCCAATC  
TATTTCTTCCAGCTTCTCTCTGGCCATCTTTTCTTGATCTGAGACAGTC  
TGATCAGTTT  
>182.1  
GCGGCCGAGGTACATGGATACGTTCTCTTCTGGGGGCGGTCTCCAGTCCT  
TTCTCATGAGGGAGCACACTCCTCTGCCTCATTGCAGTGGCCTCAGGGAT  
ATGGAATTAAGATCCACCTGGTGTGATGAATAAACCCAGACTCTCAGCAA  
CGCAGGAAAAAAAAACAAAACTGGCTGGCGATCTGGAGTAAAGGATCCTC  
ACATCCACGTGAACCAGGAACTCTGTGCCCAAATCGACGAAAAAAAAAAC  
ACTGGGAGAGCCGAACCTAAAAGTCTTTTAGCACGGGT  
>183.1  
GTGGCGGCCGAGGTACGCGGGGAGCGGAAAGGGAGACTGTGGGGAACTAG  
GAGCAACAGCAGGCATGGACCAAAGCAGTGAAGGATGTATGAAAAAGATT  
AGCAGTGTGAATCTTGACAACTTATAAATGACTTCTCACAGATAGAAAA  
GAAAATGGTAGAAACCAATGGAAGAACAATATACTGGATATTCAGTTGG  
AAAAAGTAATTGCCTATTTAAAGTAATGCAAGCAAAGGAGGTCTCCATT  
AAAGAAGAATGTGCTACTCTTCAATATAATAAAGGGCTACAACAGAC  
CATTGAATATCAACAGAAATTTGAAAGGTGAAAATGAACAACATAAAATAA  
GTGCTGATCTTATAAAGAGAAGTTAAAGTCTCATGAACAGGAATATAAG  
ATAAATTGCCAACTTGTAAAGTGAATGAAATCAAAGAGGAGGGGATA  
TAAGAAAGAAATAAGCAAACCTTATCAGGACATGCAGAGAAAAGTTGAAT

Table 3

TAAATGAAGAAAAGCACAAAGAACTAATAGAGAAAAAGGAGAT  
>184.1  
GGCGGCCGAGGTACATGGATACGTTCTCTTCTGGGGGCGGTCTCCAGTCC  
TTTCTCATGAGGGAGCACACTCCTCTGCCTCATTGCAGTGGCCTCAGGGA  
TATGGAATTAAGATCCACCTGGTGTGATGAATAAACCCAGACTCTCAGCA  
ACGCAGGAAAAAAACAAAACTGGCTGGCGATCTGGAGTAAAGGATCCT  
CACATCCACGTGAACCAGGAACTCTGTGCCCAAATCGACGAAAAAAA  
CACTGGGAGAGCCGAACATAAAGTCTTTTAGCACGGGT  
>185.1  
GTACGCGGGGGTGTCCGGCGATGGGCACGGGCATTTCTTCGTTTATAGCT  
GTCTGTTTGCATTCTGATTGGGAACACTGGGATCATTTTCATCATGCCGA  
CAGTGGTGGTAATGGATGTATCCCTTTCCATGACCCGACCTGTGTCTATT  
GAGGGGTCCGAGGAATACCAGCGAAGCACTAAGTAATATGGATGATTATG  
ACAAAACCTGCTTGGAGTCTGCATTAGTTGGTGTGCAATATCGTTTCA  
CAAGAATGGGGTGGTGAATTCCTTGCCAGGTTGTCCTGGTGACAGACGG  
CTGTCTTGGCATTGGTAGAGGGTCACTGGAACA  
>186.1  
CGCGGTGGCGGCCGAGGTACTCACAGTCACGCAAATTCACAGTCTGCGTG  
CACGGCTCTCCATTCTTCTTCTTGGCTTTACAGGTTCCAGGTCAAGAGC  
TTCACCCATAATTAAGACCTTCTGAGGATGATCGATAGATAAACACACCT  
CCTCTGAACCATCCTTGGGCTTCATGGGGTTGGCATTGAGGATCCCTACG  
ACAGTCCCCTGCTCCGTCTTCCAGAGCGCTTTGTGAACCTTCTCCAAATA  
GAACAAGGACACACATTGTGTCAGGTCACGAAGATCATTAGTTTCCATA  
TGCTGAAGGTTTTTCCACTATTCACACTCTGTGGCGTAACCTTCTTCAAT  
ATAACCCCAAATGTCACCCAATCTATTTCTTCCAGCTTCTCTCTGGCCAT  
CTTTTCTTGATCTGAGACAGTCTGATCAGTTT  
>187.1  
GGCGGCCGCCCGGGCAGGTACCAGAGATTCCAGAGAGTGGTCTTTGGAAT  
TTCCCAACTCCTTTGCTTCAGTGCCCTGATCTCTGAACTAACAAACCAGA  
AAGAAGTGGCAGCATGGACTTATCATTACAGCACAAAAGCATACTCATGG  
AATATTTCCCGTAAATACTGCCAAATCGCTACACAGACTTAGTGGCCATC  
CAGAATAAAAAATGAAATTGATTACCTCAATAAGGTCTACCTACTACAG  
CTCCTACTACTGGATTGGGATCCGAAAGAACAATAAGACATGGACATGGG  
TGGGAACCAAAAAGGCTCTCACCAACGAGGCTGAGAACTGGGCTGATAAT  
GAACCTAACAAACAAAGGAACAACGAGGACTGCGTGGAGATATACATCAA  
GAGTCCGTCAGCCCCCTGGCAAGTGGAATGATGAGCACTGCTTGAAGAAAA  
AGCACGCATTGTGTTACAC  
>188.1  
ACTTTTTTTTTTTTTTTTTTTTTTTGTAACACAGGTGTCAGATGCATCACA  
AAAGCAGAAGTGCCCTTTCAGCTCTTCTCTGTGCCATTCTTGTCAATTT  
CATGCTGCCTACAGCAACAGCATAATACTGCAACAGCCATGATGTCA  
>188.2  
TCTCTGTGATTGACAGAGAGGGACACGTCGTAGTCAAGAGGTGTGCTCCT  
CAGAAGAATATCAGAACTCAACTCGCTGTGCCTCCAAGGGGCTCAATCCC  
TTGATTTGAGGGGAGGGATG  
>188.3  
AGCGGATGGGAAGTGATACTAGGTATGTAAAGGATGGTCAGTTACCTCTA  
AATGTAAGTTAGACCAGGACAGCCAG  
>189.1  
GAAGGAAAGCAGCTGCAAACTTCCCATCTGCAGTGTTTGTCTCGGC  
TCCGGCCATCACTGCCACGATTACCCCTGGATGAATTCCTCAGTGGAAT  
ATCAACAAGACTCAGCCACCTGCACCCAGGTGATTAAAAAGCTTTATTG  
CTCACACAAAGCCTGTTTGGTGGTCTCTTACATGGACGCGCGGGACATT  
TGGTGCCCTGACTTGGATCAGGGGACCTCCCTTGGGAGATCAATCCCCTG  
TCCTCTGCTCTTTGCTCCGTGAGAAAGATCCACCTACGACCTCTGGTCC  
TCAGACCAACCAGCCCAAGGAACATCTACCAATTTTAAATCAAGAATAT



Table 3

TCTGTGAAAAAGACTAAGATATCAGAGAAAATTATTAGTGACATTATTAG  
AAGAGAGCTTCAGATGAAAAATAAAGATCAAGAAAAGACTCTTGCTTTGAG  
AAGACACAAAGAAATCACATCATCTTATTGGGATTACTGGC  
>190.1  
CATCGCCGTCCTTGGCTCACAGGGACTGGGAAGGCGATGCCTGGCGGGA  
GCTGCTGGTGGAGAGACTCGGGATGACTCCTGCTCAGATTCAGGCCTTGC  
TCAGGAAAAGGGGAAAAGTTTGGTCGAGGAGTGATAGCGGGACTCGTTGAC  
ATTGGGGAAAACCTTTGCAATGCCCCGAAGACTTAACCTCCGATGAGGTTGT  
GGAAGTAGAAAATCAAGCTGTACCCTGATGCTACAGACGAGGACATCACC  
TCACACATGGAAAGCGAGGAGTTGAATGGTGATACAAGGCCATCCCCGT  
TGCCCAGGACCTGAACGCGCCTTCTGATTGGGACAGCCGTGGGAAGGACA  
GTTATGAAACGAGTCAGCTGGATGACCAGAGTGCTGAAACCCACAGCCAC  
AAGCAGTCCAGATTATATAAGCGGAAAGCCAATGATGAGAGCAATGAGCA  
TTCCGATGTGATTGATAGTCAGGAACCT  
>191.1  
GTAATCCCTGGAAAGTCCAGCTGAGAAAGCGATCCTGCCCTCTGCTCCTC  
CCAGGGTTACCTCCTGTAAGTCTTCTGCTTAGTGTTGAGAATTGGGGGA  
TGCTGGGACTGGGCAAGGACTTGTAGGCAACACCCCATAGCCTGCTCATG  
CCTGTTGGGTTGCCTATGGATCATTCCCTGCTGGGCTCACTACCGGCTT  
CGTATAAGGTCTTTTTGAGGTTTATTATTTCTTGTCCATATACTTGAT  
GCTCTTCATTGGCTTGTCTGGGACCTGCCTTAGGTTCTCCGAGGCATAAA  
AGGGCCGGACAGCCCCGAGTTGGGGGAACTCTGAAGCTTCTTGGTGGCT  
GGAACCTTGGTCATCTTAAAAATCCTTCAGGTTTTAGCCTGTGCCCCCAA  
GACAAGGATTTTTCCAGAATCTTCTACTTCAGTAGTTACTGGTATGAGAA  
GTTTCGGCAACTTCTCCCTGATCCCCAAGTCCCAATTACA  
>192.1  
TGGCGGCCGCCCGGGCAGGTAATTTTTTTTTTTTTTTTTTTTTTTTTC  
TGGCTTGAAATACAGCTGAAATAAAGTGAATTTTCTACTTGAAACGTGTGT  
GCCTCTCCACTGAGGGGGCCAAGGCCCTGGAAATGTAAAGGGCCAATCTTT  
GTTACAGAGGGGTTTATTGACGTGAAGGGCGGGTTCTGCAAAGACAAACA  
GGTCTCACAGATAGTTGCCCGCGCT  
>193.1  
TTTTCTCTTCTTCTGCTAACGCCTCCCGGCTCTCGTCAGCCTCCCGCCGG  
C  
>194.1  
CGGCCGCAGCGGCAGCTACAACAACCGCGTCGCTCTCCGCTCAATTTCCA  
AGAGCCAGCTTTGAAGCCAAGTGCCCCCGCGTACCT  
>195.1  
CCGCGGTGGCGGCCGGTGTGCTGTGCTCAGCTGCCTTCCAAAGGAGGAAC  
AGATCGGCAAGTGCTCGACGCGTGGCCGAAAATGCTGCCGAAGAAAGAAA  
TAAAAACCCTGAAACATGACGAGAGTGTGTAAAGTGTTGAAATGCCTTC  
TTAAAGTTTATAAAAGTAAAATCAAATACATTTTTTTTTTCAAAAAAAAAA  
AAAAAAAAAAAAAAGT  
>196.1  
GGCGGCCGAGGTACTTTGAGCTCATAAGCTGGTATAAAATATCAAACATT  
TTGACTGTTTAAACAACCTCAAGATATGTTTTGCAAAATTACAAAACATTA  
TACAGGTGACTTAATTAATATCTACTCCAATTATACACAACACATCATGC  
TGAAGATTAGATTTATTTGAAAACACTTAGTCTAATTTATATTAGTGCA  
GAAAAATCACATTCAATAAACCACAATTGTAGAAGAGACAGATAAGTGTG  
TTTGTACATTTTACACAAATATAATTTGATATTTAATTAAGGGATGAT  
GAATCACAAATCACCATGGTCGCCGCTGAGCGCCAACCCCTACCCCGTCG  
CCTCACTCGGATCCCCCGCGT  
>197.1  
GCAGGGCGGTATGCCGCCAAACGCTTCCGCAAAGCTCAGTGTCCCATTGT  
GGAGCGCCTCACTAACTCCATGATGATGCA  
>198.1

Table 3

CTTGCTCAGCCTTTCCAGGCCCTCTGATGAGCTCTCTAATCAGCAGGAC  
CAAGGTGTGAATGTGGGAATGAACATGGATCCATCCCATTGGATGGAGAA  
GAAAGGTGGACAGCCTGTTCTCTCATGTCAGCCTAGGGCTGGGAACA  
GTTTGTGAGGACTTATCTGTTGT

&gt;199.1

GTACTTGCTCAGCCTTTCCAGGCCCTCTGATGAGCTCTCTAATCAGCAG  
GACCAAGGTGTGAAGTGGGAATGAACATGGATCCATCCCATTGGATGGAG  
AAGAAAGGTGGACAGCCTGTTCTCTCATGTCAGCCTAGGGCTGGGAA  
CAGTTTGTGAGGACTTATCTGTTGT

&gt;200.1

AAGATGGCCAGAGAGAAGCTGGAAGAAATAGATTGGGTGACATTTGGGGT  
TATATTGAAGAAGGTTACGCCACAGAGTGTGAATAGTGGAAAAACCTTCA  
GCATATGGAACTGAATGATCTTCGTGACCTGACACAATGTGTGTCCTTG  
TTCTTATTTGGAGAAGTTACAAAGCGCTCTGGAAGACGGAGCAGGGGAC  
TGTCGTAGGGATCCTCAATGCCAACCCCATGAAGCCCAAGGATGGTTCAG  
AGGAGCGTGACTGTGAGT

&gt;201.1

GTTCAAGCTCAACAAGTCAGAACTAAAGGAGCTGCTGACCCGGGAGCTGC  
CCAGCTTCTTGGGGAAAAGGACAGATGAAGCTGCTTTCCA

&gt;201.2

CTGATGAGCAACTTGGACAGCAACAGGGACAACGAAGGTGGACTTTCCAA  
GAAGTACCTGCCCCGGGCGGCCCGCTCTAGAAGTAGT

&gt;202.1

TTGGGGCACAGAGAGGGTTTCAGAGGATCCTTGTGAAACACTAGTTAAAA  
GATGACGAGTGGGGAGAAAGTGCAGGAAAGAAGGAAATTAGTCTGACTGG  
CTTTCTGTCCTGCACCATTTGATTCAATGGAGACTGGCGGGAGGAAATGGA  
AGACTAGGGTTGGAGATGGGATGGGTGGGGCAAGGGATGGAAAGGAAAAG  
GCAGACAATAATGCGTTCCATTTATAACAAGTAATATATATCAAAGACT  
TAAAGGAGATTAAAGACCAATCAGAATAATTTGGCAACTTTAATTCTTAG  
GAAGATCAAAGTTCCTCCAAACCTAATTTGATGTTTTATTACTAAAAGC  
AAAGACCAGTATGGT

&gt;203.1

TCCTTTCTCGTTCCCCGGCCATCTTAGCGGCTGCTGTTGGTTGGGGGCCG  
TCCCGCTCCTAAGGCAGGAAGATGGTGGCCGCAAAGAAGACGAAAAAGTC  
GCTGGAGTCGATCAACTCTAGGCTCCAACCTCGTTATGAAAAGTGGGAAGT  
ACCT

&gt;204.1

CGCGGTGGCGGCCGAAAACCTGATCAGACTGTCTCAGATCAAGGAAAAGAT  
GGCCAGAGAGAAGCTGGAAGAAATAGATTGGGTGACATTTGGGGTTATAT  
TGAAGAAGGTTACGCCACAGAGTGTGAATAGTGGAAAAACCTTCAGCATA  
TGGAAACTGAATGATCTTCGTGACCTGACACAATGTGTGTCCTTGTTCTT  
ATTTGGAGAAGTTCACAAAGCGCTCTGGAAGACGGAGCAGGGGACTGTGCG  
TAGGGATCCTCAATGCCAACCCCATGAAGCCCAAGGATGGTTCAGAGGAG  
GTGTGTTTATCTATCGATCATCCTCAGAAGGTCTTAATTATGGGTGAAGC  
TCTTGACCTGGGAACCTGTAAAGCCAAGAAGAAGATGGAGAGCCGTGCA  
CGCAGACTGTGAATTTGCGTGACTGTGAGT

&gt;205.1

CCGGGTGGCGGCCGAAAACCTGATCAGACTGTCTCAGATCAAGGAAAAGAT  
GGCCAGAGAGAAGCTGGAAGAAATAGATTGGGTGACATTTGGGGTTATAT  
TGAAGAAGGTTACGCCACAGAGTGTGAATAGTGGAAAAACCTTCAGCATA  
TGGAAACTGAATGATCTTCGTGACCTGACACAATGTGTGTCCTTGTTCTT  
ATTTGGAGAAGTTCACAAAGCGCTCTGGAAGACGGAGCAGGGGACTGTGCG  
TAGGGATCCTCAATGCCAACCCCATGAAGCCCAAGGATGGTTCAGAGGAG  
GTGTGTTTATCTATCGATCATCCTCAGAAGGTCTTAATTATGGGTGAAGC  
TCTTGACCTGGGAACCTGTAAAGCCAAGAAGAAGATGGAGAGCCGTGCA  
CGCAGACTGTGAATTTGCGTGACTGTGAGT

Page 28 of 111

Table 3

&gt;212.1

TGGATGACATTGGCGGTGGTCTTGATACCAGATAAGCCCTCAGTGTGAA  
GCAGCTCTTATTTTTCTTGTCTTGAGATTGCTCTGGAATGGAAATTAGG  
CTTTTTGAAGGTGTGACCTTTTTGTTCACTTCTTCAGCAGTTACTTTT  
TAATTTTTAAATGTTTGACACACAGTCTCTGATAAATGATCATTACCAA  
TCACCGATTACTCTCCTTGCTCTGTTAAGTGTGACACTGTCCCTTTGAGA  
ATCTGGCGACAGCTATGTATCCCATACACACACCCCAAAAAAAAAA

&gt;213.1

GGCGGCCGTTTGAGAAGCCAGCGCTCACCCACCCGGGGTCTCTGTGCATT  
GACCTTTGGGTGCTGACTTGGAGAAAAGCACAAACACGACCAGTCCCCC  
GCGTACCTCGG

&gt;214.1

TTTTAACACAATATACCTAACATATTTTTATTTCAATATCTAACAGTAT  
AAAAATTTACTTGTTTTGCCCTCTAGAGATAGTAAGCTCCTTAAGTAAAC  
AGAAGTAATACCTGATTAATTAGAATTCCAACCCTCATCAAGTGTGTGC  
TTATATAGAAGAAACCCAGTAAATGTTTGTTGATTGAAAGATATTAATAC  
TCTTGCTTGATGAGAGTGAGGAAAAAGGTATTAGTATTGGCTTTTAC

&gt;215.1

GCGGCCGAGGTACTTTGGAGTCCCCTGGTTTCTAAGAATTGCCGTTGACT  
CTTTCTTTGGCTTCTGCTGGCACGGTAACCAGACTCCCTACAACCTGCACT  
CTTTGTCTTTGTCTGGAAGCCGCGAGCGTAGAGGTTCCGCGTGCTCTGC  
CGGACTTGAGCAGGTCACTGGGTCTTTACACTTGTGAATTCGAAGCTTG  
CCAGATGTATCCTCAATGCATTGCCACTTCTGCCCCGGTTGTTACAGGC  
TGCTGGTACGAGATCTCCGACCAGTCTGGGGGCGCTGGCGGCCTGCGCA  
GCCACCTCAAGATCACAGATTCTGCTGGCCATATTCTCTACTCCAAAGAG  
GATGCAACCAAGGGGAAATTTGCCTTTACCACTGAAGATTATGACATGTT  
TGAAGTGTGTTTTGAGAGCAAGGGAACAGGGCGGATACCTGACCAACTCG  
TGATCCTAGACATGAAGCATGGAGTGGAGGCGAAAAATTACGAAGAGATT  
GCAAAAGTTGAGAAGCTCAAACCATTAGAGGTAGAGCTGCGACGCCTAGA  
AGACCTTTCAGAATCTATTGTTAATGATCTTGCCTACATGAAGAAGAGAG  
AAGAGGAGAT

&gt;216.1

CCACCGGGTGGCGGCCGAGGTACTTTGGAGTCCCCTGGTTTCTAAGAATT  
GCCGTTGACTCTTTCTTTGGCTTCTGCTGGCACGGTAACCAGACTCCCTA  
CAACTGCACTCTTTGTCTTTGTCTGGAAGCCGCGAGCGTAGAGGTTCCG  
CGTGCTCTGCCGACTGTGAGCAGGTCACTGGGTCTTTACACTTGTGAA  
TTCGAAGCTTGCCAGATGTATCCTCAATGCATTGCCACTTCTGCCCCGGT  
TGTTACAGGCTGTCTGGTACGAGATCTCCGACCAGTCTGGGGGCGCTGG  
CGGCCTGCGCAGCCACCTCAAGATCACAGATTCTGCTGGCCATATTCTCT  
ACTCCAAAGAGGATGCAACCAAGGGGAAATTTGCCTTTACCACTGAAGAT  
TATGACATGTTTGAAGTGTGTTTTGAGAGCAAGGGAACAGGGCGGATACC  
TGACCACTCGTGATCCTAGACATGAACATGGAGTGGAGGCGAAAAATTAC  
GA

&gt;217.1

GCGGCCGAGGTACTATCAAACAACATGATACAATTTAAATGTGTCATAGC  
AACTACTAGTGGTCACCTGAAATCCATTTTCCCCTCCTTCACAGTAAGAG  
TTTTAGCTGAATGAGTGGCCACTCATAGAGAGATTGCATTTCTGGCTTCC  
CTTGACGCCATAGGTAGCCATGGGACAAAGTTCTAACCCAGGGGGGGTCC  
AATCTTTTGGCTTCCCTGGGACACACTGGAAGAAGAAGAATTGTCTTGGG  
CCACACATAAAATACACTGGCATCAAGGATAGCTGATGAGCAAAAAAAAA  
AAAAAAAAAAAAAGT

&gt;218.1

CGCGGTGGCGGCCGAGGTACCATCCTGTTCCACAGAGCCATTGCCTATTC  
CTAAATTGAATCCGACTGGGCGTGCCCTCCTCGGAACACAACAGTAGAC  
CTTAATAGTGGAAACATCGATGTGCCTCCCAACATGACAAGCTGGGCCAG  
CTTTCATAATGGTGTGGCTGCTGGCCTGAAGATAGCTCCTGCCTCCAGA

Table 3

TCGACTCAGCTTGGATTGTTTACAATAAGCCCAAGCATGCTGAGTTGGCC  
AATGAGTATGCTGGCTTTCTCATGGCTCTGGGTTTGAATGGGCACCTTAC  
CAAGCTGGCGACTCTCAATATCCATGACTACTTGACCAAGGGCCATGAAA  
TGACAAGCATTGACTGCTACTTGGTGTCTGCTGCAAACTAGGCACC  
ATGGATATGTCTATTACTCGGCTTCTTAGCATTACATTCTCTGCTCTCTT  
ACCCCAACGTCCACAGAGCTGGATGTTCTCACAATGTCCAAGTGGCTG  
CAGTGGTTGGCATTGGCCTTGTCATATCAAGGGACAGCTCACAGACATACT  
>219.1  
AACGCGCGACTCCACCGCCATCTTCTCTACGGCCTGCGAGACGCTCCC  
CCGCGTACCTCGGCGCTCTAGAATAAGTGGGATCCCCCGGGCT  
>220.1  
GCGGTGGCGGCCGAGGTACCATGATATCATGTATCCTGCTTGGACATTTT  
GGGAAGGGGGACCTGCTGTTTGGCCAATTTATCCTACAGGTCTTGGACGG  
TGGGACCTCTTCAGAGAAGATCTGGTAAGGTCAGCAGCACAGTGGCCATG  
GAAAAAGAAAACTCTACAGCATATTTCCGAGGATCAAGGACAAGTCCAG  
AACGAGATCCTCTCATTCTTCTGTCTCGGAAAAACCCAACTTGTGAT  
GCAGAATACACCAAAACAGGCCTGGAATCTATGAAAGATACCTTAGG  
AAAGCCAGCTGCTAAGGATGTCCATCTTGTGGATCACTGCAAATACAAGT  
ATCTGTTTAAATTTTCGAGGCGTAGCTGCAAGTTTCCGGTTTAAACACCTC  
TTCTGTGTGGCTCACTTGTTTTCCATGTTGGTGATGAGTGGCTAGAATT  
CTTCTATCCACAGCTGAAGCCATGGGTTCACTATATCCCAATCAAAACAG  
ATCTCTCCAATGTCCAAGAGCTGTTACAATTTGTAAAAGCAAATGATGAT  
GT  
>221.1  
CCGGGCAGGTACAGCAACAAGAATCAGATGCTCTTTAGAGATCCTCCATT  
TCATTACTCTAACATTCTTCAATGTGGTTCAGCCACGCATAGTCATATA  
GATACTACATATTCAAAGATACTTACTGAAGCTTGTTACAGAACCAAG  
CTTTCTCCTGATAGCTCTTCTTCCCTACCCCGCACTTTTGGAAGTATTA  
CCCCAAATGCTCTTCAGGATTTAAATAACAATTTTAAAAAGACACTTAA  
CACCACAAAATGGAATTTGCTGGCATGACGCGAACAATACGGTTACTCCA  
GATGCTGTATTCAAATGTATGGGTCCGTTGAAAAATAGATATAACCAT  
TTTTCTCATAGACAGCATCTACTTTATCACCATTCTGGGAAGTCTTCT  
TCTATTAGTCTCGGATAGTCTTTATCCATAATATGGCTAGTATCATCATA  
TCTCCAGACCTGGTTTCTGAGAACAGGAGAGTCTTGCTGTATCCTCAA  
AGTGAACAGCTGCACTTATCTTCTTAATCTTTTGGAAAGACCCAGTTCA  
GATATTTTTTTGGGATAACCTTCAAAATGTCATAACCAT  
>222.1  
ACGCGGGGAGTGTAATATGGCCGGCCTGCGGAACGAAAGTGAACAGGAG  
CCGCTCTTAGGCGACACACCTGGAAGCAGAGAATGGGACATTTTAGAGAC  
TGAAGAGCATTATAAGAGCCGATGGAGATCTATTAGGATTTTATATCTTA  
CTATGTTTCTCAGCAGTGATAGGGTTTTCTGTAGTGATGATGTCCATATGG  
CCATATCTCCAAAAGATTGATCCGACAGCTGATACAAGTTTTTGGGCTG  
GGTTATTGCTTCATATAGTCTTGGCCAAATGGTAGCTTCACCTATATTTG  
GTTTATGGTCTAATTATAGACCAAGAAAAGAGCCTCTTATTGTCTCCATC  
TTGATTTCCGTGGCAGCCAATGCCTCTATGCATATCTTCACATCCCAGC  
TTCTCATAATAAATACTACATGCTGGTTGCTCGTGGATTGTTGGGAATTG  
GAGCAGTTTTTC  
>223.1  
GCGGCCGGAGTGATGCCATCTGCAGTTTTGTGATCTGCAATGATTCTTCC  
CTTCGAGGTCTAGCCCATTTATCTTTAATCCTGACTTTTTTGTGGAGAACT  
CCGACATGAGAAACCTGAGATTTTCACTGAGTTGGTGGTCAGCAATATCA  
CAAGGCTCATCGATTTACCTGGAAGTGAAGTGGCTCAGCTGATGGGGGAA  
GTGACCTTAAGTTGCCTGGCGGGCTGGCCCAGCATCAGGATTTCTCCG  
GTCTCTCATGTCTCTCAAGCGAAAGGAAAAAGGAGTGATATTTGGGTCCC  
CACTGACGGAGGAAGGCATTGCCAGATATACCAACTGATTGAGTATCTA  
CACAAAACTTGCGAGTAGAGGGTTTGTTTAGAGT

Table 3

&gt;224.1

GGCCGCCCCGGGCAGGTA CTCCCTGTAAAGGGGAATTTCCATGCCGTCTAC  
AGGGATGACCTGAAGAAATTGCTAGAGACCGAGTGTCTCAGTATATCAG  
GAAAAAGGGTGCAGACGTCTGGTTCAAAGAGTTGGATATCAACACTGATG  
GTGCAGTTAACTTCCAGGAGTTCCTCATTCTGGTGATAAAGATGGGCGTG  
GCAGCCCACAAAAAAGCCATGAAGAAAGCCACAAAGAGTAGCTGAGTTA  
CTGGGCCCCAGAGGCTGGGCCCTGGACATGTACAGACTCTCATTTTATGA  
TGTATCCTACTGCATCAGGACATTTGTGTCAATGTCAGGTGACGAGGGGA  
AATGAAAGTGATGAGACGATGAGAGGAGTGAAATACCAAGGACGCCATAC  
TAGGAAACCCAGGTCTATTTGTTATCAGAGTAAGGATCAAGCCAGATAGC  
CTGTTATGTAATTTCTCCGATAAAAGATTTTGAAGCAGGTGCTGTGGGC  
ATCTGTATGGGGAATCGCACTCATAGAATTATTTTCATTTGTAAATATTT  
GGTATCAGGCCAAGCAAGGGAAGAAGCTTTACTGTATTACCATCTTT

&gt;225.1

CGCTCCCCGCGGTGGCGGCCGAGGTA CTACAGTCACGCAAATTCACAGT  
CTGCGTGACCGGCTCTCCATTCTTCTTCTTGGCTTACAGGTTCCAGGT  
CAAGAGCTTCACCCATAATTAAGACCTTCTGAGGATGATCGATAGATAAA  
CACACCTCCTCTGAACCATCCTTGGGCTTCATGGGGTTGGCATTGAGGAT  
CCCTACGACAGTCCCCTGCTCCGTCTTCCAGAGCGCTTTGTGAACCTTCTC  
CAAATAAGAACAAGGACACACATTGTGTCAAGTCACGAAGATCATTCACT  
TTCCATATGCTGAAGGTTTTTCCACTATTCACACTCTGTGGCGTAACCTT  
CTTCAATATAACCCCAAATGTCAACCAATCTATTTCTTCCAGCTTCTCTC  
TGGCCATCTTTTCTTGATCTGAGACAGTCTGATCAGTTT

&gt;226.1

ACGCGGGATGGATAGCCGCTTGCAGGAGATCCGGGAGCGGCAGAAAGTTAC  
GGCGACAGCTCCTCGCGCAGCAGTTGGGAGCTGAAAGTGCCGACAGCATT  
GGTGCCGTGTTAAATAGCAAAGATGAGCAGAGAGAAATTGCTGAAACAAG  
AGAAACTTGCAGGGCTTCTATGATACCTCTGCTCCAAATGCAAAACGTA  
AGTATCTGGATGAAGGAGAGACAGATGAGGACAAAATGGAAGAATATAAG  
GATGAACTAGAAATGCAACAGGATGAAGCTTATCATCAATTCATTGTATA  
AAAATAAAGAGATTTTCTGAGAGAACTGATTTCAAATGCTTCTGATGCT  
TTAGATAAGATAAGGCTAATATCACTGACTGATGAAATG

&gt;227.1

ACGCAAAGTGATTAGAGAAACGCTGGGGCTCACAGGCGCTGTAGCAAACG  
TGCAACTCTTGAGGAACACTTAAGACGCCACCATTGAGAACACAAAAAGC  
TACAGAAGGTCCAGGCTACTGAAAAGCATCAAGACCAAGCTGTTACTAGC  
TCTGCGCATCACAGAGGGGGGCGATGGTGTTCACATGGGAAATTTGTTAA  
ACAGAAATCAGAGGAGCCATCGGTGTCAATACCCTTCTACAACTGCAT  
TATTAAGAAGTTTCAAGGAGTCTTGGGCACAGACCAAGCCAGGAGATGGAT  
AAAATGTTAAAAAATCAAGCAACTTCTGCTACTTCTGAAAAGGATAATGA  
TGATGACCAAAGTGACAAGGGT

&gt;228.1

AGACTTGGCTGTTGGGAGGGGCGTGTCTTACACCTTAGGAAGAATCCTTA  
GCTGTACTTTTCTGTCTCTCCTGGAGCTCCCTCCTACCCCTAGCTGAGT  
AGGCCAGGTTTTGGTGCAAAATCTCCACATTGGCAAAGTTCTGTCATAT  
GCTGCGCAGTATGTGCCCTTGAATAAAAAATCCTGAAGATTAGATGGTTCAG  
GCTGCATCATCCCAAAGCAAAGAGCACCTCTTTGAAGCTCACCTGCCCGG  
GCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTCAGTATGTAGCTTTAA  
AACAGTTACATATAACATGGAACAGTATGACATGAAAAGAGAGAGGTTTA  
TAGAGGGAG

&gt;229.1

GGCGGCCGAGGTA CTACAGGATGATGGCTTTCTCTTCTCTGGGTACAG  
GCAGGGCCATGGAGTTGGGGAGAGAATGTCTAAACCTCTGGGGGTATGAA  
CGGGTAGATGAAATTATTTGGGTGAAGACAAATCAACTGCAACGCATCAT  
TCGGACAGGCCGTACCTGCCCGGGCGGTGAGCGGCCGCCCGGGCAGGTA  
CTT

Table 3

&gt;229.2

TGTTACATTGGTCAGTTTTTACTTGTAAAAAGTATTATAGAAGAGTTTTA  
TTGGAATGTTATTTTATTAAGCCATTTTCATGGGTATTTTTTTTTAAAG  
TTTAAGAAGTTTTTACAACAGGCTGGGGGGGGGGGGTTACACC

&gt;230.1

GGCGGCCCGCCGGGCAGGTACGCGGGGGAGTCAGACCCAGTCAGGACACAG  
CATGG

&gt;231.1

TCCCCGCGGTGGCGGCCGAGGTACGACGTTTCCATCAGCTTGTCTGTTTC  
ATTCCCTGATGTTACGAGCAATATGACCATCTTCTGTATTCTGGAACTG  
ACAAGACGCGGCTTTTATCTTCACCTTCTCTATAGAGCTTGAGGACCCT  
CAGCCTCCCCCAGACCACATTCTTGGATTACAGCTGT

&gt;232.1

AAAAAGATATTTTAATATATTTCAGATCCACAAATATGAAATAAACTAAG  
TAGAGCTGGTATTCATTTACACATAATTATCTTATACCGTTTGGAATAAG  
AATTTGGGGCACGTTAGCAAACCAAAGGCTCAAAAAGACGTCGAGATAT  
TAGTTCTTGTCTCCCTCTACAAATGTGAAGCACTCTTTTATCCGGCATT  
CCTAGGGGAGTTCTATTTTCAAATTTGCAAATCATTTCTGGTGCTAAGC  
AATCTCAAAAAAACATTTACTAAAAACCAGAGGAAAAAATCTTATAAC  
TTTGGGAG

&gt;233.1

GCGGCCGCCCCGGGCAGGACGCGGGGGCCAGTTCTCTTCGGGGAGTAACTG  
CAACGGAGAGACTCAAGATGATTCCCTTTTTACCCATGTTTTCTCTACTA  
TTGCTGCTTATTGTAAACCCTATAAACGCCAACAATCATTATGACAAGAT  
CTTGGCTCATAGTCGTATCAGGGGTCGGGACCAAGGCCCAAATGTCTGTG  
CCCTTCAACAGATTTTGGGCACCAAAAAGAAATACTTCAGCACTTGTAAG  
AACTGGTATAAAAAGTCCATCTGTGGACAGAAAACGACTGTGTTATATGA  
ATGTTGCCCTGGTTATATGAGAATGGAAGGAATGAAAGGCTGCCAGCAG  
TTTTGCCCATTTGACCATGTTTATGGCACTCTGGGCATCGGGGGAGCCACC  
ACAACGCAACGCTATTCTGACGCCTCAAACTGAGGGAGGAGATCGAGGG  
AAAGG

&gt;234.1

GGAGGCGGCCGCCCCGGGCAGGTACAGTATAGGTTGGTTTTGCCTGTTTTG  
ACGC

&gt;234.2

CACACATTTTACATATATATATGAACTGTATAATGTGTTTCGCTTCAGTG  
TCTGGCTGCTTTTACTCAACATTGTGAAATTAATTCCTGTTATCGTATAT  
GGGATTAATAATTTGTTTGCCTAGTTTTTGCCTTCTCATTGCTTCTGAATT  
GGGGCAGCTTTGCCCTCAAGGGAAATTTAGCAATGTCTGGAGACATTTT  
TTATTTTCATAATTTGGAGGGACATGGGGGAGGTGTGCTACAGAACTTAG  
TAGGTAGAGGACAGGGTTAGTGCTGAACGTTCCACAGT

&gt;235.1

CCTCCCAATTATCCCCAATTGAGAGATGAAAATTCTGACAAGCTCTCAA  
CGTTAACTGACTTGCCCATAAATGACAGTTCCAAAGTTATAAGGCTAGAA  
CTTGAATCCAGGTCTGTTAGAAATCTAGGTTTGAGAATCCATATTCTTTC  
CACTTCCCGCGT

&gt;236.1

CGGCCGCCCCGGGCAGGTACCTACGCCACAGACAGCCAGAGGGAAAGCGAC  
CCAGACAGCAGCCCCCTCCTCGACAGGCCACCCTGCAGCTCAGGCACCAA  
GAAAACAGCCGATACTGGCAGCCATTGCAGCTCCAACTGCAGAGGCAAG  
GCCAATTTTAACTTTTCAATTTACAGTCGATTTTGAAGAGCTTCTACATA  
TCGGTTATGTAAATTCATATATGTATTTTGAATCAGTTCTTATAAACA  
GCTCGATTGAGTTTGTAGCTAAATTTATAGTCTAGGTAGTATGTTACATT  
GAACTTTTGTCTTAAGAAAAGTTGACTGTTTCAGATATTTTCTACTGTAA  
AGAAATATACTTTTCTATTAAAGATCTGT

&gt;237.1

Table 3

GCAGTTTTGTGATCTGCAATGATTCTTCCCTTCGAGGTCAGCCCATTATC  
TTTAATCCTGACTTTTTTTGTGGAGAACTCCGACATGAGAAACCTGAGAT  
TTTCACTGAGTTGGTGCTCAGCAATATCACAAGGCTCATCGATTTACCTG  
GAACTGAGTTGGCTCAGCTGATGGGGGAAAGTGACCTTAAGTTGCCTGGC  
GGGGCTGGCCAGCATCAGGATTCTTCCGGTCTCTCATGTCTCTCAAGCG  
AAAGGAAAAAGGAGTGATATTTGGGTCCCCACTGACGGAGGAAGGCATTG  
CCCAGATATACCAACTGATTGAGTATCTACACAAAACTTGCGAGTAGAG  
GTTTTGTTTAGAGT  
>238.1  
CACCGCGGTGGCGGCCGAGGTACGCGGGGATTGTGTGCAAAATCAGAGAG  
GGGTGCAAGATCCTGATTTTTTCAAGGAGTTCAAGCGACAATGGCAGCCCAA  
TACGGGAGTATGAGCTTCAACCCCAGCACACCAGGGGCCAGTTATGGGCC  
TGGAAAGCAAGAGCCAGAAATTTCCCAATTGAGAATTGTGTTAGTGGGT  
AAACCGGAGCAGGAAAAAGTGCAACAGGAAACAGCATCCTTGGCCGGAAA  
GTGTTTCATTCTGGCACTGCAGCAAAATCCATTACCAAGAAGTGTGAGAA  
ACGCAGCAGCTCATGGAAGGAAACAGAACTTGTCTGATGTTGACACACCAG  
GCATTTTCGACACAGAGGTGCCCAATGCTGAAACGTCCAAGGAGA  
>239.1  
CGCGGTGGCGGCCGAGGTACCAGTTAAGTGAACAGCTCGTCTAGGTCTGC  
TTTTGTAACACCCAAATACAATTAGCACTTCTCTGCTGGTATTCCCTGGG  
CCGTCTTAATTTATCTAGAGGCCAGGAGGCAAAGCCTAGCACGTAACAAAG  
TATGTGCTTTGTAAGTCTGATTAATTCAGTTTCTTAAGTGGCAGAGCA  
GGTCATCAGTGTATCTAATTCACACTATTAATACACTGTCTTGCTGAAGA  
GTCTGACCTGCCAGAACCCCGTTATGGCTAGCCCAGGGAAGCAGTAAAC  
TGCAAAGCAGAGAAAAGGGGCAGCTAAGATGAGGCTAGTGCTGGCTGAGT  
CCCAGTTAGGTCTGTTACTGTTCTGTTCCAATAATAATCCAGGATGACT  
GTTACTCAGATTCAGTGCTATGTAGAAAATAGAATGCACAGCCAAAAACA  
TAATTTGGGATGACTGGCAGCACCTTTTTTTCCCTTTCTT  
>240.1  
GGGGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTGGTATGACTATGAAG  
GCTAGTGGTCTTTTTTATTAGCTATCAAGTTTCATTTAACAGACAAAAAATT  
CAGTTCAATGGGGGCATTAATAAGGAAGAATTAACAATAGTTCAATTAAT  
CAATCTTTGAGCTGTTCCCTATTTTATCACAATAACTTTTCTATAATTGA  
GAGATCCATGAGGAAGTCTTGAAAAGAACGTATGTTTCTTTCAATTCCAT  
AAAACATTGAGCCAAAATAATAAAGAGGCGCTATTACTTTGTTTGGGT  
GAATGATATGACGGCTAGGCTTTGCTGTAGT  
>241.1  
GGCGGCCGCTGTGCTGTGCTCAGCTGCCTTCCAAGGAGGAACAGATCGGC  
AAGTGCTCGACGCGTGGCCGAAAAATGCTGCCGAAGAAAGAAATAAAACC  
CTGAAACATGACGAGAGTGTGTAAGTGTGGAATGCCTTCTTAAAGTT  
TATAAAGTAAATCAAATTACATTTTTTTTCCAAAAA  
GT  
>242.1  
ACTGTCTCAGATCAAGGAAAAAGATGGCCAGAGAGAAGCTGGAAGAAATAG  
ATTGGGTGACATTTGGGGTTATATTGAAGAAGGTTACGCCACAGAGTGTG  
AATAGTGGAAAAACCTTCAGCATATGGAACTGAATGATCTTCGTGACCT  
GACACAATGTGTGCTTGTCTTATTTGGAGAAGTTCACAAAGCGCTCT  
GGAAGACGGAGCAGGGGACTGTCGTAGGGATCCTCAATGCCAACCCCATG  
AAGCCCAAGGATGGTTCAGAGGAGCGTGAAGTGTGAGT  
>243.1  
CCTTGGGCAGATGCTGTATTATGGGGATAAGCCACACACTTTTTGAACTG  
GCCCGGTGAGGGGGGACATAACCATTTCTGTGCCACCCCATCAATCCCC  
ACCTATTCTGAGTGTAGGCTCCTCCCCTGCTTGAGTAATGGCCACAGATC  
TTGGCTCGGCACTCCTAAGCTGCATGTTGAATTCCTGGGACAACAAGACT  
GGCTTGTGGTTCCATTCTCCAGATCCTTGGGTTGGCTTCTGGGTGCACTA  
GGAGATCTGAAATGCTCTCAGGCCACCAGGAAAGTACTGGAAGTAAAGTC



Table 3

TGACTCTAAAGAAGATGAAAATCTAGTAATTAATGAAGTAATAAATTCTC  
CCAAAGGGAAAAAACGCAAGGTAGAACATCAGACAGCTTGTGCTTGTAGT  
TCTCAATGCACGCAAGGATCTG  
>244.1  
GTACCACCACAGTTGCTATCTCTTGAACATCTTTTCATTAACATCACCG  
TCTAGTTTGAGAATACTTTTAAGCCTGCTGGCCTCCTTTGGGGCATTCTT  
TTTTCTCTTTTTCAGCACGCATCTTTCTTTTCCACTTACTCCGTAAGCTTT  
TAGCCATGTTTTACCTTGAGGGCCGAAGTTAACTTCAGCGGGAGTGAACG  
ACAGGGGTGGGCTCCACTTTATCCAGTGCCTCGGAAGCCGGAGGGCCCC  
CACCAAAAAGAGCAAGGGGAACCTCGCCCTCAACAAGGCCTGCATCTCC  
GGACTGGAGCTCAAGTATAG  
>245.1  
ACAATTGCTTGAGTGAGTTCATGGTCCGTAGGAGGATGACCACTAGCCCA  
CCACCTTCCACTGTTTCTACAGTCTTGGCCAGCAAGTTTGGAGTTAAGGC  
TTCAAAATCCTGCAGCACACACATGCCGAAGGTATTGCCAGGATCTTGT  
GGGTCTCGTTGTAGTAGCAGTAGCGAATGTTTGTGGCTGCTATGAAGAGT  
TCAAAGGGGTGCTCCTGCTTTATGTTCAGTGTTCCATTCTTTATTTCTT  
CTGCAGCTGTGCGATTCTTTCTTTCTG  
>246.1  
CGGGTGGCGGTGCTGCGGATCAGCGTAGGTGAGCTGTGGCCTTTTTCGAG  
GTGCTGCAGCCATAGCTACGTGCGTTCGCTACGAGGATTGAGCGTCTCCA  
CCCATCTTCTGCGCGGGACCATCTACATAATGAATCCCAGTATGAAGCAG  
CAACAAGAAGAAATCAAAGAGAATATAAAGAATAGTTCTGTCCCAAGAAG  
AACTCTGAAGATGATTACGCTTCTGCATCTGGATCTTGTGTTGGAAGAG  
AAAATGAGCTGTCCGCAGGCTTGTCCAAAAGGAAACATCGGAATGACCAC  
TTAACATCTACAACCTCCAGCCCTGGGGTTATTGTCCAAAAA  
AAAAAAGT  
>247.1  
CTTGCTTGACTAGATGAGCTGCTATAGTAGCCAATCCTGTTAGACTTGGA  
CCATTGTTGTCTGAAGAACGGGGATCTGTGCTCGCCCTGAGCACTGTA  
TTTATCCCTTACTCAGTCCAGGACTTCTCCAGTAGCGACAACCTCTG  
CGGCCGCCGCCATCTTC  
>248.1  
AGAGACGAGGAATTTAATTAGGGTTGTAACAAATGGTTAATTATAGTAAG  
AAAAACCAAAATTGAATAATTTCTAACTCACTTGGCAGGGGGGTCTCGC  
AGCCATAATGAACATCACATAATGAAGTTACTCCTTTCCAGATCTATAAA  
CAGGCTCATGTAACATACTGATACTCAGTAAAAGGGTCCATAATCCAAAT  
TTATATAACAAATGGGGCTTGCTATAAAATCTTTACATTTTAATACTTA  
CTCTTAATAAATCATCTATTCTTCCCTCCTTCTCTCTAAGGCAGAATTC  
TACTGTTTTCTAGGGCAGATATTTTTCTATTGTGAGGTGCGACTGGGT  
CTGTCTGGGCTGGATGGAGATCTGTTTTTGGGAGCTGCAGGAATGCTCTG  
TGTTGCCAGATCCCGTAAATGAGGGACTGT  
>249.1  
ACTGTCTCAGATCAAGGAAAAGATGGCCAGAGAGAAGCTGGAAGAAATAG  
ATTGGGTGACATTTGGGGTTATATTGAAGAAGGTTACGCCACGGAGTGTG  
AATAGTGGAACCTTCAGCATATGGAACTGAATGATCTTCGTGACCT  
GACACAATGTGTGTCCTTGTCTTATTTGGAGAAGTTCACAAAGCGCTCT  
GGAAGACGGAGCAGGGGACTGTCGTAGGGATCCTCAATGCCAACCCCATG  
AAGCCCAAGGATGGTTCAGAGGAGGTGTGTTTATCTATCGATCATCCTCA  
GAAGGTCTTAATTATGGGTGAAGCTCTTGACCTGGGAACCTGTAAAGCCA  
AGAAGAAGATGGAGAGCCGTGCACGCAGACTGTGAATTTGCGTGACTGT  
GAGT  
>250.1  
GGCGGCCGGAGTGATGCCATCTGCAGTTTTGTGATCTGCAATGATTCTTC  
CCTTCGAGGTGAGCCATTATCTTTAATCCGACTTTTTTGTGGAGAAAC  
TCCGACATGAGAAACCTGAGATTTTCACTGAGTTGGTGGTCAGCAATATC

Table 3

ACAAGGCTCATCGATTTACCTGGAACTGAGTTGGCTCAGCTGATGGGGGA  
AGTGGACCTTAAGTTGCCTGGCGGGGCTGGCCAGCATCAGGATTCTTCC  
GGTCTCTCATGTCTCTCAAGCGAAAGGAAAAAGGAGTGATTTGGGTCC  
CCACTGACGGAGGAAGGCATTGCCAGATATACCAACTGATTGAGTATCT  
ACACAAAAACTTGCGAGTAGAGGGTTTGTTTAGAGT  
>251.1  
TGGCGGCCGAGGTACCAGCACAAACCGGGCCAGCCTCCTAAACTGCTCAT  
TTACTGGCGTCTACCCGGGAATCCGGGGTCCCTGACCGATTCAGTGGCA  
GCAGGG  
>252.1  
GGCCGAGGTACATTTTACTACGCACCCTTACGCATTCTTTTTCTCACCTC  
TGTGTGTGTGTGCGTGCACATGCACACACAAATGGGTGAAACAATT  
CTCACCATACCAAGAGCCACCGCGCCCTGCCGAGAATTTGCATTTCTAAC  
AAGTTCCCAGGTGATGCTGACACTGCTGGCTCATGGAACCACTGCTGTAG  
TATTTTCCAAATTATCCTGATTCTAAGAACCACCTATGACCTGTGCTGTT  
TTTTCTGTGGTFACTGGCTCATGTACATAAATTCTTTTAGGATTCAAAC  
ATGTTTGTGATTAATCTAGTATTTACATCTTGCTTTTACTGCAGCATGA  
TGGAAAAATTAACCACAGGTATATCATAACAAAAAGAACATGAGTTACCA  
TTTTCAAAAGTTCAGATATATTTAAATTAGCCTATTTAATCT  
>253.1  
GCGGCCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTCTACCGGTAGC  
CTATTTCAGATTTATTAACCAACACATAGGTAACGAGTCAGAGCTTTGGC  
TAGGAATGAGTTGGAAAAAGAACTGAAGGCATAATTCCACAGGACATTCAC  
AGTTGTGTGCTAGAGACAGAGAGGAGCAGGAAAGTGTTTAGAAGCATT  
GCGGCCGACAATGGAAGGCCCGGCTTCATCGAATTCCTGTTTGCTGATCC  
ACATCTGCTGGAAGGTGGACAGAGAGGCCAGGATGGAGCCACCGATCCAG  
ACAGAGTATTTGCGCTCCGGAGGGGCAATGATCTTGATCTTCATGGTGCT  
GGGTGCTAGGGCCGGGATCTCCTTCTGCATTGCGGCGGCAATGCCAGGT  
>254.1  
AGCTCACCGCGGTGGCGGACGAGGTACTCATGGTTGCTGTAAATCTGGCC  
GCCGTTCTGCAGGGTTATGCTTAGCCAGGCTCCTATGAGATCTGGCTATT  
CTGTCTTGTTGGATGGTCAGTCCCCGCGTACCTGCCCGGG  
>255.1  
AGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGATTGTGTGCAAAATCAG  
AGGGGGGTGCAAGATCCTGATTTTTTCAAGGAGTTCAAGCGACAATGGCAGC  
CCAATACGGCAGTATGAGCTTCAACCCAGCACACCAGGGGGCCAGTTATG  
GGCCTGGAAGGCAAGAGCCCAGAAATCCCAATTGAGAATTGTGTTAGTG  
GGTAAACCGGAGCAGGAAAAAGTGCAACAGGAAACAGCATCCTTGGCCG  
GAAAGTGTTTCATTCTGGCACTGCAGCAAAATCCATTACCAAGAAGTGTG  
AGAAACGCAGCAGCTCATGGAAGGAAACAGAACTTGTCGTAGTTGACACA  
CCAGGCATTTTCGACACAAGAGGTGCCCAATGCTGAAACGTCCAAGGAGA  
TTATTGCG  
>256.1  
GAGAGAAATCAACTATTCAGGACCGGCCCCACCTTTCTCAGGAGTCAT  
TTCTGTTCCGCACAGGCCTGCTGAACTGGGTGCTTTATATAG  
>257.1  
CGCGGTGGCGGCCGAGGTACTCTGACTTGACGGGCCACAAGACCGGCCTT  
GCGAGCGTCGTTGGCTGATGGGAGTAGAAGCCACAGAGAGTCTTCCTCTT  
GGAGGTACAGTCAATTCTGAGGTTTGGGCGTCATAGACTAAACCCAGAAA  
ACAGAACATTGGGAAGTCTTCGGAATATTCTCTATCTTCTTCACCAACGA  
GTAAGACGTTTTGGAATAATGGGAC  
>258.1  
ACGTGACCGACGCCAACATTGCGGCGCCCAGTTGCGTCCACCTGCTTGTC  
CGCAGAGGTTCTCATAGAATTTTCTCTTCACCACTCAATCATATCTACTT  
ACACAAGCAGTCAAGCAGTCAACAAAGAAGAAATTTCTTTTTTCGGAGAC  
AAAGAGATATTTACACAGTATAGTTTTGCCGGCTGCAGTTTCTTCAGCT

Table 3

CATCCGGTTCCTAAGCACATAAAGAAGCCAGACTATGTGACGACAGGCAT  
TGTACCTGCCCCGGCGGCCGGCTCTAGAACTAGTGGATCCC  
>259.1  
GGTGGCGGCCGGCGGGAGGCTGACGAGAGCCCCGGGAGGCGTTAGCGAAGG  
AAGAGAAAAACCGAAGACGAAGCCACTACAGCCCCGCGTACCT  
>260.1  
TGTAAGCCTGGGTGTGCCCTAATGAGGTGAGCCTAACTTCACATTTAAT  
TGCGTTGCGCTCACTTG  
>260.2  
GGGCGGCTTCTTCCGCCTTTTCTTCGGCTTCAACTGAACTCCGCTTG  
CGCTTCGGGGT  
>261.1  
AGTCATAAAGTGTAAGGCCCTGGGGTGCCTTAATGTAGTGAGCTAACCT  
CACATTAATTGCGTTG  
>262.1  
ATTTATTTATTATGTTGTAGCCGGGGCGGCCGAGGTACCCGATAGAACAT  
GGCATCATCACTGAGGACGACATGGAAAAGATCTGGCACCCTCTTT  
CTACAATGAGCTTCGTGTTGCCCTGAAGAGCATCCCACCCTGCTCACGG  
AGGCACCCCTGAACCCCAAGGCCAACCGGGAGAAAAATGACTCAAATTATG  
TTTGAGACTTTCAATGTCCAGCCATGTATGTGGCTATCCAGGCGGTGCT  
GTCTCTCTATGCCTCTGGACGCACAACCTGGCATCGTGCTGGACTCTGGAG  
ATGGTGTCAACCAATGTCCCATCTATTAGGGCTATGCCTTGCCCAT  
GCCATCATGCGTCTGGATCTGGCTGGCCGAGATCTCACTGACTACCTCAT  
GAAGATCCTGACTGAGCGTGGCTATTCCTTCGTTACTACTGCTGAGCGTG  
AGATTGGTCGGGACATCAAGGAAAAACTGTGTTATGTAACCTCTGGACTTT  
GAAAAAGAGATG  
>263.1  
ACTTTTTTTTTTTTTTTTTTTTGCAGCCGTTTTTCTTACTAGAAGCTA  
GGCGGAAAGAGGTGTTACTCAGATTTCTTGAACCTTGAGACGTCAAAGGTG  
AGACGCCAGCCAAGGAGAAGGGATGGTCAGGG  
>264.1  
GGCCTTTAAAGCCTTCGCTTTGGCTTCAGCTTTAGGAGGGGCAGGAGCTT  
CC  
>265.1  
CAACCGGGACCCCAGCTTTTCAGAACTGCAGGGTAACAGCCATCATGAGT  
GAGGTCACCAAGAATTCCTGGAGAAAATCCTTCACAGCTGAAATGCCA  
TTTCACCTGGAACCTTATTCAAGGAAGACTG  
>266.1  
TTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTCTAGGTATTGCTGGG  
CAAGATCCTTGTTGGAGTCTCCTCTTTTGCTGCCCACTCAGAGGATAG  
GCAGAGCAGACTGGCAGACACAACAGCACAAAGGAATGCAAGATGCATCAT  
TCTCACTGCCCTTACCTTCTTTGTCTACTGGGCTTCTCCCCGCGTACCTG  
CCCGGGCGG  
>266.2  
GAGCCGCGGGCAGGTACTACCTTCACCAACTTTTTCATTTGGGCATCAC  
AAAGACGAGTCTTCTGATGTTCTATAAGCAATATGTTTATATGAAAGTCA  
GAAGTTTAGCGAAAATTCGGCCTAAACAGTAATAAATGAAAATGGAATGG  
AAATCAAAGTTC  
>267.1  
ACTTTACCTCATTTCTACCAATCATTTTAAGAGAATTTGGTTGTATTTT  
AAAGAACAAAACAACACAATTTCTGTCCTGCTGTTTATTTTAGCGTGCTC  
GCGGCCGAGGTACGGATACAATTCGCTGAGTTAGATTCCAAATTCTAAC  
CTCTCCATCACACGCCCCAGAAAGGACAGTAGCCAGCTTCTCTGGATGCT  
TTGCCAAGCAATTGACTCCATCACGGTGACCATCCAGCGAAGCAAGGAAT  
GGTTTTGCAAATACTCGTTCCAGTTTGGTAGCATTTAAAGCTCTTATATA  
TTCTCGTGGGACCTCAAAGGATGTAAAGCAGGATCATAGTTTCTTGAA

Table 3

CTCTCTGTAAGTCCAACCTTGGTTTTCGCGGACATAATTGTCCGGATTCCGG  
CTCAGCATCTTCACCTTCATCTCGGTTGCTCTTC

>268.1

ACATTTATATGAAAGTCCTCACTTTCAGAAGCAGAAAAGGAGTAACTAGA  
TGGGCATTTTTCTATACCAGCTAAGGCTTTAAACATAACAACGTCTACTGA  
ACTATTTTCTACTTACTTTGACTGAATAAGCCAGTGAGATCGTGA CTGCA  
AGTGGAAGACCTTCTGGCACTGCGACCACTAAAACGTAACTCCAATAAT  
GAAGAACTTCACAAAGTATTGTATATAAATTGGTGTGCACTCAGCAAGCC  
ATGGTCTTTTTCTGAACCCAGAAGGTGTCAATGACAAAATATAATACTAGA  
ATGATAACTGTGATGGCAGGCATCAACAGACCTTTCAGAATAGAAATGAA  
AGAAAAATGTGATTATTAATTTCCAGACACTAACCCTTGACAGATATAA  
ATTAACACTGTAAAGAGTTATAACTTGCTTGATAGTATTGAATTTCTCT  
GAGAAATTACTTCTTTCTTGACCTTATAACTTGACATTGTCAGATTTAA  
TTTTT

>269.1

TTGGAGCTCCACGCGGTGGCGGCCGAGGTACGCGGGATAGTGGAGGCACT  
GAAAGACCAGCAGAGGCATAAGGTTTCGGGAAGAGGTTGTTACCGTGGGCA  
ACTCTGTCAACGAAGGCTTGAACCAACCTCGAGCGGCCCGCCGGGCAGGT  
ACAGATGCACAGGAGGCCATAGGGTTTAGGCAAAGGGGAGCACAAAAGTT  
GAAGATGAGGCGCTGCCACCAATGCTGGGACTTCAGGCCAGGGGCAGGAG  
CTGAGGAAGCCACAAGGGAGGACATTTTCTGCAGTTGCTGAACCACTAGC  
AACCAGGTCCTGAGAAAGCCCTCTCTTGTTGGAAGAATAACAGCCAGGAGG  
AAAAGCTTTTTCATTCTGCAAAGCTGGGGCAGAAAGTTCTTCTTTGAATCC  
CGCGTACC

>272.1

TTGGAGCTCCCCGCGGTGGCGGCCGAGTCCCACAGTTAGCTGCAGCAAAA  
CGCAGGCTGCCTCAGGGAAAGGAGCCTGGGTTGATTAACTTGTGTGTCAA  
TGTCCCACCCGTCCCAGGTAAACATTTTGCCCCCTGAGGTCCGGGGTAATT  
TAATGGCTGCTGGACAAAACCTCCAAAGTTCTTGAAAGATCAGAAATGAT  
AGCTACCTGGAGTCCAGCTGTACGGCACTTGGCGTAAAGCCGCTTCCCTC  
AAGAGTAACTACAATCTTCCCATGCACAAGATGATTAATACAGATCTTAG  
CAGAATCTTGAAAAGCCAGGAGATCCAAAGAGCCCTTCGAGCACCACGC  
AAGAAGATCCATCGCAGAGTCTAAAGAAGAACCCTGAAAAACTTGAG  
AATCATGTTGAAGCTAAACCCATATTGCAAAGACCATGCGCCGGAACACC  
ATTCTTCGCCAGGCCAGGAATCACAAGCTCCGGGTGGATAAGGCAGCTGC  
TGCA

>272.2

CGGCACTACAAGCCCAATCAATGAGAAGGCCGGCGGTTGCAGGCAAGAAG  
CCCTGTGGTAGGTAA

>274.1

TTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCGCGTCGATGCTATGCGCT  
CAGTTCTAGTCAGAATAATCTTGCTCATCCTCCAGCTCCCCCTGTTCCAC  
CAAGGCAGAATTCAAGCCCTCATCTGCCAAAACCTACCACCAAAGACTTAC  
AAACGGGAGCTTTCGCACCCCCCATTGTACGCGGGGGAGGAGCCTGAGGA  
AGAGGGCGGCGACGGTGGTGGTGA CTGAGCGGAGCCCGGTGACAGGATGT  
TGGTGTGGTATTAGGAGATCTGCACATCCACACCCGGTGCAACAGTTG  
CCAGCTAAATTCA

>274.2

AAAACCTCTGGTGCCAGGAAAAATTCAGCACATTCTCTGCACAGGAAACC  
TTTGACCAAAGAGAGTTATGACTATCTCAAGACT

>276.1

CGCGGTGGCGGCCGAGGTACGTTCTATTCTGCTCCTATTAGGTCCTTCT  
CACCACACCGGCCCTCGGTGCTTACGCCTCTCCAGTTCTGCTGGGGACG  
TTCTAGCCTCGCCCCACGCGCGTGCATCTTTATGTTATACCGTCACTCCC  
AGTGCCCTAATGGAACATCCCTCCACTCACTCCCCCTGGTTCTACCCCG  
GCTCCAAGAGCCTCTCCCGG

Table 3

&gt;277.1

GGAGCGGGCCCTACCGTGTGCGCAGAAAGTGGAGGCGCTTGCCTTCAGCT  
TGTGGGAAATCCCGAAGATGGCCAAAGACAACCTGAGCTGTTGCGTGCTTC  
CAGGGCCTGCTGATTTTTGGAAATGTGATTATTGGTTGTTGCGGCATTGC  
CCTACTGCGGAGGTGCATTCTTCTTTGTATCTTGACCAACACAGGCCTCT  
ACCCACTTGCTTGAAGCCACCGACAACGATGACATCTATGGGGCTGCCTG  
GATCGGCAT

&gt;278.1

TTGGAGCTCCCCGCGGTGGCGTTCGCCCGGGCAGCTACTTTCATCCATAA  
AGGCCTGCAGCTGTTTCATTGATCCTTGCAGTTCATCCATCACCAACTCC  
ATACAGTCAAAGACTTTGCTCTGGTCTGTAATATTTTCTGGTAGTCAGG  
TTTTGTATTAAGAACTTCATTCTGAGAAGACCCAAGATATGTCATAGGTT  
CCACTTTGACCTCAGTAATTTTGGCCTCAGTTGATCCTCTGGACAATATC  
TCTTAGCCTCCTGCTGGTAGTGAGGCAAGAGCTGATCCCAAGTCTGACG  
TTCTAAAGAAAACCTTGTATGTATTCCTTCATCTCAGCCACAGATGCTT  
CCAAAGAAAAATCTGATGCTTTTCCATTTGAATCTTCAAACATTTTGT  
AGAGTTCCATCAGTTTCCAGTCCGTCTGCA

&gt;278.2

AATGTTTCAATTCTTCAGAAAGAGAAGATGCTTTGGCTCTAAAACCTTCA  
AGACTGAAGCCCTTAGTGTCCCTTAGGAAAGGTTCAAGTTTCTGAATAGA  
GAAC

&gt;279.1

GCGGTGGCCTCCGAGGTACTACTCTGCACTGTTCTTTCTTTCTAATAAAA  
CTTCCCTGTGCAACCTATACTAGTCTTCTGTAAATCTTCTTACTACCC  
TATGACCCGTGAGCCAACCACTTTCCGATGCCAGGGTTCTGACACCTCAC  
CTGGCATAATATAAAGTGTTTTTTTTTATACCTTCCACTTGGAAGA  
CTACAGAGGAATCTTGCTCTGCATAGTTCAAACATAAAAGAGAAGAGTTA  
ATTACCTGAAAAGCAAGAGAAAACAAGAAGGGGTAAATTTGAACCAAGG  
GAAATCATTTAAGAAGTGTCTGGTATTTTCAAATTTCTGTCAGTTGTTA  
CATTTGTCATAAGTAAATGTTTAGGAATAAAGGATGGAGACATGCTTATT  
TTATTTAACTCCCCAAAATT

&gt;279.2

AAAAAAAAAAAAAAAAAAAAAAAAAAGTACCTGCCCGGGCGGCCGCTCGA

&gt;280.1

CGCGGTGGCGGCCGGAGTGATGCCATCTGCAGTTTTGTGATCTGCAATGA  
TTCTTCCCTTCGAGGTGAGCCATTATCTTTAATCCTGACTTTTTTGTGG  
AGAACTCCGACATGAGAAACCTGAGATTTTCACTGAGTTGGTGGTCAGC  
AATATCACAAGGCTCATCGATTTACCTGGAAGTGAAGTTGGCTCAGCTGAT  
GGGGGAAGTGGACCTTAAGTTGCCTGGCGGGGCTGGCCAGCATCAGGAT  
TCTTCCGGTCTCTCATGTCTCTCAAGCGAAAGGAAAAAGGAGTGATACTT  
GGGTCCCCACTGACGGAGGAAGGCATTGCCAGATATACCAACTGATTGA  
GTATCTACACAAAACTTGCGAGTAGAGGGTTTGTTTAGAGT

&gt;281.1

CGCGGGGGGAGACATGTGGAGTCCCAGCAGAGGCCAACCTGTGTCTCTTC  
ATCTCCCTGGGAAGGGTGCCCCGAAGTGAAAGAGATGGCCTGGTGGA  
GCC

&gt;281.2

AGATGGGCCAGGAGTCCAGTTTCTGGAAGGCCAAGAATCGAAGTAGCAAG  
CTGCAGCCGTTTTCCAGACAAGCATGATGTGGGGATGCAGAAGAATTCAG  
GACTGGAGGGGCAAACCTCCGATGTGACTGAGGCCCACTGCCAATGGCG  
GCATGCTCAGATAGCACCCAAGAATTTGGGGAAAAAACTGGTGCTCACAG  
CT

&gt;282.1

GGGCCCCAGGGGAAAAAACCTTTTGGGCCCATTTTTTTTCCAATTTTCC  
AATTGGGCCTTGGGCCA

&gt;283.1

Table 3

GTACAGCATTGGAAATGGATCTGTCTTTGGTAAAGATCAGCCTATAATTC  
TTGTGCTGTTGGATATCACCCCCATGATGGGTGTCCTGGACGGTGTCTTA  
ATGGAACTGCAAGACTGTGTCTTCCCCTCCTGAAAGAATGCATTGCGAC  
CAAATAAAGAAGACGTTGCCCTTCAAAGACCTGGATGTGGCCATTCTTG  
TGGGCTTCCATGCCAAGAAGGGAAGGCATGGAGAGAAAAGATTTACTGAA  
AGCAATGTGAAAATCTTCAAATCCCAGGGTGCATGCCTTAGATAAATA  
CGCCAAGAAGTCAGTTAAGGTTATTGTTGTGGGTTAATCCAGCCCATACC  
AACTGCCTGACTGCTTCCAAGTCAGCTTCATCCATCCCCAAGGAGAACTT  
TAGTTGCTTGACTTCGTTGGATCAC  
>284.1  
TGGCGGCCGCCCCGGGCAGGTACGCGGGGGCTCTAAGCTGCAGCAAGAGAA  
ACTGTGTGTGAGGGGAAGAGGCCTGTTTCGCTGTCGGGTCTCTAGTTCTT  
GCACGCTCTTTAAGAGTCTGCACTGGAGGAACCTGCCATTACCAGCCT  
CCTTTCTTGCCAAAGGGAGGGGGAAACATACATTTATTCATGCCAGTCTG  
TTGCATGCAGGCTTTATGGCTTCCTACCTTGCAACAAAATAATTGCACCA  
ACTCCTTAGTGCCGATTCCGCCCCAGAGAGACCTGGAGCCACAGAGCTT  
TTTTGCTTTGCATTGTAGGAGAGGGACTAAGTGCTAGAGACTATGTCCGC  
TTTCCTGAGCTACCGAGAGCGCCCGTGAACCTGGAATCAACTGCTTC  
>285.1  
TGGCGGCCGAGGTACTAGGTCCCAAATGTTTCAACCGATTTTACCCTATG  
TTTTCAAGGGTATTATAGAAGGGGAGAGGTATCCTGTAGTGATGTCCACG  
TATCTTGGAGTTATGGGTGCGAGTTCTACTACAAAACACTAGTTTTTTCT  
TCACTTACTAAATGAGATGGCCCATAAATTTAATCAGGAGATGGACCAGC  
TTTTGGGAAATATGATTGAAATGTGGGTTGATCGAATGGACAACATTACC  
CAGCCTGAAAGAAGAAAACCTTTCAGCTTTGGCTTTGCTCTCTCTTGCC  
ATCTGATAATAGTGTTATCCAAGATAAATTCTGTGGGATTATAAACATTT  
TAAGTAGAAGGCCTGCATGATGTCATGACGGAAAGATCCTGAAACAGGAA  
CTTATAAAGACTGTATGTTGATGGCTCATCTTGAGGAACCAAAAGTAACA  
GAAGATGAAGAACCACCCACAGAAC  
>286.1  
GTGGCGGCCGAGGTACCCGATAGAACATGGCATCATCACCAACTGGGACG  
ACATGGAAAAGATCTGGCACCCTCTTTCTACAATGAGCTTCGTGTTGCC  
CCTGAAGAGCATCCACCCCTGCTCACGGAGGCACCCCTGAAC  
>287.1  
CCGCGGTGGCGGCCGAAAACCTGATCAGACTGTCTCAGATCAAGGAAAAGA  
TGGCCAGAGAGAAGCTGGAAGAAATAGATTGGGTGACATTTGGGGTTATA  
TTGAAGAAGGTTACGCCACAGAGTGTGAATAGTGGAACCACTTCAGCAT  
ATGGAAACTGAATGATCTTCGTGACCTGACACAATGTGTGTCCTTGTTCT  
TATTTGGAGAAGTTCACATAGCGCTCTGGAAGACGGATCACGGGACTGTC  
GTATGGATCCTCAATGCCAACCCCATGAAGCCCAAGGATGGTTCAGAGGA  
GGTGTGTTTATCTATCGATCATCCTCAGAAGGTCTTAATTATGGGTGAAG  
CTCTTGACCTGGGAACCTGTAAAGCCAAGAAGAATGGAGAGCCGTGC  
ACGCACTGTGAATTTGCGTGACTGTGAGT  
>288.1  
GCCAAACGCTTCCGCAAAGCTCAGTGTCCCATTGTGGAGCGCCTCACTAA  
CTCCATGATGATGCA  
>289.1  
TGGACAGACTGGCTCAGTGAAGACATTTACTTTGATGGGACCAGATAGAA  
TCCGATAATTTTCTCATAACCTGAGAGGAGTTATCCCACGAAGTTTTGA  
ATTTTTGTTTTCTTAATTGATCGTGAAAAAGAAAAGGCTGGAGCTGGAA  
AGAGTTTCTTTGTAAGTGTTCTTTATTGAAATCTATAACGAGCAGATA  
TATGATCTACTGGACTCTGCATCGGCTGGACTGTACTTGGCCC  
>290.1  
TGGCGGCCGCCCCGGGCAGGTACGTGCGGGGCTCCGTAGGAAGCCTCATCTC  
CCTAACTAGCTGCTTACACAAAG  
>291.1

Table 3

CTCCGGGTGGCGGCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTGG  
GGGGAGTTAAATAAAATAAGCATGTCTCCATCCTTTATTCCTAAACATTT  
ACTTATGACAAATGTAACAAGTACAGAAATTTGAAAAATACCAGACACT  
TCTTAAATGATTTCCCTTGGGTCAAAATTTACCCCTTCTTGTTTTCTCTT  
GCTTTTCAGGTAATTAACCTCTTCTTTTTAGTTTGAAGTATGCAGTGCA  
AGATTCTCTGTAGTCTTTCCAAGTGAAGGGTATAAAAAAAACACTTT  
ATATTATGCCAGGTGAGGTGTCAGAACCCTGGCATCGGAAAGTGTTGGC  
TCACGGGTACATAGGGTAGTAAGAAGAATTTTACAGAAGACAGTCTAGGTT  
CGAAAAAGAAAGTTTTATTTGAAAGAAAGAA  
>292.1  
GGCCTTTTGGTGACTTGGTGCTCCTTGGAGTCACTGGAGTTCTACTTTGA  
ATCCCACCTCGACATCAATCGACTGCCTTAATTCCTGGTCCAGCTGCCCG  
ACCCTGACTCTCTCCCGCTCTTTTCTCAGGTGCAAGGTTTCTTTAAGA  
TCACGCTGACGTGCGACCCACGGCTGCCGT  
>293.1  
TGGCGGCCGCCGCCGGGCAGGACGCGGGGACATTGAGTGGGGATTAAGAGA  
AGGAAGGCTGCCTTGCTGGAGCTGTGTGGTCTTCTCCAAGTGAGAGTCGC  
AGGCAATAGAACTACTTTGCTTTTGGAGGAAAAGGAGGAATTCATTTTTA  
GCAAACACAAGAAAAGCAGTTTTTTTTTTCAGGTGCTGACGGCCACCCACCA  
TCATCTAAAGAAGATAAACTTGGCAAATGACATGCACGTTCTTCAAGGCA  
GAATAATTGCAGAAAATCTTCAAAGGACCCTATCTGCAGATGTTCTGAAT  
ACCTCTGAGATTAGAGATTGATTATTCAACCAGGATACCTAATTCAAGAA  
CTCCAGAAATCAGGAGACGGAGACATTTTGTGAGTTTTGCAACATTGGAC  
CAAATACAATGAAGTATTCTTGCTGTGCTCTGGTTTTGGCTGTCCTGGGC  
ACAGAATTGCTGGGAAGCCTCT  
>294.1  
TGGCGGCCGCCGCCGGGCAGGTACGCGGGGAGGCACATTCTTTTCTACGTGAA  
GAGTTTTGTAACTGAACCTTTGTTTTAGTTCCGGCTCCAGCCATCCTCG  
GGTAGCTTGCCAATAGATGAATCCCACTCGTTTGACCCATGACGCTCCTT  
CTTTGCATTTCTACCTCTTTCCCCACAGCAGTGCATGTCCACCATAACCA  
CTGAGAGTCTGTGGAATCTAATTTTCTGTTATACTTCTTTCTTACACTC  
ATTTTCTGTCTTTATTATGATAGTCTAACTTTTTCTCCTCAAAGGTATA  
GCTGCCTTGCTTTTCATGAAAACACACTTTTCTATTGTGATTTATCAGAGG  
CCTTTCCATATCTCAGCCACTATGCTATGACAGATTTTATAATTAATAAG  
TGCATTTCAAAGTGAAAACGTTACAAACATGCTTA  
>295.1  
GTGGCGGCCCGGAAGAGCAACCGAGATGAAGGTGAAGATGCTGAGCCGGAA  
TCCGGACAATTATGTCCGCGAAACCAAGTTGGACTTACAGAGAGTTCCAA  
GAACTATGATCCTGCTTTACATCCTTTTGGAGTCCCACGAGAATATATA  
AGAGCTTTAAATGCTACCAAACCTGGAACGAGTATTTGCAAACCATTCCT  
TGCTTCGCTGGATGGTCACCGTGATGGAGTCAATTGCTTGGCAAAGCATC  
CAGAGAAGCTGGCTACTGTCTTTCTGGGGCGTGTGATGGTAGAGGTTAG  
AATTTGGAATCTAACTCAGCGGAATTGTATCCGACT  
>296.1  
GCGGCCGCCGCCGGGCAGGTACGCGGGGCTCCCTTGTGAGTAGACTATGCAA  
AGAAAAAGTGGGCCACCATATCTGGAACTACAGTCTATGCTTTGAAGCG  
CAAAAGGGAATAAACATTTAAAGACTCCCCGGGGACCTGGAGGATGGAC  
TTTTCCATGGTGGCCGGAGCAGCAGCTTACAATGAATAATCAGAGACTGG  
TGCTCTTGAGAAAACTATAGTTGGCAAATCCCATTAAACCACAATGACT  
TCAAAATTTTAAAAATAATGAGCGTCAGCTGTGTGAAGTCTCCAGAAT  
AAGTTTGGCTGTATCTCTACCATGGTCTCTCCAGTTCAGGAAGGCAACAG  
CAAATCTCTGCCAGTGTTAACAAAAATGCTGACTCCT  
>297.1  
GTGGCGGCCGCCGCCGGGCAGGTACGCGGGGGGAGGGCTCCGAAGTCTGGTT  
TTGGGCGGGAATTGAAACCGCCGCTGAAGCCAACAAGAATTTGAGAACTG  
TAAATACCAAGCCTTGAAAGGGACCATGGTGCGGCCTGTGAGACATAAGA

Table 3

AGCCAGTCCATTACTCACAGTTTGACCACTCTGACAGTGATGATGATTTT  
GTTTCTGCAACTG

>298.1

TGGCGGCCGAGGTAAGTACTCCCCAGCAAATATTCTTTGTTGGCTTGCTTGACT  
AGATGAGCTGCTATAGTAGTCAATCCTGTTAGACTTGGACCAATTGTTTGT  
CTGAAGAACTGGAATCTGTCGCTCGCCCTGAGCACTGTATTTATCCCCT  
TACTCAGTCCCAGGGACTTCTCCAATAGCGACAACTCTGCGGCCGCCGCC  
ATCTTC

>299.1

TGGCGGCCGAGGTAAGTACTTCTGTCTTCCAGTTTTCCACTTCAAACCTTCTATC  
TTCTCCAAATTGTTTCATCCTACCACTCCCAATTAATCTTTCCATTTTCG  
TCTGCGTTAGTAAATGCGTTAACTAGGCTTTAAATGACGCAATTCTCCC  
TGCGTCTAGGATTTAAGGTCTTTTAAATCACCTTCGGTTTAAATCTCTTTT  
AAAAGATCGTCTTCAAATATTTTAAATCACCTACAACCTTTTAACTAAAC  
TTTAAGCTGTTTAAAGTCACTTCAATTTTAAATCTAAAGCAATTGCCCTTCT  
ATTGGTATTAATTCGGGGCTCTGTAGTCCCTTCTCTCAATTTTCTTTTAA  
ATACATTTTACTCCATGAAGAAGCTTCATCTCAACCTCCGTCATGTTT  
TAGAAACCTTTTATCTTTTCTTCCCTCATGCTACTCTTTTAAATCTTCAT  
ATTTTCTCTTAAATCTTAAG

>300.1

GGCGGCAGGTAAGTACTTAAAGGTTGACTGGTAATCAGGGTAACCTTCTGATACTT  
ATCACACAAGATGGTGCCTCAGCATTTAAATAAATGGAGGTAGGGGAGGG  
CGTGGTGGTAACATACTTTTAAACCAGCGATTGCACAGCAAACCAACAATG  
CAAGTATTTCTGACTCCCAAGATTGCCGTTTCTTAAAGAGCAATTCTTCT  
GCAGGCAACAGCAAACCTACCTTCTTCTGCTAACTGCTTTCAGTAAATTC  
TTGATGGCCTTCGATTCTGGATTGAGACATCTCTTCTCACCTTCTTTTT  
CATTGTAGCAATGATCTCAACACGTGGACAAAATTGGCTTGCAGGAATAA  
T

>301.1

CGCGGTGGCGGCCGGAGTGATGCCATCTGCAGTTTTGTGATCTGCAATGA  
TTCTTCCCTTCGAGGTGAGCCATTATCTTTAATCCTGACTTTTTTGTGG  
AGAACTCCGACATGAGAAACCTGAGATTTTCACTGAGTTGGTGGTCAGC  
AATATCACAAAGGCTCATCGATTTACCTGGAAGTGAAGTTGGCTCAGCTGAT  
GGGGGAAGTGGACCTTAAGTTGCCTGGCGGGGCTGGCCCAGCATCAGGAT  
TCTTCCGGTCTCTCATGTCTCTCAAGCGAAAGGAAAAAGGAGTGATATT  
GGGTCCCCACTGACGGAGGAAGGCATTGCCAGATATACCAACTGATTGA  
GTATCTACACAAAACTTGCAGTAGAGGGTTTGTGTTAGAGTACCTCGGC  
CGCTCTAGAAGTGGTGGATCCCCCGGGCTTCAGGAAT

>304.1

TTGGAGCTCCACGCGGTGGCGGCCGTGCGCCGAGCTTCTCTTGTCCATC  
TTCTCCCGCTGCTGAAATTTAGTTGCGGGCGCTGTACCTCAGGACCCC  
TCCCCCGCGTACGCTGGATAGCCTCCAGGCCAGAAAGAGAGAGTAGCGC  
GAGCACAGCTAAGGCCACGGAGCGAGACATCTCGGCCGAATGCTGTCTAG  
CTTCAGGAATCCCCGCGT

>305.1

ACTCAGGTTTTATCTCTGCACTCCAAGTAGGATGAAAAGTAAAGAGCAAA  
GGCTCATGTTTGCCAAGTCTGTCTTTTGTAAACAAAAAACCAGCAGCTT  
TATCAAGCAGAATTCCACCTGTATTTCTTAACTTGCCAGAGCTGAGTCTC  
ATGGCCACCCTTAGCAGGAGTTGGGGAGGTATTTTAAACAAGGCACATTA  
TCATCTCCCCACCCAAAGTGGAGCTATTGCTAATGAAAAGATACAATG  
AGATGTTTATGAAATATCTGTAGCTATTAATGTCAGGTTTTTGAAATTT  
ACTGACCTGGAAGAATACTCATAATGCAATGTCAAGTGAGAAGCAGGACA  
AAGAACATTTGCAATACAGTTGTATTTATAAAATTTTGTGTTACACACAA

>306.1

TTGGAGCTCCCCGCGGTGGCGGCTCGAGTACGCGGGGAGGCAGCGGAAAG  
CTCAGCCCATGTGAGGTGCCTCCTGCCAATCACAGACTACCCTTCCCTGG



Table 3

TCCTGGAGGTTCAAAGAATTGCAGGAGGGTAGAAAAGCACCTGGGTCGGG  
TGCAGACTGCGGAGCGGGCCCTACCGTGTGCGCAGAAAGAGGAGGCGCTT  
GCCTTCAGCTTGTGGGAAATCCCGAAGATGGCCAAAGACAACTCAACTGT  
TCGTTGCTTCCAGGGCCTGCTGATTTTTGGAAATGTGATTATTGGTTGTT  
GCGGCATTGCCCTGACTGCGGAGTGCACTCTTTGTATCTGACCAACAC  
AGCCTCTACCCACTGGCTTGAAGCCACCGACACGATGACATCTATGGGGC  
TGCCTGGATCGCATATTTGTGGGCATCTG

&gt;307.1

ATCACCATTATTCCCCTTTAGTCACCTCAGAGGCTTGTTAATGCTTTCTT  
TGTAATTAGGCTATATCTGGTATCTGTATAATATCTTCAGTTCTTCTTTA  
CCAGGGGTCTTACTCTGTTCTGAAACATGGCACCTCAGGCGGCTCCGGCA  
GCGCTGGACACAGGAAACTCCTGGGTCCCCGACTCCGGCTCTCCTCTACC  
CCCTCTTCGGTTAACTCCGCTTGTTTCTCTACAAAATGGCGCCGGAGGTC  
CCCCGCGT

&gt;309.1

TTTACAACCACAGCTAATGCAATTTTTTCCATTGTTCCCATTTTTTTCCA  
AACCTATTGGG

&gt;309.2

GCAAAGCCCATTTTTTTCCATGCATCTAAATGATAGATACAGGCTATGAA  
ATTCTTTATTCTATTTGTAGCAGCTTATGCAGGTGCAGCCAAACACAAAG  
CTTCAGGACAAATTGTACCTGCCCGGGCGGCCGCTCT

&gt;312.1

CGCGGTGGCGCTGCCGCGCCAGACTCTTGAGAAAGTATAGCAGCAAACA  
ATGCCTATTTTCACAGGAAACAGAACACATACCCAGAAAAATGCCCTGGC  
AATCATCAAATCACAGTTTTCCAACATCAATAAAGTGTTTAACTCCTCAT  
TTGAAAGATGGTGTTCTCTGGATTGAATATTGAAGAATTAATAGAGAACT  
TCAGTCTGGAATGGAGGTTATGGATCAGATTTGTGATGTGAGAATATCTG  
ACATAATGGATGTATATGAAATGAACTATCCACATTAGCTTCCAAAGAA  
AGCAGGCTACAAGATCTTTTGGAAACAAAACTCTAGCCCTTGACAGGC  
TGATAGACTGATTGCTCAGCATCGCTGTCAAAGAACTCAAG

&gt;313.1

TGGAGCTCCCCGCGGTGGCGGCTTCCCGGGCAGGCACCTTAGCATTAGAT  
TGAGTTATGTTGCTAGGAGATGTTTATTCATCAGCTGATCATTAAAGCATA  
TGGGGCTTACTTGGCCCCCTATCAATTTGCGTCAAAATAAATTAATTGT  
AGACCTGTCTTGTTTTATGAAAAAGCAATGTGATAGTCTTTAAATTTATC  
TTTCTAAACAAGACACAAGTTTACACATTACCCAGCACAGTAACCCCTCT  
TGGTATTGTTTACCTAAAAGGAAGAAGTAGGAAAACTGATATAAGTA  
GAGAGTTTATTTGGGCCAAGCATGAGGGTTACAACCCAAGTGTATGGAGA  
CAAGTTGCTCTGAACAATACACATTC

&gt;314.1

CGGTGAGGTACGCGGGGGGTCTCTGGAGGTCAAAGAATTGCAGGAGGGT  
TTAAAGCACCTGGGTGCGGTGCAGACTGCGGAGCGGGCCCTACCGTGTGC  
GCAGAAAGAGGAGGCGCTCAGGAATGCATGAATTGATTAATTAAATGTCTG  
AGAGCTGTAGATGGCTTTTCTCAAGGTGCTTCAAGTGCAGAAGCCCAAGT  
GATTGACCCACACACTTACCTTTGTGTTCTTCCAGAAAATCCTCAGGGA  
GTGCCTTCAGCTTGTGGGAAATCCCGAAGATGGCCAAAGACAACTCAACT  
GTTTCGTTGCTTCCAGGGCCTGCTGATTTTTGGAAATGTGATTATTGGTTG  
TTGCGGCATTGCCCTGACTGCGGAGTGCATC

&gt;315.1

GCGGTGGCGGCCTCCCGGGCAGGACCCTTAGCATTAGATTGAGTTATGTT  
GCTAGGAGATGTTTATTGAGTCAGCTGAAACTTAAGCATATGGGGCTTAC  
TTGGCCCCCTATCAATTTGCGTCAAAATAAATTAATTGTAGACCTGTCT  
TGTTTTATGAAAAAGCAATGTGATAGTCTTTAAATTTATCTTTCTAAACA  
AGACACAAGTTTACACATTACCTTTTGTAAACCCCTCTTGGTATTGTTT  
ACCTAAAAGGAAGAAGTGTAGGAAAACTGATATAAGTAGAGAGTTTATT  
TGGGCCAAGCATGAGGGTTACAACCCAAGTGTATGGAGACAAGTTGCTCT

Table 3

GAACAATACACATTCTTATTAGCAACAGTTATAAGTAGGTTTTCAAAGAA  
AAAGAAGAGGCAGTTCCTAAG

>316.1

ACAGAGACCTCCTTACTTACCCCCCTTCTCCTTCGGCTGGAGCTCGGCGA  
GCGAGAGGCGGCGCTGGCGTTGGAGAGCGACGGCGGCCCCCGCGTAAGCA  
GTGGTAACAACGCAGAGTAACGCGGGAATGAAGAATCTTAGGCGGGTGCA  
CCCAGTTTCCACCATGATTAAGGGTCTTTACGGAATAAAGGATGATGTCT  
TCCTTAGTGTTCTTGCATTTTGGGACAGAATGGAATCTCAGACCTTGTG  
AAGGTGACTCTGACTTCTGAGGAAGAGGCCCCGTTTGAAGAAGAGTGCAGA  
TACACTTTGGGGGATCCAAAAGGAGCTGCAATTTTAAAGCCTTCTGATG

>317.1

CCCGGGCAGGTACTCTGCAGAAAGTATAGCAGCAAACAATGCCTATAGAC  
AACAGGAAACAGAACATATACCCAGAAAAATGCCCTGGCAATCATCAAAT  
CACAGTTTTCCAACATCAATAAAGTGTTTAACTCCTCATTTGAAAGATGG  
TGTTCTCGGATTGAATATTGAAGAATTAATAGAGAACTTCAGTCTGGAA  
TGGTTTTTAAGGATCAGATTTGTGATGTGAGAATATCTGACATAATGGAT  
GTATATGAAATGAAACTATCCACATTAGCTTCCAAAGAAAGCAGGCTACA  
AGATCTTTTGAAACAAAACTCTAGCCCTTGACACAGGCTGATAGACTGA  
TTGCTCAGCATCGCTGTCAAAGAACTCAAGCTGAAACAGA

>318.1

TTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTATTGATGTTGAAGAT  
GAGAAATCTCCTCAGACTGAAAGTTGCACTGACAGTGGAGCAGAAATGA  
AGGTAGTTGTCACAGTGATCAGATGAGCAACGATTTCTCCAATGATGATG  
GTGTTGATGAAGGAATCTGTCTTGAAACCAATAGTGGAAGTAAAAGATC  
TCAAATCTGGACTTGAAAAGAATTCCTTGATCTATGAACTTTTCTCTGT  
TATGGTTCATTCTGGGAGCGCTGCTGGTGGTCATTATTATGCATGTATAA  
AGTCATTGATGATGAGCAGTGGTACGGGTGGGAATAGCACTACACTGTT  
CATCTAGCCTTGTAAGAATAAGTCCCAGTGAAGTATCTGCAGAATCT  
TCACTGTTATATA

>319.1

ACTTTTTTTTTTTTTTTTTTTTTTCAATGTTTCAGTTTCCTTTAATGACC  
CCCATCTCCCTGAAGGGCAGGTGCAGGCAGCTAGGTGATGGCAAGAGATG  
TTCACCTGAAGATCTTGCCCTGATTGAAGGCTTTGCCACATGCTGGAAG  
GCCCCCTCCAGGAAAAGTACCAGACATCAGCTGCCTCTTCTTCATTTTC  
AGCCAAAGAAAGGGCACGTTCAAATGAGGTGAGAGTCATATCATACTGCT  
GGGCATAGAAGCAACACAGCCCCAGATTGTTAAAAGCTGGCCGTTATAA  
ATGCCCATCTGCAGCAGCCGCTGTAAAACCGGAGAGCTATTTCTGGCTG  
ATCAGAATAGAAGTGTTGCTTCCAATGCATGCG

>323.1

TTGGAGCTCCCCGCGGTGGCGGCCGAGGTACCTTCAATACTTAAAAATAG  
TCTTCCACAAAAATACTTTATTTCTGATCTATACAAATTTTCAGAAGGTT  
ATTTCTTTATCATTGCTAACTGATGACTTACCATGGGATGGGGTCCAG  
TCCCATGACCTTGGGGTACTTTTTTTTTTTTTTTTTTTTTTGGAAAGCT  
CTGCCATAAACTTCTAGCGTGTGCCAATGGTACCTGCCACACTCGCACC  
AGGTTGTCCGTGTAGCCAGCAAACAGAGTCTGGCCATCAGCAGACCAGGC  
CAGGGAGGTGCACTGGGGTGGTTCTGCCTTGCTGCTGGT

>324.1

ACTTTTTTTTTTTTTTTTTTTTTTAGGGGGAGTTAAATAAAATAAGCAT  
GTCTCCATCCTTTATTCTAAACATTTACTTATGACAAATGTAACAACTG  
ACAGAAATTTGAAAAATACCAGACACTTCTTAAATGATTTCCCTTGGTTC  
AAAATTTACCCCTTCTTGTTTTCTTGTCTTTTCAGGTAATTAACCTTC  
TCTTTTAGTTTGAAGTATGCAGTGCAAGATTCTCTGTAGTCTTTCCAA  
GGGGAAGGGTTTTAAAAAAA

>325.1

TTGAGCTCCCCGCGGTGGCGGCCGAGGTACCATCAAGTTAAAAGCAGAAG  
ATGCTTCTGGTAGAGAGCATTTAATCACTCTCAAGTTGAAGGCAAAGTAT

Table 3

CCTGCAGAATCACCAGATTATTTTGTGGATTTTCCTGTTCCATTTTGTGC  
CTCCTGGACACCTCAGGTAAATTCTCCTCAGAGCTCCTTAATAAGCATT  
ATAGTCAGTTTTTGGCAGCAATAGAATCACTAAAGGCATTCTGGGATGT  
ATGGATGAAATCGATGAGAAGACCTGGGTACTTGCCCG  
>326.1  
TGAGCTCCCGTGGTGGCGGCCCGCCGGGCAGGACTTTTTTTTTTTTTT  
TTTTTTTAGGGGGAGTTAAATAAAATAAGCATGTCTCCATCCTTTATTCC  
TAAACATTTACTTATGACAAATGTAACAACTGACAGAAATTTGAAAAATA  
CCAGACACTTCTTAAATGATTTCCCTTGGTTCAAATTTACCCCTTCTTG  
TTTTCTCTTGCTTTTCAGGTAATTAACCTCTTCTTTTTAGTTTGAAC  
TGCAGTGCAAGATTCCTCTGTAGTCTTCCAAGTGGAAGGGTATAAAAA  
AAACACTTTATATTATGCCAGGTGAGGTGTCAGAACCCCTGGCATCGGAAA  
GTGGTTGGCTCACGGGTCATTAGGGTAGTAAGAAGAA  
>327.1  
GTGGCGGCCGAGGTAATAAACCAAATAAAAGTGACATTTGAATTTCT  
TTTAAAGGATTTCCGAGCTCACAGTCAGCTTGCGAGCCATTCTCCCGCG  
TACCAGCACAAACCGGCCAGCCTCCTAACTGCTCATTTACTGGGCGTC  
TACCCGGGAATCC  
>328.1  
CCGCGTCCGCCTCTAGTGTACAGACACTCCTGGGTTTGGAAATTTGTG  
TTCTCTGTCTCTTTGATTTCTGGAAGACGACACCATGACAATTTCAAAG  
AAAATAGAACAAATGAAGGAAAAAGAGGCTCTGTCTTAGCACATTCCTG  
TGACCAAGCCTGCTGTCTGTGGCGTGCCTCCTGGCCCGGCCTTGGCACAT  
GTTGTTTTTGTGGTTGTTGCCTGGACAGGCAACTCTGCAGGGCTGCTTC  
TCTACGCATCCCTTTGCCTGCCTGCCTGTGCCAGGGGTTGTCAAGGGCT  
TTGGGTCAGAGTGGGCACCCCTTTCTCCAAGGCTCCCTGCAACAGCTGGC  
CTGCTCCCTGGTGGGCTGACAGCTTTCTTCTTACCCTGCCAGGCTGGCCA  
AGCCCAAGAGGTGACCTATGAGGCAGAAGAGGGCTTCTT  
>329.1  
TACTTTACAGGATGGCATTTAATACAGATATTTCTGATTTCCCCCACTGC  
TTTTATTTGTACAGCATCATTAAACACTAAGCTCAGTTAAGGAGCCATC  
AGCAACACTGAAGAGATCAGTAGTAAGAATTCCATTTTCCCTCATCAGTG  
AAGACACCACAAATTGAAACTCAGAACTATATTTCTAAGCCTGCATTTTC  
ACTGATGCATAATTTTCTTATTAATATTAAGAGACAGTTTTTCTATGGCA  
TCTCCAAACTGCATGACATCACTAGTCTTACTTTTGCTTAATTTTATGA  
GAAGGTATTTCTTATTTTAATTGCTTTTGGGATTACTCCACATCTTTG  
TTTAATTTCTTGACTAATCAGATTTTAAATAGAGTGAAGTTAAATTGTGG  
GTCATAAAAAGCATTGGATTGACATATGGTTTGCCAGCCTAAGGGTTTAC  
AGGCATTGTCCAAACATTTTTTGAGAACTATATTTATAAG  
>330.1  
CCGCGGTGGCGGCCGAGGTACGCGGGGATAGTTCACCTCACTTTCAAAGCC  
AGCTGAAGGAAAGAGGAAGTGCTAGAGAGAGCCCCCTTCAGTGTGCTTCT  
GACTTTTACGGACTTGGCTTGTTAGAAGGCTGAAAGATCGAGCGGCCGCC  
CGGGCAGGTAATTTTTTTTTTTTTTTTTTTTGGCTTTCTTTGCTCCTTC  
TTATGATCAGCCACATTTCTTCGACCTCCTTCTCCTTCATCCTCAGAAATC  
TGAGAATTTCTTCATCACAAAGCTATCCGCTTGTCTGATGCTCGAATAGAAA  
TTCTCTTGTCTGGATCTTCTCCATCTTCATCTCCACTGTCTTCATGAACA  
GCATCTTCTGGAATAGCCTGCATCTGGACACCAGGTGCATGAGGTAACAT  
GCGCAAATTTCAAACAAACGCTGTTTTATCTTTTCCATATATTTGGAGT  
GTTCTGGTTTGTCTGTTG  
>331.1  
TGAGCTACCCGGGTGGCGGCCGGGTACTAGCAGTTGCCATGAAGGAGGCT  
TTGTTTCGATTGTATAACACAGAATCACAAAGTTTCAGAAAGAAGTGCTTC  
AAAGAATGGATGGCTCACTGGAATGCCGTCTTTGACCTGGCCTGGGTTCC  
TGGTGAACCTAACTTGTACAGCAGCAGGTGATCAAACAGCCAAATTTT  
GGGACGTAAAAGCTGGTGAGCTGATTGGAACATGCAAAGGTCATCAATGC

Table 3

AGCCTCAAGTCAGTTGCCTTTTCTAAGTTTGAGAAAGCTGTATTCTGT  
>332.1  
CCGCGGTGGCGGCCCGCCGGGCAGGTACCATCTGACTTGGCAATGTAATG  
ACACACACGTTAGTGTGGGGCACAAACGTGGAATATTAGGAGAGAGCTGG  
TTCCAGCACCAAATCCAGAGTCACTCGGGGAAGGAGGTATGGTGGCAACA  
CTTTATGCTTAATATTCAATTCTGCTCCAGTAGAACATGGTACCT  
>333.1  
GTGGCGGCCGCTCGGGCAGGTACGCGGGGACTCTGAACGTGCTAAAATGG  
GAAGGAGGCGGTGTTTTGCTGATCTGTTAAATTCTTAGTGAAGTTTCCTT  
GATTTCCAGTGGCTGCTGTTGTTTGAGTTTGGTTGGAGCAAACTGAGG  
TAGTCCTAACATTTCTGGGACTGAATCCAGGC  
>334.1  
CCCCGCGGTGGCGGCCGAGTTTGATTTCTTGCACTCCTGAGCGATGGAGC  
CCGGGGGTGCCTGGTTATTGTCCGCTTTCTCTCAGATGCTTGGCTTGT  
TTTTCAAGAGAACCTTTTCGATATTCAATTGCTCCATCGATTGGATCCAG  
TCCTTGTTCCAGAAAATTGTTTCAAGGCACTTAAGGCTGCCTGAAAGCCTT  
GAATCCTTGCTAAATATTCCAGTTGTTTTGAAGGTTGTACCTCGGCCGCT  
CTAGAACTAG  
>335.1  
ACTTGACTGCTAACAACTTTCAAATTCTTCTACTTACTCCCTCTTCTTCA  
GCTTCACATCTGGGAAAACCTGATAGGGAAGCCTAGGTAGGCCTACCTTG  
GTGCCAGAGGGAAGCTCAATCCATGCAAGCCCCAGATAATATATGAGAAC  
CTCCCCAACCTTACCCTACACCCCTCACCTCCCAATCCAAGCCAGTCTCC  
TTTCCCTGCTTTCTCAAACCATGTTTGACCTGCTTGGAAGCTCCCTCTG  
CTCTCCCTAGAAAGCTTCATTATGTGAGTGATACATCTTTTCATATCTTC  
TTGGTGGTGTGTGTGTATCATCAGCCTCAACATCTGAAGCAAATGTT  
GGGGGGGGGT  
>336.1  
ACTCATGAAGGAGATGGCCCTTTGGGAGCAACCAGAGAATCACTGAGAT  
CCCAATGGAAACAGGAGGTTCCAGCCAGAGGAACCGACTTTTAAGGGATCA  
CAGAGCTCACACCAAAGACCAGGGGAACAGTCAGAAGCCTGGCTTGCTCC  
TCAGGCTCCCAGGAACCTGCCTCAAAACACAGGTCTCCACGACCAGGAGA  
CAGGTGCTGTGGTCTGGACAGCTGGGCCCCAGGGACCAGCCATGCGTGAC  
AACAGAGCTGTATCCCTCTGTCAAGCAAGAATGGATGTGCCCAGGCCCTGC  
ACAAAGGGGCCCTCTACAGGGGTGCCACCCAGAGGAAGGACAGTCACGTCT  
CGCTGGCAACAAGGTGTGCCCTGGGGCTATGAAGAGACCAAGACGCTCCT  
GGCTA  
>337.1  
GGTGGCGGCCGAGGTACGCGGGGATAATCAAGGTGTACATCCCGGTGGCT  
GGACATGCCCTCTTGGGCTTGGCAGATGCCAGTGGATCCATACAACCTACT  
CCGCCTGGTGAATCTGAGAAGAGCCACGTGCTGGAGCCATTGTCCAGCC  
TTGCCCTGGAGGAGCAGTGTCTGGCTTTGTCCCTAGATTGGTCCAAGTGGG  
AAAACCTGGAAGGGCCGGGGACCAGCCCTTGAAGATCATTAGCAGTGACTC  
CACAGGGCAGCTCCACCTCCTGATGGTGAATGAGACGAGGCCAGGCTGC  
AGAAAGTGGCCTCATGGCAGGCACATCAATTCGAGGCCTGGATTGCCGCT  
TTCAATTACTGGCATCCAGAAATTGTGATTTCAGGGGGCGACGATGGCCT  
TCTGAGGGGCTGGGACACCAGGGTACC  
>338.1  
GGGGAGGCCAAAAAAAAGGGGGGGGAAAAAAGCCCCGGGGGGGGGGGGG  
GC  
>339.1  
TTTTTTTTTTTTAATGCTGAAGATTTAGATTTATTTGAAAACACTTAGT  
CTAATTTATATTAGTGCAGAAAAATCACATTCAATAAACCACAATTGTAG  
AAGAGACAGATAAGTGTGTTTGTACATTTTCACACAAATATAATTTGAT  
ATTTAATTAAGGGATGATGAAT  
>340.1

Table 3

GGAGCGGGCCCTACCGTGTGCGCAGAAAGAGGAGGCGCTTGCCTTCAGCT  
TGTGGGAAATCCCGAAGATGGCCAAAGACAACCTCAACTGTTGCTTC  
CAGGGCCTGCTGATTTTTGGAAATGTGATTATTGGTTGTTGCGGCATTGC  
CTGATGGGAGTGTATC

>341.1

AATACTGCCAGTTTTCCAAGAAATTTGTAAAGTTGAACATGGCCATCTA  
CTCTTGCCTTAAAACTTTTCTCACCACACCCACCTTCCCACATGCATGAT  
ATCCAAGGTCGACAGACCTGGATTAGAATCACTCTAAGCTTTATGCAGTG  
CGTATTGTATTTCTGCATAAGAAAGGGCTGCCTCTAGAACACAGTAAGT  
GTATTTGCCAGTAGTGACATTGCCTACATATAGCCAAGTGTTATAGTAT  
ACCAACTTAGTATATTTTCAAGGAGAGCTAAACCACCTTTTGTAAATGTT  
CGGTTTCTCACTGTTATCTTCTTTCTATAATTAATTTATTTTAAATCTA  
CAAATTGACATAGGGCTAAAAGCTTCAATATTTACAAAATATTAATTA  
TGTAATTGTTCCCAATTATTAGAACTTTTTTCCATTTTCAAATGTTT  
GCCAACTTCACACAAGTGTGTAAAAATAGGGCTCTGGATTTTCAAAGCA  
CATACATGAATAATTTATTAGCTATTCCAGGCAAGCTAAGTA

>342.1

GTGGCGGCCGAGGTACAGGTTTAGTCTGAATGCACTGTCATGAAATTTAA  
ACTTTTATTATAATACTGTTTTAAGAACTTACAGCATCTGCTTTACAAAT  
GGTGTTAGCTACATGTCGACACAGCATCTTTAGCCAGTTTTCTTTGGAA  
GTTTCTCTGATGTOATCTGGAACTGAGTAGCACATTTGCCTGCTCTGTT  
GGTGGCCTCACAAAGCAAGGCAAAAGCATTATGGCAATCTAGGGTTCCAGA  
ATAACCATAAACATTAAGTGTCACTCCTTGGAAAATGACAGATGTATGCA  
AGTTTAGTTCCTCAGAGCAATGAAATCCAATGAAATGAACTATCACTT  
CTCCACTTTCTTGTCTATTTTTAATAAGACAAAGAACATCACCATATT  
AAGTTGAAGT

>343.1

ACATCAGAGATGCTCACACATTCTTTGAGTAGTTTAAAACTCATTTTAA  
CCACTTTTTATTCTTTGTATTCAAACCAATCACTGGCAATAGCTCTAAGT  
AGGTCATCAACTCTCCTCCATGTCTTCTTTCTAATTCTGCCACAGACTCA  
CTTCTTCCGTAATTAATGGAAGGAAATGAGTGTCTGAGTTCTTAGAATC  
TCAAAGGCATGAGGATAAAGCTTTTCTGGAGATAATATAAGTGTTGGCA  
GGAAAGATTTGGGAGCCAGATGATACTCTTTTCTCTTAGAGAACTCTGT  
GGAAGCTCTGCCTATACTGTGGGAAATAAATTCTAGACGCTGGCTTCTTT  
CTGTAGTAAACATGTGGGCCCTTTAAATGTTGAACCAAAATGTGCTTCA  
AATATAGTTTAGTTATAAAACATTTATGGGGGAGTATGTATGTGCCAACT  
ACAGAGGCTTCAGAGATGAAGAAACAGTTCTTACCCTAGTGTTGCTTAGA  
ATCTAGTAGTAGTAAGTAATAATACTAACATATGCATTTACTATATAGG  
CAATACTAGGGTAAATATTTTACATAGATTACCTTATTTAGTAGCTCTTA  
GCTGCTAAAAAAAAAAAAA

>344.1

ACTTTTTTTTTTTTTTTTTTTTTTGTGGGAGTTAAATAAAATAAGCATG  
TCTCCATTCTTTATTCTTAAACATTTACTTATGACAAATGTAACAACTGA  
CAGAAATTTGAAAAATACCAGACACTTCTTAAATGATTTCCCTTGGTTCA  
AAATTTACCCCTTCTTGTCTTCTTGTCTTTCAGGTAATTAACCTTCTT  
CTTTTAGTTTGAACATATGCAGTGCAAGATTCTCTGTAGTCTTTCCAAG  
TGGAAGGGTATAAAAAAAAAAACACTTTATATTATGCCAGGTGAGGTGTCA  
GAACCCTGGCATCGGAAAGTGGTTGGCTCACGGGTCATAGGGTAGTAAGA  
AGAATTTACAGAAGACAGTATAGGTTCCGAAAA

>345.1

ACACTGCGGCGGGGGCAGAAAAGCTGCAAGGAACAGAACCCAGCAATGCAG  
AAGCTCCTCGAAGGGCCACCATCATCCTGCAAAACACCAAGCAGGGCAGT  
CTCTTATCTGTGGCTCTTCTCAAGGATGTCTCAAGGGCTCCGGTGGTGC  
TCTCCTGCTCTATCCGCTGCTGTGGCAAATCCTCTAAAAACAGCGTTTTG  
CACAGCAGAGAGCAAAGTCCGCTTGTATTCCACCCGATACGTGAGCTCA  
GTTTGCCAGCTAGTGATCAAGTCCAGCTGTTGGCAAGTTGGTCCCTGAGG

Table 3

CCTTGTAAGTACCTGTGGCAGAGAGCTCCCTGGGTCCAGCATCTGTTG  
CCCTCACCCCTTGACACATGCGGACCCCTCCCCAGG  
>346.1  
TTGGAGCTCCACGCGGTGGCGGCCGGGTACAAGAGATAGAAAGACCAGT  
CCTTGCTGAAAGACAAGTCTGAATGCTCCACTTTTTCAATTCTCTCTCCA  
TTCTTCAGTAAGTCAACTTCAATGTCGGATGGATGAAACCCAGACACATA  
GCAATTACAGGAAATTTGACTTTCCATTCTCTGCTGGATGACGTGAGTAAA  
CCTGAATCTTTGGAGTACCCATTCCCTTGATGTCTACAATATCACCTTTC  
TTATAGATTTCGATATATGTGGCCAAAGGAACAACCTCCATGTTTTCTAAA  
AGGCCTAGAGAACATATATCGGGTGCCTCTCCTCTTCCCTTTGTGTTGC  
TCATTTTGGCGAATTACTGGAAGATG  
>347.1  
ATCCCTTAATTTCTTTGCTGGAGCATTTTAAAGCAAATATCAGACATACC  
CTTTCACGCCTCACACTTCAACATGCGGCTTGTGAAATTCGTGCTCCAC  
TCCAGCAACTGCTTTCAATCGGAGTTCATCCTCCGCCGCAGTATGCCCT  
AACGCAGCGTTATC  
>348.1  
ACTTGACTGCTACAACCTTTCAAATCTTCTACTTACTCCCTCTTCTTCAG  
CTTCACATCTGGGAAAACCTGATAGGGAAGCCTAGGTAGGCCTACCTTTGG  
TGCCAGAGGGAAGCTCAATCCATGCAAGCCCCAGATAATATATGAGAACC  
TCCCCAACCTTACCCTACACCCCTCACCTCCCAATCCAAGCCAGTCTCCT  
TTCCCTGCTTTCTCAAACCATGTTTGGACCTGCTTGGAAAGCTCCCTCTGC  
TCTCCCTAGAAAAGCTTCATTATGTGAGTGATACATCTTTTCATATCTTCT  
TGGTGTGTGTGTGTGGTATCATCAGCCTCAACATCTGAAGCAAATGTTGG  
GTGGGGGGT  
>349.1  
CGCGGTGGCGGCCCGGAAGGAGGAGAGGTGCTGTGCTGTGTATGAAGAGGC  
AGTGAAGACTCTGCCAACAGAGGCCATGTGGAAGTGTTACATCACCTTTT  
GCTTGGAAAGATTTACTAAGAAGTCAAATAGTGGGTTCTTAGAGGGAAG  
AGGTTGGAAAAAACCATGACTGTATTTCAGGAAGGCACATGAAGTGAAGCT  
TCTGTGAGAATGCCAATACAAGCAGTTGAGTGTTCGTTGCTGTGTATA  
ACTTCTGAGGGAAGCTCTGGAAGTGGCAGTAGCTGGAAGTGAATTGTTT  
AGAGACTCTGGGACAATGTGGCAGCTGAAGCTGCAGGTGCTGATCGAGTC  
AAAGAGCCCTGACATAGCCATGCTTTTTGAAGAAGCCTTTGTGCACCTGA  
AACCCAGGTTTGTCTGCCATTGTGGATTTCTGGGCAGAGTGGAGT  
>350.1  
GTGGCGGCCCGCCCGGGCAGGTACCCGTGCTAAAGACTTTTATGTTCCGGCTC  
TCCCAGTGTTTTTTTTTCGTCGATTTGGGCACAGAGTTTCTGTTTCAGC  
TGGATGTGAGGATCCTTTACTCCAGATCGCCAGCCAGTTTTTGTTTTTT  
TCCTGCGTTGCTGAGAGTCTGGGTTTATTCATCACACCAGGTGGATCTTA  
ATTCCATATCCCTGAGGCCACTGCAATGAGGCAGAGGAGTGTGCTCCCTC  
ATGAGAAAGGACTGGAGACCGCCCCCAGAAGAGAACGTATCCATGT  
>351.1  
CGCGGTGGCGGCCCGCCCGTGTGCTGGTCTTATTATTGCCCGTTGTTTCTGG  
ATGTGAATGGATTACAATGTATTTTTTTAGGGAAATCCTATTATTATCAA  
TGTGACTCCACGGGGGAGTCCATGGTGATGATGATGAGGAGGAGGATGAT  
GATGATGAGACACCTCTAACTTGAACAAGTTTAAGACTTTATGAGAGA  
AGAAAAAAATCACCAACAAGAATTGTTTGAGGAAAAATCATAACTATCC  
TGTGTTCATTTTTTTTTATAAACAATAAGAAAAAGTTGTTGGATTTTT  
TTTTAATGATTTCTTTTTTGGGGGAGGGAATTTGTTGCAGTTTTATGGT  
GGAAATGCAAAAACCAGAGCCAGGTGCATAATCTTGAATCTGTGGATA  
TCCCTGGAGCAGGACTGATGT  
>352.1  
TGGTAACAACGCAGAGTCCCGGGAAGCAGTGGTAACAACGCAGAGTCCCG  
GGAAGCAGTGGTAACAACGCAGAGTCCCGGGAAGCAGTGGTAACAACGCA  
GAGTCCAGGGAAGCAGTGGTAACAACGCAGAGTACCCGGGGAAAAAAGGC

Table 3

AAATAGAATGAGAACCATATTATGT

&gt;353.1

CGCGGTGGCGGCCGAGGTACACCCAGCTTTGTCTCCTGGCCCCAAATCTC  
CTTTTCCTTACTTTGGGCATTAACTGCTGTTGAGGTCTCACAGCCTGATG  
GTCATTATCCCTGAATGGCATAAATCAACAGGCTGTATGAGCATTGTGTG  
AGATTCTACATGAGGGAGAGCATTTCAAACCCATGACAGATGAGAGAAGT  
TAGTACACTCTCACTGAAGTGGGGATGTTTGAAGTAAATGATGGACAAT  
AAGATAGTGAGCAGTAAGTGTGCTCTAGGCTAGGCTACGAGAGGCCATGA  
GCTCCTCATCTCTTCTCTGTTCTGAGCTCTCTGATCCACCGCACTTGGGG  
CAGGGGGTGCATTCTCTGTGCCTCTCCTGAGTCTACTTTCTGCATCATTG  
GTTCTCCAGCTCACTTCCATAATGTCTCCTAGGCTGCATTGGAATTGT  
GTGTTGTCTAGACCCATGGCCAACACTGTCATTGCCTGTGAGGGAG

&gt;354.1

ACTTTTTTTTTTTTTTTTTTTTTTGCCTTTAGAAGGTTAAAATGCCAATA  
TAAAGCTAAAACAGTAATCATCAGAGACAGCTCTAATAAGGCTTTGCTAC  
TGTTTTACTATATAAATCTTACGTGTTAATGGAAAGAAAATTAATTCA  
TTCTGTTACTCCATTTTTTTCTCTCCATATTGTATGCCTGAAGTGAGCTG  
ATGAGGGGGCAGAAAGATCATAAGTTAGGAATGAAGACATCAGAATGTTT  
CACTAAACAGATATTTAACTAGATACTATTATACTACTAAGAATAGCAAG  
AATGTCTCTCAATTCTGGGAATTTCTCCTAGCTCACACAAATGAAACGCA  
CATCTCCATGAATGCTTTCTAATAAATGCTTCCAGGATAGTATCATAAAC  
AAAGTCAAAATTAAGAAAAATCACCTCCATGGCATCCTGGTCATTCTCCA  
TCAGCTCACCTTTCTTCTTATCAGAATCCACAACCTGCTT

&gt;355.1

TGAGCTACCGGGGGCGGCCGAACCGCCATCTTCCAGAATTCGCCAAAAT  
GACGAACACAAAGGGGAGGAGGAGGACCCGATATATGTTCTCTAGGC  
CTTTTAGAAAACATGGAGTTGGTCCCTTTGGCCACATATATGCGAATCTAT  
AAGAAAGGTGATAATGTAGACATCAAGGGAATGGGTACTCCAAAGATTCA  
GGTTTACTCACGCCATCCAGCAGAGAATGGAAAGTCAAATTTCTGAATT  
GCTATGTGTCTGGGTTTCATCCATCCGACATTGAAGTTGACTTACTGAAG  
AATGGAGAGAGAATTGAAAAAGTGGAGCATTGAGACTTGTCTTTCAGCAA  
GGACTGGTCTTCTATCTCTTGT

&gt;356.1

CGCGGTGGCGGCCGAGGTACCTGACTGTGGCTCAGATCTGCGTCGCAGCA  
GCGAGAGAAGAAATCACTCCATATCCGATGAGAGGAAGGGTGGCACAGAG  
ATGGTGTCTACAATTAGAGACATTTCTGACTCCACCTTAGCCTAAGCAAA  
CTTTATGTACTGAGTAACATTTGAAGTTGTCTTTAATGGTGGGGGGTG  
TTTTTCTTTTTTAACTACAGTGCTTGCACAAGAGAGGGAGGGACTCAG  
AAAAGGTTAGGGCAGGTGAGGGAGACAGTAGATGGCCTGGGATGACTTGA  
GTCCATCATACTATTGCTTGGCAGGTGTCTCCCCCATGTTTGATTCAA  
TTCCATGAGTGACCTACCTTTCCCAGGAATGGGACTGAGAGGGTAGTCT  
TCCAGCAACTTAGTCTGCACAGGGCTCCCGTTGAGGCTGCCTTTGGTGG  
TTGTGCTTTTGAAGTTTCTTCTCTGCACTTCGACTTACCTTTGAATCA  
GAAAGCAAGCCCAGCAGGTGAATG

&gt;357.1

ACCATCTGACTTGGCAATGTAAGACACACAGTTAGTGTGGGGCACAAAC  
GTGGAATATTAGGAGAGAGCTGGTTCCAGCACCAAATCCAGAGTCACTCG  
GGGAAGGAGGTATGGTGGCAACACTTTATGCTTAATATTCAATTCTGCTC  
CAGTAGAACATGGTACCACCATTTCCAAGTTCAAAAATTATCTTTGAT  
TCATTTTGTTCCTTCTCTAATATGTCACCAATTCTGCTGATACATT  
CTTTGTAATCTCTCCATCTATTTAATCTGTTATTCACCTGAGCTACACA  
AACATTGCTGCACAAGGAGTATTCACGTGCTGAAAAGACAGAGGATT  
AAGCCCTCCTTGTGGAGGCATTACAGTCTGGTTTTAATACACAAACCAA  
CAATTATAATACACAGGGATAAAAAAAGTAGAGGCACTTATTGCATACCT  
GT

&gt;358.1

Table 3

ACTTTTCTAGCAGTCTGTGGCCACTCCATACTCAGCTGAAAACACTGTTT  
CAGCCCCCTCTCTGGTGACCTCAGCCTTCTCCAGGTGTATCTCTTGATGA  
TCTTGGAGACCAGCAGCCACAGCTGCTGCTACTCCTGCAGGAGACTGTCA  
GGCTGTGGTGGGGGGCAGGGGTGTTGGAGGAGAAGTTGAAAATCCGTGTG  
TTCTCTGTCCCTCTGCTCCTCCATCTTAGCTTCTGGAGGAGTTAAGGCAC  
CAAGGGCA

&gt;359.1

GTGGCGGCCCGCCGGGCAGGTAAGTGTGTGATCGGAACGTGTCGATC  
CCCTCTTCTCATCACTGCTGCTCCAAGTGGATTTATTACTCCGGAATGG  
TAGAGAATAAAGATTTGTAGGAAAGGTGCTGAACTGCCAAGGAAGGCATT  
TCTTGTGCCGTGTCTGGAACCGTGTATCCTTACTACATCACTGAACGACA  
CCAAGCACCCCATGCACTTCTGGGTCCAACCTTGGCCCCTGAAGAAAGAC  
ACTG

&gt;360.1

TGCAAACTAAACACGCCCGAGGAAATTTGGCCAGTTATCCAATTGATGA  
ACTAGTAGATAGAGCCAAACAATCTTTCAAGAGGGTGTGTTGTGAGATAT  
GGTTGACCAAGTGAAGACACGGGGGCTTATGGCAGAGATATTGGCACC  
CTGCCACACTCCTGTGGAACTGGTTGAAGCGATTCTGAGGGAGCAAT  
GCTGAGGCTTGGCATGACAAATCCGCCCTATATTTAGAGCATCTGGAGG  
AAATGGCAGAAATCCTTAATCACCCAGAGTCTACGCTTTTCTGCACATA  
CCAGTCCAGTCTGCCTCCGACAGCGT

&gt;361.1

TGAGCTACCGCGGTGGCGGCCGAGGTACTTAAACCAAATAAAAAGTGA  
CATTTGAATTTCTTTTAAAGGATTTCCGAGCTCACAGTCAGCTTGCGAG  
CCATTCTCCGCGTACCAGCACAAACCGGGCCAGCCTCCTAACTGCTCA  
TTTACTGGGCGTCTACCCGGGAATCC

&gt;362.1

TGAGCTACCGCGGTGGCGGCCGAGGTACGTATGCACAGCCTCACACTCT  
ATAAATGTATGTGCTCCTGAATTTAGAGCTTAATAATGAATTATGGAAT  
TGATAATGATTGGATCAGGCAGACAACACCTGATCAGTCCTAATATCAGA  
AAAGAGACAAGTAGACATTATGTGCTTCCTGAGGTGAGGCAGTAGTAAGG  
AAACAACATCACACATGTAGCAGTCTTGGGAAAAAAATGTAACCTGTAT  
CTCGTAATGAGGAAACAATCAGTAAAAAAGTCTAGATTGTGGGACATTCC  
ACAACTTGCCTGAATCTTTAATAATGTCACTGTCATGAAAGACACACC  
ACACACACACACTGCACATCATACACAAACACCACCCACCACCCACCAC  
TCAGACACACACAAAAGGGCAACTCTAATCAATTAAGGAAACAAAAGAG  
AATGACAACATACATATAACGTATAATTCTTGATTGGATCCTGGATTAAA  
AATAAACAGCTATAAAGGATAT

&gt;363.1

CTCCCCGCGGTGGCGGCCGAGGTACTTAAACCAAATAAAAAGTGACATT  
TGAATTTCTTTTAAAGGATTTCCGAGCTCACAGTCAGCTTGCGAGCCAT  
TCTCCGCGTACCAGCACAAACCGGGCCAGCCTCCTAACTGCTCATTTA  
CTGGGCGTCTACCCGGGAATCC

&gt;364.1

CGGGTGGCGGCCGGGTCAACGCAGAGTCCCGGGAAGCAGTGGTAACAACG  
CAGAGTCCCGGGAAGCAGTGGTAACAACGCAGAGTCCCGGGAAGCAGTGG  
TAACAACGCAGAGTCCCGGGAAGCAGTGGTAACAACGCAGAGGCTTTTCA  
CAGAGCCAGGGTGCCCGGACTGAAAACCTCTTACCAGCCCCCTCCAC  
AGGATATAGAAGACTTAGATCACTACGAGATGAAAGCAGAGCCCATTAGT  
GGGAAAAAGTTGGAGGATGAAGGAATTGAAAAAAAAAAAAAAAAAAGG  
TT

&gt;365.1

ACCAAGCACTGGGTAAAGGCACTTTTGTGGAGCATTAGACAGTAACCCCTCA  
AGGAGCTAGAGAACCGGATGGGAGACATGAGCGGTAATTAACCTCACTTGT  
TCCCCAGAGTTTCTATTTGTTTTGTTTTCTTTTCTGTGACTTATTTTCC  
TATTTTCTTCTCCATGTAATTTCACTATGGCCCACTAATATAAACA



Table 3

CCTGGAAATTACAAGGAAAAAAAAATTCTTCCTCTAATAACTTTCCAAATT  
TGTGGAATATTTATTTGTAATAGCAGTTATCAGTTATGCTTATATAGCAT  
TAAAAATTCTCCTCCTTTGACTACACACACAACCACAGTGTGGTTCTAAT  
CATGGAGATATCAGTAATTTTTAGTAACTGAATTTTGAGGACATTTCTCT  
GTTTAGCATGTATGCAAACCTGATATGTAATCCGGGGTTCCAAAG  
>366.1  
TGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTGCATCCTTCAACCCAATC  
AAGCTGACACTCAGTATTAACCATCACAAGGCGTGAGGACAGATAGCTGC  
ATCCGCAAAATAGAGAACCAAGAAATAGTCCCACACCAAAGTCAGGATCA  
AATGATTCCCTGGACAAGCCAC  
>366.2  
TGAACCCCCCTCCGTCAACACACACAAACGTTAATTTGAGATGGATTGCA  
AACATAAAAGCTAAAACCATTAACACTTCTTGAAGGTAACATAGAATATT  
TTGTAATGTTATGATAGGCAAAAGTCTCTT  
>367.1  
ACCGCGGTGGCGGCCGAGGTACATTGAGATTCAAGAGAAAAAGTCACAGCA  
GGTCTGAGCTCCTCCAGCAGGCCTTATGTAATGCTAAGATTTTTGGGGAA  
GATGAAGTTGAACTGATGAACTGGCTGAATGAAGTGCATGACAACTGAGC  
AAGCTCTCAGTCCAGGATTACAGCACTGAGGGGCTATGGAAGCAGCAGTC  
TGAACCTTCGGGTTCTGCAAGAGGACATCTTACTCAGGAAACAAAATGTAG  
ATCAGGCTTTACTAAATGGTTTGAAGTAACTTAAACAAACCACAGGTGAT  
GAAGTTTTTAATAATTCAAGATAAATTGGAAGCCATTAAAGCAAGGTACTG  
CCAGATACGAATTGAGCATACCACAAAAAGTTCTCATTTTGTGTCCTCC  
CATCCCATTCTCCTCACTAACCAAAGGCTAGGAATTATCT  
>368.1  
CAATGTGCCAGGCACCTTACAAGACACAAATATGCTCTTATAGGCTGGGG  
AAATAAGAAAATATGAATGAAGCAACCCAGGTCTTGAGCCAAAGAATTAC  
CTGGGGTCCGTTGAGTTCAAATCTGAAAATTTCTGTCTTTCAAGGTCAGC  
ATCGCCACAAAC  
>369.1  
ACGCGGGGGTTTTCCGGTTTGGGTGTGGCCGCATGGCGTGCTGGGGTGCA  
GTGGCCGAAGGGGGCGTTACTGTTGCGACTGGCATCCGCATCCGGCAGAT  
GTAGATGGAACCAAGCCAGAAGTTACGCGTCACCCCTTGCTCTACAGCCA  
AACATGCAGGACTCTAGTAACCCGCGAAATGATGGGATAGCGTTGCAAAT  
CCTTAAAGAGTCTTAACGGAGAAAGGAAAAATGTTACATTGTCAAAGTCC  
CAAAGCCTTTCAGCCTGAAGCCAGGAACAATTGTTCAAAGTTTCTTTGGA  
ACATCAAGGAAGGAAATCCAGATTTTACTTTAAGTGCAATGGGGAGTCAT  
TAAGGATTTTGTGTAGATACAGCAAAAAGACAACAATCTTCAAGCCACAA  
TGGCCCTCACCAGAACCAGCCATGTGGTCAGCCTGATCTCGGACTTCAC  
AGCCAGCAGAAGTGTGAGAATTAAATC  
>370.1  
GTGGCGGCCGAGGTACTTAAACCAAATAAAAAGTGACATTTGAATTTCT  
TTTAAAGGATTTCCGAGCTCACAGTCAGCTTGCGAGCCATTCTCCCGCG  
TACCAGCAGAAACCAGGACAGCCTCCTAAGCTGCTCATTTACTGGGCATC  
TACCCGGGAATCC  
>371.1  
ACGATTATTTTAAACAAGCCTACGTCCCTGACTAACCGAGTGGAAGGTGT  
GAGTGGCACTACAAATTCACAAAAGAACTGTAGCCTCAGATAATCAAAGG  
AGAGAAGGTCAGATGCAATCACTGATGCATGCTAGTAATTCTCAAACCTT  
CGTTTTTCAGAAACGATTGGATTTTCAGATAGATTTGCAGTAAGAGAATAA  
CAAGTCTTTATTTTTTTCATCCCAACTTCTTTCTTGACATTTTTCTTCT  
AGCTATATTTAATATCTGTTCTCCCCACACACTTGCTAATCTACATTTCA  
CAATCTTTTCCACTTCACTTTGTCTGCA  
>371.2  
AGAAATCTACCTGGACAGAATAGCATCTTTTTTTTTCCCCCTGACCCTTG  
GCATTTCTCTTCTCCAACCTCTGCCTGATCCTAGGATGGAC

**Table 3**

&gt;372.1

ACGCGGGGATGTCTCTTGTGCTGCTCTTTTCAGAAGACCTGGTGGGGCAA  
GTCCGTGGGCATCATGTTGACCGAGCTGGAGAAAGCCTTGAACCTATCA  
TCGACGTCTACCACAAGTACAAGAGATAGAAAGACCAGTCCTTGCTGAAA  
GACAAGTCTGAATGCTCCACTTTTTCAATTCTCTCTCCATTCTTCAGTAA  
GTCAACTTCAATGTGGATGGATGAAACCCAGACACATAGCAATTCAGGA  
AATTTGACTTTCCATTCTCTGCTGGATGACGTGAGTAAACCTGAATCTTT  
GGAGT

&gt;373.1

ACGCGGGGAGAAGGAATGGAAAGCCTGGAGAAAGAGGATGAAATGACGGA  
TGAAGCAGTTGGAGACTCTGCTGAGAAGCCTCCTTCTACTTTTGCCTCAC  
CTGAGACTGCTCCAGAAGTGGAGACCAGCAGAACTCCACCAGCCTGTGAA  
ACCACGAACCCCTTCAATCAAGAAAAGACCTTTGATCAGGAGAAGACTTCT  
CGTCTCATTTCTGGGGACACATTCAGGATTTCTCCAAAGCAGGTGAAGGT

&gt;374.1

GGGTGGCGGCCGAGGTACGCGCCAGTCACTAGCAGGTCTTGTGAATCTC  
CTCACGGAGGCACCTTGCAGAGTTAATGGGCAGATGGAAGGAGATGGCAA  
GGACCAATCTGGGGCCGAGCAGGAACAAAAGCAGCAACGCTAACGGAAAA  
GGGCCGCGCCGGGCTGGTGGGCCAGACAAACCAGACATGGTGTCTCCCCGC  
GTACTCCTTATCTTATTAACACAAAATTAATTGTAATAAGCCTCAGG  
CAGGTCTTCAGGAGGTATCCAGAAGAAGGCATTGTGATCATAGGAGCTG  
ATGGCTCCGCTGGGTTACTGCCCTGTAGACTTCCAGTGGGACAGGATA  
TGGAGGTGGAAGACAGTGACATGGATGATCCGGACC

&gt;375.1

CGGGTGGCGGCCGAGGTACCTCAGCTGTTGATCTGTGGAGCCTAGGAATC  
ATTTTACTGGAATGTTCTCAGGAATGAACTGAAACATACAGTCAGATC  
TCAGGAATGGAAGGCCAAACAGTTCTGCTATTATTGATCACATATTTGCCA  
GTAAAGCAGTGGTGAATGCCGCAATTCAGCCTATCACCTAAGAGACCTT  
ATCAAAAGCATGCTTCATGATGATCCAAGCAGAAGAATTCCTGCTGAAAT  
GGCATTGTGCAGCCCATTCTTTAGCATTCTTTTGGCCCTCATATTGAAG  
ATCTGGTCATGCTTCCCACTCCAGTGCTAAGACTGCTGAATGTGCTGGAT  
GATGATTATCTTGAGAAATGAAGAGGAATATGAAGATTGTTGTAGAAGATG  
TAAAGAGGGAGTGTCAAAAATATGGACCAGGGGTATCTCTACTTGGTCC  
AAAGGAAAATCCTGGCAGAG

&gt;376.1

CAGGTACAGGTCTCGAAAAAGCGGGTGGTGCAATGCTCCATGGGGATGA  
GGGGAGCACGCAGTGGAGCCAGCTCGGTGTGGGAGAGGTACCTCTAAGGT  
GTTCTTCTACCTAGCCTAGTTTTTTTCTACCAACCTAGTTCACCTAGTT  
TCCTGCCTAACCTCGTTAGATATCACTCTTCGCTGCTTCAAGAATACTAA  
AGCAACACTCCTGATATTAACCTACTACTCAGTTTTGTGTGGCAAAACAG  
AGATCACATCCCATTTGTCTTTGTGTCTCTGGCTGTTAGCACAAAGTTTA  
GCACTTAATTGATGCTCTACAATGTTAGTTGAATAGGTGAGTGACAGAAT  
TTGTTATTCTTAAACCATTACTGTTTGTAGTGAG

&gt;377.1

TGAGCTCACCGCGGTGGCGGCCGGACGGAGGAGAGGTGCTGTGCTGTGTA  
TGAAGAGGCAGTGAAGACTCTGCCAACAGAGGCCATGTGGAAGTGTTACA  
TCACCTTTTGCTTGGAAAGATTTACTAAGAAGTCAAATAGTGGGTTCTT  
AGAGGGAAGAGGTTGGAAAGAACCATGACTGTATTGAGGAAGGCACATGA  
ACTGAAGCTTCTGTCAGAATGCCAATACAAGCAGTTGAGTGTTCGTTGC  
TGTGTTATAACTTCTGAGGGAAGCTCTGGAAGTGGCAGTAGC

&gt;378.1

CGCCCGGGCAGGTACCAGGTGGTGAACCAACTGCTGAACGCACAGCCTA  
CCTCCTGTATTACGCCGAGTGGACCTGCTGTAACCCCTGTGTGCGCTGT  
GTGTGCGCCAGTGCCCGCTTTGTAGGACACCACCTTACACTCACTTCCC  
GCCTCTCTTTAGTGGCTCTTTAGAGAGAACTCTTTCTCCCTTTGCAAAA  
ATGGGGCTTAGAATTGAAACAGGAGTATCGCCTTTGTGGGTTTCGATGCA

Table 3

ACAAACACGAGCTTTCTTGTTGACTTCTAACTTTTCAAATCAAATCATT  
TGGTTGAAACAGACTGTTGCTTGATTTTAGAAAATACACAAAACCCATA  
TTTCTGAAATAATGCTGATTCTGAGATAAGAAAGTGGATTTGATCCCCA  
GTCTCATTGCTTAGTAGAATAAATCCTGCACCAGCAACAACACTTGTA  
TTTGTGAAAAATGAATTTAATTTTCCTTTAAAAAAGAAATTTT  
>379.1  
AGCCAGCCAATAAAATATAAACTCCATTTGTCTTAGTTATATAGAACTGT  
GTTTCCAGCTTAGAAAAAGTCAAACCAATGACTTGTAGAACAATCTACTC  
TCATTTTTTATTAGCCTCTAGAACATGGAAGCTTTAAAGTGAATTGGC  
TAAATAGGCAAGACCTTCTGAAAGTTAACATCTTAATGATTAAAAACAGT  
AAGTACGCACAACCGAAGCGTAGAGTCACACTTGCAACAAAAGGTTACAA  
TATTGTAATGGGCTCTGTCCGGTTCTGCTTGTCAGCTGGACCATCTATT  
TCATCCTCCTCCTCTGAGCTGTCATTTAATTGCTCATAACAGTAGAGATC  
AGTTGTCTCTGGTTGCAAATCTAACATATATTTATGCAATGTAGGGTGTT  
CTCCATGCATGATTACAGCTGGGTTTCTCTACGTGTTCTTGATGATCTGC  
AACAAGACATACCTCGACCGGGCCACCGCCCTTATATTATGGAATCTT  
TGCTTTTTGGCCAGAGGTCTTTGCTTTT  
>380.1  
GAGGTACGTTAGCTCATTTTCCCTTAAGCGGGTTGTGACGTCGTTGAAAT  
TGCAACGCTCAAACCTTCCAACACTTGGTATACACTTGTAACCCAGCTTTG  
TTAATGAGACACGCATCAAAATCAGATGAACAATTGACGGCTGTTTTGCA  
GTCAGCAGTTGGGTTAGGACAGTTGTAGCACTGCAGGCTATGTCCTGAAT  
G  
>381.1  
CTCACCGCGGTGGCGGCCGAGGTACACCATGTGAAGACTGGACTTAAACA  
GCTACACCACCAGATGCCGAGAGAGAGGCTGGAACATAGCCTTCCCTTTG  
GAGGTAGCCTGGCCCGGTGGGCACTGTGATCTCAGACTTCCAGCCTTCAG  
AACTGTGAGACAATATTTTATTGTTAAGCCACTTATTTTTTGGT  
>382.1  
ACTACATGAGTAATTGCATAAATGGACGATGTCTTTCCTCTACTTTTAAT  
TTCCAATGACT  
>383.1  
CACGGCTCTCCATTCTTCTTCTTGCTTTACAGGTTCCCAGGTCAAGAGC  
TTCACCCATAATTAAGAGCTTCTGAGGATGATCGATAAATAAACACACCT  
CCTCTTAACCATCCTTGGGCT  
>384.1  
GACTGCAGGAGATGTGGGCCGTGCCAAAGAGATGGATGAGACTGTTGCTG  
AGTTCATCAAGAGGACCATCTTGAAAATCCCCATGAATGAACTGACAACA  
ATCCTGAAGGCCTGGGATTTTTGTCTGAAAATCAACTGCAGACTGTAA  
TTTCCGACAGAGAAAGGAATCTGTAGTTCAGCACTTGATCCATCTGTGTG  
AGGAAAAGCGTGCAAGTATCAGTGATGCTGCCCTGTTAGACATCATTAT  
ATGCAATTTTCATCAGCACCAGAAAGTTTGGGATGTTTTTCAGATGAGTAA  
AGGACCAGGTGAAGATGTTGACCTTTTTGATATGAAACAATTTAAAAATT  
CGTTCAAGAAAATTCTTCAGAGAGCATTAAAAAATGTGACAGTCAGCTTC  
AGAGAAACTGAGGAGAAATGC  
>385.1  
GAGGTACTCCGTCTCAGAGGAGGGATGCAAATCTTCGTGAAGACACTCAC  
TGGCAAGACCATCACCTTGAGGTCGAGCCCAGTGACACTATCGAGAACG  
TCAAAGCAAAGATCCAAGACAAGGAAGGCATTCTCCTGACCAGCAGAGG  
TTGATCTTTGCCGAAAGCAGCTGGAAGATGGGCGCACCTGTCTGACTA  
CAACATCCAGAAAGAGTCTACCCTGCACCTGGTGCTCCGTCTCAGAGGTG  
GGATGCAGATCTTTGTGAAGACCCTGACTGGTAAGA  
>386.1  
TCGCCCCGGGCAGGTAATCCCTGATAAAGGGGAATTTCCATGCCGTCTACA  
GGGATGACCTGAAGAAATTGCTAGAGACCGAGTGCTCCTCAGTATATCAGG  
AAAAAGGGTGACAGACGTCTGGTTCAAAGAGTTGGATATCAACACTGATGG

Table 3

TGCAGTTAACTTCAGGAGTCCTCATTCTGGTGATAAAGATGGGCCGTGGC  
AGCCCCACAAAAAGCCATGAAGAAAGCCACAAAGAGTAGCTGAGTTACT  
GGGCCCAGAGGCTGGGCCCTGGACATGTACTCTCAGAATGTTTGTCTATA  
TGCTTCTTGCAATGCATATTTTTTAATCTCAAACGTTTCAATAAAACCAT  
TTTTCAGATATAAAGAGAATTACTTCAAAT  
>386.2  
GAGTAATTCAGAAAAAAGCTCAAGAATTTAAGTTAAAAAGTGGTTTGGACT  
TGGGAACAGGACTTTTATACCTCTTTTACTGTAACAAGTACCTCGGCCCG  
CTCTAGAACTAGTG  
>389.1  
GATGCTGTTCCCCATTTCTCCACTAAAACGCCTGCTTTTCTTAACTCCAC  
ACCGAACCAACCTGAAATATTTTGGCCCAGAATGCCAACAAAGATTGAAG  
AAAAGATGCTTTACAAAAATAACAATATAAAGCAAATTATATTATCCCT  
TTTATCTCCATTCTTACATTAATAAAAAAAAAA  
>391.1  
CCGAGGTACGCGGGATGGGATTTCTGACCATTGCCCCTGCCTCTTGCAAA  
ATAGGTCTAATGGCAGGATGGTGTCTATAATTAAGGCTACCAAGACTGCCC  
ATTGTTCCAGGCTGGGCAGTTCATAATGGGGGCAGACAATAGTGCAAAAA  
AATTTTACATTTTATCTTTAGAGTGTGAGGTCAAATTGATTTCCATGGT  
TGAGGATGTAGCCAAGTGTGGAATCAGGTGGAATAGGTGGAGAGTTGCCC  
ATAGTGGTTTGGAAAAGAGAAGAGGACTTTGAAAAGTGGAGGGCTCATT  
GGTGACCCCAAATTTTACCTGGGGCATCCCCCTTTAGGGCCCCAACTTAG  
TCTGTGACACATCTCTGACCTTAGATGGGTGCTGGCACCCTTTGGAATG  
GTTCCCTCCATCACTGAGGACCTGACTTAAAGTTTTCTATCTCACTTAA  
AACAAACCTTTAACGCTCTCAACTTAGGCAATAATAAATTCCTTTTCATG  
AATTCCTTCACCACCATGCACCACACAGACCACATGCCCG  
>392.1  
AGCGCGGGGAGAGGGCCGGTTTGCAGTATTGGGCGCTCTTCCGCTTTCCTC  
GCTCACTTGACTCGCTGCGCTCGGGTCTTTCGGCCTGCCGGCCGAG  
>392.2  
ATTCAGCTTCACTCAAAAGGGCGGTAATTACCGGTTTATTCCACCAGGAA  
TCAAGG  
>392.3  
AACCCGTTAAAAAAGGCCCGCGTTGCTTGGCGGTTTTTTCCATAAGGGCT  
CC  
>393.1  
ACAGGACACAGGCACTCCTTTGTCTGGTAGAGAGGAGGGGAAATGGA  
GCTATTCCAGGATACAAGGGATGGCACTGAGGGATGCATAAGTCCCCTGC  
CTCCCTTGTCTCAACATGTTCTCCTCTGCCAGCCAGTCAGCTTGGGGAG  
CTAGGTATCAGAAACCTGAAGGATCCAGCCCGCTTTGTCCTACTAGTGTC  
TATAAGTCTCTGTCCTGAGATCCTGGGGCTCCTCCTATTTCTAGAAGGGA  
TGAGGTGCCATCAAAAATAACTTGGCTGGTGTAAACAGTTTAGAGAAGGAA  
GTCACACCTGTAGCCTGGCTGGCAGGCAGGTGGACATGAGGCTGAGAAGG  
GAAGCCAGATGTCAGAACATACTAGGCTAGCATGCCTGCT  
>394.1  
TGGCGCGGAGGTACCAGGCTGGCGACAGGTGCTACCAGGAGTGGGCTGA  
GGGGAGAAAAACTATCTCCACTCTTTTGGCCCAGGCAATGTCAACGACT  
TCCACATTCCCTGGCCCACTGGCTGAGCAACCCAGGTTTCGGCTCTGTAT  
AAGGACCCTCCCCTCCCAACCCCAACCCAGAGTGCAGTGCAAATCAACCA  
ACAATTTACTGGTGGAATGGCAATCAAAGGAAACAGTTAAACACCAAACA  
ATTTCTTAAAGCCAAAAAATATTTTTCATGGAGTTGAACATTTTTCGAGT  
GTGTTTTTTTCAAGTGTAAAAGCAGTGACATTTTGTTCAAACAGAAGCAG  
CATCTAGGAATTCTGGCACTTGGGTTCTAGGGGGTTACAGGTATGCATCA  
TGGATTCTTCTCCCTCGTATTTAAAAAGA  
>395.1  
ATCTTAATTTATTTAAAGCCATAGATTTCAGTTTAGCTTTAACCTAGACAG

Table 3

AAAGTGAAAAGCATTTTACAAGTAGAAGAGGCAATGAGAAATAAGGCAAC  
AGATAATACGTCAAAGCTGGAACAAGGGCAGAATCAGAACGTGTCTGGCT  
ATCAGCTTTGTTTTGACTACTAAGGCCAACCTTTTTATTCTCTGGATG  
GTCTGCAGACCAAGTTCAGAATTTAGGCAAAGGATTTCCAAATGGATCC  
CTATACATTTTCAGAAGATTCAGGTTGAGGAAGAAGCCACAGAGGGCTTG  
TGATGAACCCAAAGGAATCTTTAAAGAAA

>396.1

TGGCGGCCGAGTACCGCGGGAGCTTCTCCTTGCCAGTTTTTCCCAGCAGG  
ACCCCTCTTCTGTTTTGAAAGATGGTCGGCTGCTTTTGGTAGGCACGCTC  
AGTCTGAATGTCCGCCATCTTCC

>397.1

ACCCCTCTTCTGTTTTGAAAGATGGTCGGCTGCTTTTGGTAGGCACGCTC  
AGTCTGAATGTCCGCCATGTGTCC

>398.1

CTCACCGGGCGGCGGCCGAGGTACAAAATTTAGAGGTTTCCCCTTTATCA  
ACAAGAGACCCAGGTGCCAGCATGTTACTACCAGATCCAGTTCTTCTTAG  
GACAGTGTGGCTCAAAGGGATGAGACCTTCCAGACACTGGTATCTGAGCA  
TCTGGGCCTGCCCTGAGTTGTCAAGAAATTTCTTATCTCTGAAGGAGTC  
CAGACAGGAATGCTTCCACTGCTGGGTGGGTGCTCGCCCCTCTTGCTCCT  
TAAGCGCCCGGCTCACCCCTTGCTAGCACAGGGTGTCTTACACAGTTTA  
TGGGACTTTTCTGTGAACCTACCTGAGGGCAAGAACCATGTCCCACTCCCT  
GCTTGCTCCTCAAATATTTTATAGGAAAGCAGTCCACAGTCTCACACAGA  
GGAAACATGAAGTTTAAGTTCTAGCCCTATG

>399.1

GCCGAGTACTCGGGGAGAGAGGAAAAGAACACAGATCTCGCATGGTTTCAG  
ATTTTTCTTTTAGGTCCAGGAGTAAGATATATCATACGAAAATGAAAAT  
TATAATTCCTTGGATTCTGGGAGCCACATTGTCAGCCCCACTTATCC  
CACAGCGTCTCATGTCTGCCAGCAATAGCAATGAGTTACTTCTTAATCTT  
AATAATGGTCAACTTTTGCCACTACAACCTTCAGGGCCCACTTAATTCATG  
GATTCCACCTTTCTCTGGAATTTTACAACAGCAGCAGCAGGCTCAAATTC  
CAGGACTCTCCAGTTCTCTTTATCAGCTCTAGACCAGTTTGCTGGACTG  
CTCCCAAATCAGATACCCTTAACAGGAGAGGCCAGTTTTGCCCAAAGGAG  
C

>400.1

GTACAGACAGTGCTTGATGTTTATAAAAAATACAATGCCCTGGTAATGTC  
TGCATTCAACAATGACGCTGGCTTTGTGGCTGCTCTTGATAAGGCTTGTG  
GTCGCTTCATAAACAACAACGCGGTTACCAAGATGGCCCAATCATCCAGT  
AAATCCCCTGAGTTGCTGGCTCGATACTGTGACTCCTTGTTGAAGAAAAG  
TTCCAAGAACCCAGAGGAGGCAGAACTAGAAGACACACTCAATCAAGTGA  
TGGTTGTCTTCAAGTACCTGCCCAGGCGGTGAGCGGCCGCCCGGGCAGG  
TACGCGGGGGCTAACCAGGCCAGTGACAGAAATGGATTGAAATACCAGT  
GTGTGAAGCTGAATGATGGTCACTTCATGCCTGTCTGGGATTGGCACC  
TATGCGCCTGCAGAGGTTCCCTAAAAGTAAAGCTCTAGAGGCCGTCAAATT  
GGCAATAG

>401.1

GCGGCCCGTTGACCTTGTATGTCACGAGCAATTAGGAGAGTCAGAGGATG  
AAATAGATGAACCCGACCATGCAGTTAATCACCAACATCACTACTAGCC  
AGACGGGATGAACCACAGCGTCACACAATACAGTGTTCTGTTGTAAGTG  
TAACAACACACTGCAGCTGGTAGTAGAAGCCTCACGGGATACTCTGCGAC  
AACTACAGCAGCTGTTTATGGACTCACTAGGATTTGTGTGTCGGTGGTGT  
GCAACTGCAAACAGTAACCTGCTATGGC

>401.2

TATTGGAAAACCTTACTTTTTTCAATGAGCATTTTGCATCAAGGGGTAA  
CAGGGACATTAGGCTTTTTT

>402.1

ACACATATCCTCTGTGGGAAAAACTGCTCTCAGAGTGTGCACTCTCCCCA

Table 3

CAAGCCAGCGCTCAAACCTGGAAAAAGTATCTCAATGTCCTGAATGTGGGA  
AAACCTTTAGCCGAAGTTCTTATCTTGTTCGGCATCAAAGAATCCACACA  
GGCGAGAAGCCTCACAAGTGCAGTGAGTGCGGGAAGGGCTTTAGTGAGCG  
CTCCAACCTCACTGCCCACCTACGAACTCACACAGGGGAGAGGCCCTATC  
AGTGTGGGCAATGTGGGAAAAGCTTCAACCAGAGTTCCAGCCTCATTGTC  
CACCAGAGGACCCATACCGGGGAAAAGCCTTACCAGTGCATTGTCTGTGG  
AAAGAGATTCAACAACAGTTCACAGTTTCACTGCTCACCGGCG  
>403.1  
TTGGAGCTCCACGCGGTGGCGGCCGAGGTACCAAATTAAGTATTAATG  
AGGATTGAACTGGGGCAAACAGGTTATTGTGAAAACAGTCAATATGTAAG  
CTCCTTCAAGGGAAATCAACTACTGTTCTCAAGATTAGAAGATGTCCAC  
ACTCTTTGCATTACCTCCCTAAAGGAGGAAACACCCATTAATTTTCCCTT  
ATGGAATCAATATGGAGTGGAATATGAAATGAGGAGATGTTTTAGAAAG  
CAGGACATATCTACCTACCATTACTGGAATTAATGTATCCTCTGGGCC  
CACTCCATTGATTCCGATCTGAGGTGAGGAGGACTAAAAGCAGCAGCAGG  
TTACAGAAAGACTGAATAAGATGAAAGTATGCTACGTATGTCTAGCTGGG  
GAAGGGGGGATCTGGAAAAAA  
>404.1  
CCGCCCCGGGCAGGTACGGACGCCAGGGATCCGCGCCGAAGCTAGCACGC  
AGCCTACCCAACAGTCTACACAGCCGACCAAAGCCCCCGGTACCCAGAG  
GAGTCGCTGGTGAGTGGGAGCTCAACCCTGTTCACTGCTCTGCTCATCAA  
GTGTCTGGAGAAGGAGGTTGCGGCATTGTGCAGATACACACCCCGCAGGA  
ACATCCCTCCTTATTTTGTGGCTTTGTTGCCACAGGAAGAAGAGTTGGAT  
GACCAGAAA  
>405.1  
GCGGTGGCGGCCGAGGTACGCGGGGGGCGGCGGCGGAGAGAGCTGGCTCA  
GGCGTCCGCTAGGCTCGGACGACCTGCTGAGCCTCCCAAACCGCTTCCA  
TAAGGCTTTGCCCTTTCCAACCTTCAGCTACAGTGTTAGCTAAGTTTGAAA  
GAAGGAAAAAAGAAAAATCCCTGGGCCCTTTTCTTTTGTCTTTGCCAAA  
GTCGTCTGTTGTAGTCTTTTTGCCCAAGGCTGTTGTGTTTTAGAGGTGCT  
ATCTCCAGTTCCTTGCACTCCTGTTAACAAGCACCTCAGCGAGAGCAGCA  
GCAGCGATAGCAGCCGAGAGAGCCAGCGGGGTCGCTAGTGTCATGAC  
CAGGGCGGGAGATCACAACCGCCAGAGAGGATGCTGTGGATCCTTGGCCG  
ACTACCTGACCTCTGCAAAATTCCTTCTCTACCTTGGTCATTCTCTCTCT  
ACTTGGGGAGATCGGATGTGGCACTTTGCGGTGTCT  
>406.1  
CGCGGTGGCGGCCGAGGTACAGTTTACAGTGCTTGATGATAATAAATGGT  
TATTTTACTGGTTCATGTATTTACTATATCATACTTTTTTTCATTAGAGT  
GTGCTCCTTCTACTTATGTAAAAAAAAGTTACCTCAGGGAGGTCCTTCC  
TGAGGTCTTCCAGCACACGGCATTGTTATCATAGAAAATGACAGCTCCAT  
GTGTGTTACTGGCCATTACCACCTTCCAGTGGAAGGATGTGGAGGTGGA  
AAGCATACTGATGATTTTGTCCCGTGGAGGCCTAAGCTAATGTGTGTGT  
TTGTGTCTTAGC  
>407.1  
GCGGCCGGTGTGCTCATCGTAGCCTCGGGTCGGGGGATGCGTCTCCGCTT  
TAGCGCCAAGATAGAACTTCCTCAGACCACCGCCGCCGCCCGCGT  
>408.1  
GTACCTCCACTGGCTGAAGTCTCTACATAGCTCTCAGGAACCTTCGGAAA  
GGCATCCAACCTCTTTACCAAACCTAAAGTTTTTTTCCGATTCAGTCGCC  
TCATCTTCCAGGAAAACCTTCTCTTCTTTCATATAGTCATGCTTGTGTTA  
TGGTCCCAGCCTACCGCCATGTTTTACAGAAGCCCGGGTCGCCGGGGCTC  
CCGCGTACCTGCCCGGGGGCGGCTCGAGGCAGGTAATGACACATT  
ACCTCCCACTCTCCCGACTAGGTGGTCAACAGGGCCACAGGGTTGCTT  
TCTGTCTTTGGTGGGGCAGGGGAGTTGACAGGGATGAGGGTCCAAGGAAT  
TAGCATGAATGACAAGATAACAAGGGAAAGAGTTAACCTGTCACATAGT  
AGGTTAACTTTTTTCAGGGTTT

Table 3

&gt;409.1

TTTTTTATTTTGCTTTTTTTTCGCGGGAGTTAAATAAAATAAGCATGTCT  
TCATCCTTTATTCTAAACATTTACTTATGACAAATGTAACGACTGACAG  
AAATTTGAAAAATACCAGACACTTCTTAAATGATTTCCCTTGGTTCAAAA  
TTTACCCCTTCTTGTTTTCTCTTGCTTTTCAGGTAATTAACCTCTTCTCTT  
TTTAGTTTGAACATATGCAGTGCAAGATTCTCTGTAGTCTTTCCAAGTGG  
ACGGGTATTAAAAAAAACACTTTATATTATGCCAGGTGAGGTGTCAGAA  
CCCTGGCTTCGGAAAGTGGTTGGCTCACCCCGCG

&gt;410.1

GGGCAGGTACTGTGCAGTAGTAACCATAATTCTAAATGAGGATTATGGAT  
TTTTCTGGAAGATTCTTTTTCTGTGGAACATGATGAGAAATGTTTAGG  
AGAGGGGACATAGCCATTTTTGTATGAAGACCAATTC

&gt;410.2

CACACTCACACACGCATGCACACATGCACGCACAACTTCACTCTATATTT  
ATTCT

&gt;411.1

CCTTGAGCAGATGCTGTATTATGGGGATAAGCCACACACTTTCTGAACTG  
GCCCCGGTCAGGGGGGACATAACCATTTCTGTGCCACCCCATCAGTACCC  
ACCTATTGTGAGCGAAGGCTCCTCCCCTGCTTGAGTAATGGCCACAGATC  
TTGGCTCGGCACTCCTAAGCTGCATGATGAATTCCTGGGACAACAAGACT  
GGCTCGTGGTTCATTCTCCAGATCCTTGGGTGGCTTCTGGGTGCACTA  
GGAGATCTGAAATGCTCTCAGGCCACCAGGAAAGTACTGGAAGTAAAGTC  
TGACTCTAAAGAAGATGAAAATCTAGTAATTAATGAAGTCATAAATTCTC  
CCAAAGGGAAAAAACGCAAGGTAGAACATCAGACAGCTTGTGCTTGTAGT  
TCCTAACACGCAAGGATCTGAAAAGTGCCTCAGAAGACTACTAGAAGA  
GACGAAACGAAACCTGTGCCTCGAGCG

&gt;412.1

GCCGGCAGGTACTAGAGTTTTCAAGTATGTTCTAAGCACAGAAGTTTCTA  
AATGGGGCCAAAATTCAGACTTGAGTATGTTCTTTG

&gt;412.2

GTGAATTTTGGCACAAAGGAGTGACAACTTATAGTTAAAAGCTGAATAA  
CTTCAGTGTGGTATAAAACGTGGTTTTTAGGCTATGTTGTGATTGCTGA  
AAAGAATTCTAGTTTACCTCAAATCCTTCTCTTTCCCAAATTAAGTGC  
CTGGCCAGCTGTCATAAATTACATATTCCTTTTGGTTTTTTAA

&gt;413.1

GGTACCTAGTCTATATGAGTTTGATGCTTACAGTCAAGGCTATTAGCAA  
TATTCAGGAAAAGTAAAGCCTAAAGAAGAAAAGAGGGAATGAATAGTTTG  
TCTAGAGATAATAAAAGGAAGGTGAATTTTTAAAAGACAAAAATAAGGC  
TAGAAAAGACTGAGTGGAGAAAGCCTACAGAATTTAGAAAAGCTAAAGAA  
ATTGGAATTAGATTGAATATAGATAGAAATGGGAGGACAATGCAGCCAA  
TGAAAGACTGTGGGGACTAATAAAGGGAGAGCCCTGTGGTTTGGAAAGTG  
TCCCTTAATCAGCCTGCAGTGCTGCAAAACAGAAACCCAGAGAGGGTGCT  
TGAGAATATACAAGAACCCTTGCGGTGGTGACTGAACAAAACGCAGCCAG  
GGATTTTCATCAGAAGCATAATCCATTTCATGGCACCAGTCTGGCAGTGCTG  
GGGAGCTGGTAAGATACACAC

&gt;414.1

GGCGGCAGGTACGCGGGATCCAAGATGAAGTGCAGAGAAAATAAAGAATC  
CAAAGTCATAGTCATGAGGACAGAAT

&gt;415.1

AAAACCAAGACGAAGCCACTACAGCCCCCGCGTACCTGCCCGGGCGGCCA  
AAGGCCAACAAAGGCAGTGGG

&gt;416.1

TCACCGCGGTGGCGGCCGAGGTACGCGGGGCTGCGGAGGACCGTGGGCAG  
CCAGGGTCGGTGAAGGATCCCAAAATGGCTGGGCGAAAACCTTGCTCTAAA  
AACCATTGACTGGGTAGCTTTTGCAGAGATCATACCCAGAACCAAAAGG  
CCATTGCTAGTTCCTGAAATCCTGGAATGAGACCCTCACCTCCAGGTTG

Table 3

GCTGCTTTACCTGAGAATCCACCAGCTATCGACTGGGCTTACTACAAGGC  
CAATGTGGCCAAGGCTGGCTTGGTGGATGACTTTGAGAAGAAGTTTAATG  
CGCTGAAGGTTCCCGTGCCAGAGGATAAATATACTGCCAGGTGGATGCC  
GAAGAAAAAGAAGATGTGAAATCTTGCTGAGTGGGTGTCTCTCTCAA  
GGCCAGGATTGTAGAATATGAGAAAGAGATGGAGAAGATGAAGAACTTAA  
TTCCATTTGATCAGATGA  
>418.1  
TGGCGGCCGAGGTACGCGGGATTTTGAATGAATTCTCAACAAAATGTGCT  
AGCCACTGGGGACGCAAAACAAGTAAGATCCCTGTTGCAAGAAATTCATT  
TTATAGTGAGGGAGGTTGGCATGGAGACTAAAATTCTCAGGAAAATGAGA  
TCCGTGTTAGATAGAATCCTGATGTGAAATGGGAGGACTCAGGAAGGAGG  
ATCGTCTTTACCTGAGGATTTCTAGCCAGAGGTCCAGATGCCTGGGCTG  
AGAACCCAGCGATAAGGGGGCGTTCCCAAAGCAGACACAGGGATAAGAAC  
AGAGGAGGCAGCAGCATTGCACAGCCCCAGGCACAGTGGCAGTTAGGATG  
GCTGGAGAGTAGGATAGTTCTATGGGTTGCCCAAAAAATGTGATGTGCTT  
CATGTTTTCTCTGACTCATGGATCTGGTAGAGACCATAGACATGATATAG  
ACTAACTTGGCCATTTTTACAAGAGGAAACCATGCTTATGACTTACCTT  
AAAGTTTTTTGTTCTGTTTTGAAAGAAACCATGTGCTTCATGAAACCTAC  
AGTTGA  
>419.1  
CGCGGTGGCGGCCGAGGTACAGTATATTGACCTTAAAAATCAGTAAAGCA  
GTCATGGAAATAACAGGTCGTGTATTATTCATGGGCACAACTGACTCAT  
GGCTGGGGAAGAAGCAGCCACCTTAGACCAGATGGACAAGCCAGATACTG  
CAGAGAAGTTTCTGGGCTTTT  
>419.2  
GGGAGACTCTAGATTCAATTCTGTAAAGTTATGATGCAGTTTTCTCCTTC  
CTCTCCTCTCACCTCCTCTGAGCACAGCTTTCAACAAAAACTTTGCATAC  
CCCGCGTACCTGCCCGGGCGCGCTCGAGGTACTTCTCTGAGCATTGGC  
CTCTGGCTGGGATTATGCTTCAACAGTCTTGAAATGAGGTCCCTGGCTCC  
CTCTGTTACAAAGTCAGGGAATGTGAATTCAACCCGTGATATTCTTTTGT  
AGGTCTCTTGGTATGTGTTTGCTCAAAGGAGGCTTCCCAACTAAAAAT  
TCATAGCAAAGAACTCCAAGGCTCCAGAGATCCACCTTCTCATCATGCAT  
GCGACCTTCAATCATTTCAGGGGGCA  
>420.1  
CGAGGTACGCGGTGGTCCGGCGCCATTTTGTCTCGGCAGCGGTGGCCGTAG  
CTCCATCGCATTTTATGTTTCTGGCGAGAAGGGAAACGGAGTTTTTCATCAG  
GTAGATTGGTTTTGT  
>421.1  
GCCGCCTGCCCTGAAAGACCTCCTGCTGGAAGACCTCCAGGATGGAGAAG  
TGAGGCTGGGTGGCTCCCTGCGAGGGGCATTAGCAACAATGAGAGAATT  
AAAAACTTCTTCAAGATCAGTTTCAAAAATGGATCCCAAAGTCAGACCCA  
CTCGCTACAAGCCAATGACACTTTCAACAAACAGCAGTGGCTTAAGTGT  
TTCGTCAAGCCAAAGAAACAGTTTTGTGTGCTGCCGGGCAAGCTGGGGTG  
CTTGACTCCGAGGGATCGTTCCTAAATCCCACCACCGGGAGCAGAGAGCT  
ACAGGGAGAAACAAAACCTTGAGCAGATGGACCAATCGGACAGTGAGTCAG  
ACTGTAGTATGGACACGAGTGAGGTGAGCCTCGACTGTGAGCGCATGGAA  
CAGACAGACTCTTCTGTGGAACAGCAGGCACGGTGAAAGTAACGTCTG  
ACAGAAGCATGTGCACTTCGGGAAGCAGGCCTGCATCTTACCTGTACC  
>422.1  
ACGCGGGAAGTGGGGAATTCTGGCCCTACGTGCATTCACAGGCAATGATG  
GGTTTGTGTGTATGGTGTGATGAGATCCTCTACCTCATAACAAAAGGACA  
GTGGGTAGACTAAGGCAGTAGCTCAAAGGGCTTTGCAAAATTTAATATAT  
TAAACAAGAGGCATCTGCTAGAAAACATTCTATTGTATACATACTGAAA  
ACCCTATAAGGTCCTGGATAATTTTGTGTTGATTATTCATTGAAGAAACA  
TTTATTTTCCAATTGTGTGAAGTTTTTGACTGTTAATAAAAGAATCTGTC  
AACCATCAAAAAAAAAAAAAAAAAAAAAAAGT



Table 3

>423.1  
ATTAGACAGGGGGAAGTAAAATTATCTTTTTGCAGATGATATGACTTATA  
TGTA

>424.1  
TGGCGGCCGAGGTACTGCCGTAGCCGCTCCTCCCGCAGCTGTGCCGCCTC  
CTTGTCCTCCTCCTCATTGTCACTGCCAAACAGGTCAATGTCATCATCCT  
CGTCATCCTCTGCTGGTGTGGCTGGCTTCCAAGCTGGTGCCCGTGGGCTA  
CGGTATCCGGAAGCTACAGATTCACTGTGTGGTGGAGGACGACAAGGTGG  
GGACAGACTTGCTGGAGGAGGAGATCACCAAGTTTGAGGAGCACGTGCAG  
AGTGTGATATCGCAGCTTCAACAAGATCTGAAGCCTGAGTGTGGGT

>425.1  
GGTGGCGGCCGAGGTACTAAGTGGTTTAAGGATGGAAAAGAGCTAACAAG  
TGACAACAAATACAAAATAAGCTTCTTCAACAAAGTATCCGGCCTTAAGA  
TCATCAATGTAGCGCCGAGTGACAGTGGGGTATACAGTTTTGAGGTGCAG  
AACCCTGTTGGCAAAGACAGCTGCACAGCTTCATTGCAGGTTTCAGGTTG  
GTTGATTTCTTGGGCTTTTCTTCATCATTATAATAATGTAGTTCCTGAT  
TTTCATAAATGTATATGGGTTGTTACATCTTCTATAGGATAACATGAGTC  
CGACATCTTCTGAATCAGCAAATTCAGAGGCAATACCATCTCAAGAAGCC  
ACCATTGAGACCACAGCCATTAGCTCATCCATGGTCATCAAGAACTGCCA  
GAGGAGCCATCAAGGCGTCTATTCTCTTAAATGAGAGGCAGGACTGGCT  
AGGGTGATGCCTAAAGATGATTCCAGGCTTGACATGCTGGTATTCTTAC  
ATATC

>426.1  
TGGCGGCCGCGCCCGGGCAGGTACTGAATGTGGGAAAGCCTTTTGCCAGAA  
ACCACACCTGACCAACCATCAGCGAACACATACAGGAGAAAAACCTATG  
AATGTAAGCAATGTGGAAAAACATTCTGTGTGAAGTCAAACCTCACTGAA  
CATCAGAGAACACACACAGGGGAGAAAGCCCTATGAATGTAATGCATGTGG  
GAAATCCTTCTGCCACAGATCAGCCCTCACTGTGCATCAGAGAAGACACA  
CAGGGGAGAAACCTTTGGATGTAATGAATGTGGGAAACCTTCCGTGAG  
AAGTCGGCCCTAATTGTTCCAGAGAACTCATATAAGACAGAAACCTTA  
TGGATGTAATCAATGTGGAAATCATTCTGTGTGAAGTCAAACCTCATTG  
CACATCATAGAACACACACAGGGGAGAAACCTATGAATGTAATGGTTGT  
GAAATCATTCTATGTTAAGTCAAACTAACT

>427.1  
TGGCGGCCGAGGTACCTTACTTAGCAGAGCACTTTGCAAACATATTACTT  
ATTAGCAGAGCTCTTTGTAGACCTTCCACATCTGGCTGTCAGATCTTAAG  
GTTGTGAATTTAGGCTCCAGTTATATTCACTGGAGAGCATAATCCCACAC  
GGGTTATTTATAAATACAGAGCCTCTGATTGGACGGTCTCCTGCCAAGAA  
CTAGTAATACCTTGTGTTTAAATCTTCACAAGGTAAACTTAAAAAGCC  
AACCAAACAAATTGCTCTCCATTCTACTTTTAATTGGGCCAAACAGCATA  
TGCTACAGTAGTAACATGTTTTTCGGAGAGTGTAATAAACTCTGTTTACA  
TTTGCTCCTCCGTGGGTTGATCGAAAATGTATAAACTGACTGCTTCTC  
GCCAGCCTCAGACAAGAAGAGTGAGCTGCTGGTACCTGCCCGGGC

>428.1  
GGCCAAATGCAGAAACGTCCACATGCCACACAGGAGCAAGCTTCAAAT  
GTTCAAGCTTGCGGGGCA

>429.1  
TGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTGTGATCTCAACTGC  
TTTTAGCAAGTTGTGAATATACTTGGGCTTTCTGTCTTCCCCAAAAGCA  
ATTTGGGATTATTTCTCCTTTTTTTCTGCATTTTCATCATAAATACTG  
TCATATTCATACACAGTAGCATCTTCTGCAAGGGCCTTCTGGATTTCAG  
TTTGGTCTGTTTCATGGCCTGCTTCTTAGCAGCTTCCCTCTGAAGGCTT  
CACTCAGAGAGTCTCATCATCATCAGAATCATTCCCAAACACTGAT  
GGTTTTTGCAAACAGGGTGCAACTGCTGTGTTTTCTTTGGCAAATAAG  
CCCATACT

>430.1

Table 3

GGCGGCCGAGGTACAGACAAAACCTACAGACTTAGTCTGGTGGACTGGACT  
AATTACTTGAAGGATTTAGATAGAGTATTTGCACTGCTGAAGAGTCACTA  
TGAGCAAAATAAAACAAATAAGACTCAAACCTGCTCAAAGTGACGGGTTCT  
TGGTTGTCTCTGCTGAGCACGCTGTGTCAATGGAGATGGCCTCTGCTGAC  
CCAGATGAAGACCCAAGGCATAAGGTTGGGAAAACACCTCATTTGACCTT  
GCCAGCTGACCTTCAAACCCTGCATTTGAACCGACCAACATTAAGTCCAG  
AGAGTAACTTGAATGGAATAACGACATTCCAGAAGTTAATCATTTGAAT  
TCTGAACACTGGAGAAAAACCGAAAAATGGACGGGCATGAAGAGACTAA  
TCATCTGGAAACCGATTTCAAGTGGCGATGGCATGACAGAGCTAGAGCTCG  
GGCCCAGCCCCAGGCTGCAGCCCATTTCGAGGCACCCGAAAGAACTTCCC  
CAGTATGGTGGTCTCGAAAGGACATTTTTGAAGATCAACTATATCTTCC  
TGTGCATTCCGATGGAATTTCAAGTTTATCAGATGT

&gt;431.1

GCGGCGAGACCAACAACAGCCCTCCAACAATGATGACCAGTGGAAAAAC  
AATGGAGTCACCAAAACCTGGGACAGGCTCATGCTCCAGGACAATTGCTG  
TGGCGTAAATGGTCCATCAGACTGGCAAAATACACATCTGCCTTCCGGA  
CTGAGAATAATGATGCTGACTATCCCTGGCCTCGTCAATGCTGTGTTATG  
AACAACTTTCGAGCGGCCGCCGCGGCGAGGACGCGGGAGTTCAAGAAGCTG  
GTGGTCAAGGAGGAGGAGGTGGAGGTGGCAGTGGAGGAATTGCAGAAGCT  
GGAAGTGGTCATATGAACTACATTCAAGTAACACCTCAGGAAAAAAAAGC  
TATAGAAAGGTTAAAGGCATTAGGATTTCTGAAGGACTTGTGATACAAG  
CGTATTTTGTGTGAGAAGAATGAGAATTTGGCTGCCAATTTTCTTCTA  
CAGCAGAACCTTTGATGAAGATTGAAAGGACTTTTTTATATCTCACACTT  
CACACCAGTGCATTACACTAACTTGTTCAGTGGATTGTCTGGGATGACTT  
GGGCTCATATCCACAATACTTG

&gt;432.1

GGCGGCCGAGGTACCACTGCTTCCCGGGACTCTGCGTTGTTACCACTGCT  
TCCCGGGACTCTGCGTTGTTACCACTGCTTACTGCGTTCCCAGCATTCT  
TTTCTCTTCTCGTTTCTGTAGATTCCGGCTAATGGTTTCCCTTGGCATT  
TGACTTCGTGATGTGTAAGTATTCTTCTTCTGAAGGGGAAACGCATT  
CAGAGCATTGTTCGGGCTCATGTAGGAATAGATCTTTGACTGCCCGGTA  
AATCCCGCGT

&gt;433.1

GCGGCCGCCCGGGCAGGTACAAATCTACCTCCCCACCAATGTCCTTAGA  
GGGCCAAAGATGGC

&gt;433.2

GCAGTCATGAAGCTGGCAAATGGCAGAACTGGAGCTAGAACTGCTGACT  
CCCTTTATCTTTCCATAGCACCCCAAGCCTAAAACCAGACTGGCACAAA  
T

&gt;434.1

GCGGTGGCGGCCGAGGTACTTTTCTAAAAGCTCATCCACTCTATCATTTA  
GATATCCAATTTTCAAGATGTGCTCAACATTGGCCACTCCATCTGCCATT  
CTTAAGTCTCCTTGGGAGTCTCCAGAGAAGATTATGTTACTATTGTCTTT  
TAGTTGATTGAAATATTCTGTATTCTCAAGGCACCATCATGTTTGTAA  
ATACATGAATTAGTTCTCCTTTAAATCCTTTGAGCACCCCTATGAAAAA  
TATAAATCTTTGAACAGGCTTTAAAATTCTATTTGTTGGATTTTCATA  
TTTTGGAGCTCTTAATTGATGTCACTATTATTTATCATATTTGTAAATA  
CATCTTTGATACTAGAGATCTCAAAGCACTTAAGTCCATCACATTCACCA  
TAGCTAAGAAGGGCTCGGAGAAGTAAATGATTTTTTAGATACTATTTTAA  
ATGGTAAAACAAAAGCCGGGCGCAGGGGCTCACA

&gt;435.1

ACGCGGGGGTTGCTCAAACCGAGTTCTGGAGAACGCCATCAGCTCGCTGC  
TTAAAATTAAACCACAGGTTCCATTATGGGTGCACTTGATGGGAAAGTCA  
TCATCCTGA

&gt;436.1

GGCGGCCGAGGTACGCGGGGGAACACCACCCAGTGTGGAGCAGCCCAGCC

Table 3

AAGCACTGTCAGGAATCCTGGGGAGGCAGCTACCAACTGACTGCAGATCT  
GGAATAATAAGTGAGGGGTAGATCTGCCCATAGAGCTCACTTTAGACCGG  
CCTATACTCCTACAAAGAATTGTGGTAGGATC

>437.1

GGCCGAGGTACCTTTTTAGAAGAGAAAAGAATCTTGAATTGTATATATTT  
ATTTTGCTTTACAGAAAAAATGGTTTCGTAAATAATTTGCCTATTTTGG  
TTAACATAGCACATGGAGATAATCATCTGAAAGTTATAGGGCACTGCCAC  
TGCTGAATCAAGAGCATGCCCAATATTTGAGGTGGCTCTGATTTCTGGC  
AGCTGAACTCGGGTAGTCCAGTGGCCTAGCTGGTCTGCCCC

>438.1

AGGAGGAATTAGTGGATCCCCTAACACAGTGAGAGAGCAATGCGAGCAG  
TTGGAGAAATGTGTAAAGGCCCGGGAGCGGCTAGAGCTCTGTGATGAGCG  
TGTATCCTCTCGATCACATACAGAAGAGGATTGCACGGAGGAGCTCTTTG  
ACTTCTTGCATGCGAGGGACCATTTGCGTGGCCACAACTCTTTAACAAC  
TTGAAATAAATGTGTGGACTTAATTCACCCAGTCTTCATCATTGGGCA  
TCAGAATATTTCTTATGGTTT

>439.1

GTGGCGGCCGAGGTACTCTGTGATTTACCTAGATTTGGAGAAGGTGAGG  
GAGGAAAGGCTGTCTCTTTGATCCCATACCATGCAGGGGCAAATGGCTG

>440.1

GGCGGCCGAGGTACGCGGGATGTCTAAATATCTTGTA AAAAGTGTTAAAA  
TAAACAAACCCAGTCAATTAAAAATTTGACTGTTATTGAGAAAACCTC

>441.1

GCGGCCGAGGTACATTGTAGCTTTGAACTCAGTGTTTAAAAATTCATCT  
GGTTACACACTCTATCTTCTAGATCCCTTGAGACACTGTCTTCTTGAAT  
AAGGGCCAGGTGAAATGGCATTTCAGCTGTGGAAGGATTTCTCCAGGGA  
ATTCTTGGTGACCTCACTCATGACTGCCCTCTGTGTCTCTGCTGTTCCGA  
AAAGCTGGTGACCAGGCTGATTTGTTCTTCAGAAGTCTTCTGTCTGCCC  
CCGCGTACTGTTCTTGCAGGTTAAGGCAGGACTGGAACCTCCACAGCT  
TGCACATAGTTTTAGATTCAACACTAATCTTCCGAGTTTAAAGATGTGC  
CTGGGCAGCATAAAGCTGTGCTTCTTTGTTTCTTGCCTTTTAAAAATGA  
TCTTTGCTAAATCCAGCATATCCCAGGCAAGCTCTAGGTTCCCAATCTCC  
TCCTCCTCATTTTCTTGAAGAGACTTGTTTTCAAGGACTGAATCATTGG  
CATTTCTTCAGTCTTATCATTTTCTTATCATCCTCTTCCGAGCCTTCAG  
TTTCTTCAACCCTCTTTCATCTGGTCTTCTCTCTTGGGGCTCTTCATTA  
GCAGCTA

>442.1

GGCGGCCCGCCCGGGCACGTACTTTTGCTGCTGAGGAATGGAATCAAAAGA  
ACGTAGTCTCCTGGTAACCACTCAGATCTCTATTATTAGGCTAGATGTG  
GGGCGGGTGACTCCCCAGCTTCTTGCTCTCGACCCTGCACTGTAAGTTG  
CCCTTCTATTAGCAGCCAAGGAAAAGGGAAACATGAGCTTATCCAGAACG  
GTGGCAGAGTCTCCTTGGCAATCAACCAACGTTGCTATGAAATATGCCTC  
ACACTGTATAGCTCATTATAGGACGTCAGGTTTGTGAAAAAGTGGGCA  
AGACATGATTAATGAATCAGAATCCTGTTTCATTGGTGACTTGGATAAAG  
ACTTTTAAATTTTAAAAAAAATATTCATGGAATAGGGT

>443.1

CCCGCGGTGGCGGCCGAGGTACATGAGAGACACTTTAAGCAGGCTCACAG  
GAATAGAGTGAGTGCGGACTCAGATTGTTTAAGCTATCTCTGAACCCATT  
CCTACTGCGTTTAACTATTTTATTGGTTTCTAACTACTACCACAGACAG  
GATACCTCACAGGTTCCATTATTACTCACAGCGTTGTGGTCCGGGTTTCAT  
CGCCATCCTGCTCCACGCTGTCATAATCCTCACGCATCCGCGCTCGGGAC  
CCCTCTTCTATAAGGGACATACACGAGATCACCGAAAACCTCCTCTTCT  
CCCATTGTTCCCTATGAGGTGGGGACTCCAAAACCCGTAGCTCCTGC  
CCTACTAGGCCACTCTACCCATT

>444.1

CCACCGCGGTGGCGGCCGAGGTACCCAGCCCCACCCAGGCAAACAGCTCC

Table 3

GACATGTTTCGTAAGTGAGACAAGCCAGTGCA  
>444.2  
GTTATGGCTAAGCACATAGAAGGCCAAAAAAGGAGTTTTTCAAACCCAGC  
AAATCAAGTGCTTGGATTCTGAACTGCCAAAAGAAAAGTGCACCTCCCCT  
CTTAAGTAAAACGAAATGAGTTTCTTAGGTAAATGTATTCATCAGCCCAG  
ATAAAAAAAAAACCAGTTATGTGAGCGTTAGTCACTGCTCATTTCCAGGA  
AGATCAAACAAAATACCAGCCCAGCCAGACTCACATGTGTGTATATATAT  
ATAAAGCAAAGAGCCCCGCCACAAGCCAGCA  
>445.1  
ACTTTACTAAAATGACTGCATTCTTTGGATTCTTCAGTCTATGGTTCAA  
GTCATAAAGATTCATTTTGTTGAGTCCTTATGAGAAACAGCAGTATGA  
ATCTTGACGGTTTCTGCCCGTCCTAATGGCAGAGCTCTCTGACTTGGGTG  
TATGCTACCAGGCTGGGTTCAAGTGAGAAGTTCTGGTCAGTCTTCTGTGG  
GTTGAAGGTTCAATATCAATTCTGTTTCAAAGCCTTTGTGATGCTATTTG  
AATCTTTGCTCGGTATATGCCACCCAGTGGTCAGTCTGGGACCTAGGTGG  
TGAGCTATCCCATAGTTCATTCTCAACGTCTTTACTGCACTGTTTAGGGT  
CAGATACATATATATACAACTTTGGGTGAGCTCAGGAGTTTATAAGCT  
TTATGGGCTTGGTGTTTTGATTTATAAACAGGAGTTTATAGAAGCTTTAT  
>446.1  
GCGGCCGAGGTACGCGGGGAGACACAAGTTCCTGGGCTTAGATATTTTCAG  
A  
>446.2  
TTAGTTTGTTCATGCTGCTGATAAAGACATACCTGAAACTGGGAACAG  
AAAGAGGTCTAATTGGACTTACAGTTCACATGACTGGGGAGGCCTCAAA  
ATCACGGTGAGAGGTGAAAGGCACTTTTTACATTGGCAACAAGAGAAAAA  
TGAG  
>447.1  
CGGCCGAGGTACGTTTTGTGACAGGCAATAAAATTTTAAGAATTCTTAAG  
TCTAAGGGACTTGCTCCTGATCTTCCTGAAGATCTCTACCATTTAATTAA  
GAAAGCAGTG  
>447.2  
CGAAAGCATCTTGAGAGGAACAGAAAGGATAAGGATGCTAAATTCCGTCT  
GATTCTAATAG  
>447.3  
GTTTTGGGCTTCCGATATTAATAAGACCAAGCTGAGTCCTCCCTCCCAAT  
TGGAATATGAATCATCTACAGCCTTCTGCCCTGGTCGCATAAAATTATG  
TCTGGTGTCTCAAGGCAATTAATAATGATTGTTTTAACACCAACAA  
>448.1  
GGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTGTAGTGTTTT  
CTGATGCTTTTTCTAACAAATCTTGCCTGCCCAAAGTCTCAAAAACAT  
TCTCACGTTTCTA  
>448.2  
AGTCCATGTTGCCCAAAGTGGTCTGGAACCAACACACCCAGCTAATTTTT  
GTGAATTGCGGGTACCAGCACACCGGCGCGCTCCTGGACTGCGCCTTCTA  
CGATCCAACGCATGCCTGGAGTGGAGGACTAGATCATCAATTGAAAATGC  
ATGATTTGAACACTGATCAAGAAAATCTTGTGGGACCCATGATGCCCT  
ATCAGATGTGTTGAATACTGTCCAGAAGTGAATATGATGGTCACTGGAAG  
TTGGGATCAGACAGTTAACTGTGGGATCCCAGAAGTCTTGTAAATGCTG  
GGACCTTCTCTCAGCCTGAAAAGGTATATACCCTCTCAGTGTCTGG  
>449.1  
CGGCCGGGTACAAAAAGCAGGGGGCCAGCCCCAGCTGTTGGCTACATGAG  
TATTTAGAGGAAGTAAGGTAGCAGGCAGTCCAGCCCTGATGTGGAGACAC  
ATGGGATTTTTGGAAATCAGCTTCTGGAGGAATGCATGTCACAGGCGGGAC  
TTTTTCAGAGAGTGGTGACGCGCCAGACATTTTGCACATAAGGCACCAAA  
CAGCCCAGGACTGCCGAGACTCTGGCCGCCCGAAGGAGCCTGCTTTGGTA  
CCTGCCCGGGCGGCCGTGATCTCCTTGTGTTCAAGCAACTTCTGCGGT

Table 3

AGTCCTGAAGCGCCTTATCTCTAGGGTCCGCCATGATGAGAACCCCGCGT  
>450.1  
GGCGGCCGAGGTACTCCCTACGGCACTAGTCTACAGGGGGAAGGACGCTC  
TGTGCTGGCAGCGGTGGCTCACATGGCCTGTCTGCACTGTAACACAGGC  
TGGGATGTAGCCAGGACTTGGTCTCCTTCCCGCGTCAAGAGATAGAAAGA  
CCAGTCCTTGTGAAAGACAAGTCTGAATGCTCCACTTTTTCAATTCTCTC  
TCCATTCTTCAGTAAGTCAACTTCAATGTCGGATGGATGAAACCCAGACA  
CATAGCAATTCAGGAAATTTGACTTTCCATTCTCTGCTGGATGACGTGAG  
TAAACCTGAATCTTTGGAGT  
>451.1  
GAGCGGCCCGCCCGGCAGGACAAATGAGTTTAGAAATGTTGTATAAGGCTG  
ATCTGGACCCAACTAAAACAA  
>451.2  
GGTTTTTTGTAGAAACCATGGTAAAAAGGGAAAAGAAACCTTTGACTGG  
CGGGGGCAGGGGGAATACAAAAAATCCCTTGATTTTTAAATATAC  
TTGAATATCAAACTCAGAAAGAGTTATTTTTGTGAAAGAGGCCAAAATTGG  
TCTTGAGCTGCTTCAGTCTATGTCTGAAGGTTTTACTGAAATTATGGTCC  
AGTTTTAGGAGAAAAATTCACAGAAAAGTCAGATTGTAGATTTTGAGAAG  
GAAACTCTGAGGTGGTGATTTTCTCCAAGGTCATGGTTATGAAGCTCAAT  
GAGGGCCTGAATTGCTTCTTCCACAGATCCCAATTGAATGAGCGCCATT  
TGCGATCTTCTGAAAGAATTTAAAAGCCTTCACTGAACATCCAGCTTCT  
ATGAAAAGGTTCTTCAGATCATCCACTGTAACAGAAGGGGGAATGTTGGA  
AAGA  
>452.1  
GCGGCCGCTAATGTTAGAAGTTAAGTTGGAACCTATATTGTAGAGGAACA  
AAAGCCAATCAGTGTCTTTTTGTCTTTTTACATAAACTTTTACTACA  
AAAATTAATATATGGATTTTGAATTTCCAGTCAAACCAAATTGTAAACT  
GTTTCATTTGGTTCTATATTATGTATACATAATTTATCTATTATATATT  
ACATTAAAATATATGCATATATAATGGATTTAATTTCTTTTGGCACCCC  
CATATCTAGAAGTCTCTTCATAAATTAATAAATAATCTAGGGCCAGCATT  
ATGTTTGCTAGACCTGGATTTGGCTCAATACTTAAAGTTAAAAGTTTCTG  
TCTTTTTCTTGGACTTGAAACTGCCTAGAGCGTCAGTCTCTCTGTTATT  
TTTTCTATTTTCTTTTCCCCCATCAGTCTTTTAGCCACTTGAAGCCAA  
AATTCCTAGTTTCTGTCTAGTCGATAAGAGTAAAAGGGGAAGGAGGAAA  
A  
>453.1  
TGCGGCCCTTATCCCGGGTAACCTATACGTCTTTGAGGTCCCAACCCCGG  
>454.1  
CGCGGGGACCTTTACGGGCGGGGGGAGCTGAGGCTCCTGCCGACATCTC  
TGATCCTTGCACCCTGGCAGGAAGCTGGTCGCGGGCACTATAACGGGAGG  
CCTCCACATATTCCAGAAAAGAAACCACTCTGCAGTGCCAGACTGGAAGA  
AGTAACGGTCACTCTGAAAACAGGGGGGAGAGCTGCCTCCCTTTGAACC  
TCTCCAGGACCAACTCTAACCAGGGAGGGGAACTTGGTCGGTGCAAGC  
GGTGGCTTGGAGACAGAATCATCTAATGAAAAAGATACACTAGAAGGCGC  
TGGGGATACATCAGAGGAGAGGGATACTCACGCGGGCTCCGTGGATGAAG  
AGAATGGCCGACAGTTGGGCGAGGTAGAGCTGCAATGTGGG  
>455.1  
ACGCGGGGAGGATCTCTGTCTTTTGTTCCTCACCTGTCTGCCTGTCTCC  
TCTCCTTTCTGCCTGGGGGGACTGTCCAGAAGACATCATCGTCCAGTTC  
CTCTGCATTTGAACAGCTGATCCCCACCCCTCAATACCGTTTAGAGCAG  
AAGCCAGCAATAACTAAACGGTCAGGGACAGATAGAACTATTTTCGGCT  
TCATGGGCCACACAGCCTCATTGTAGCTTCTCAAATCTGCTGTTGTAGCA  
AGAAAGAAGCCATATACCTGTGTAAACAAATGAATATGGCTGTGTGCCA  
ATAAACTATTCAAAACATAAAGAGTGGGCTGGATATGACTCAGATACT  
GTTGTTTGACAACCCCTGATCTAGAGTAAAAATTCCAAAC  
>456.1

Table 3

CGGGCCGAGGTACAACATGACATTTTTTAACCAATCCAATCTAAAAATGTG  
CCAGAATCCACCTGTGGCCCGAATCGTGTTTGTTCCCTCTTTCTACTCCA  
CTGCAGATGACCAAACCTGTCCCGCTGCCACTTTCCTCACTGATATTGGG  
AGGAGGGCAAGGCCAGCCGAAGTCCACTAAAAATGCCCCAGGAGAATA  
GGCACC GGCTGGCTTGCCAAAGGGTTTGGGTTTTATTGCTTTCTGTTTT  
TCTTTCCCGACAGCACAAAGAAGTAAGGGCAGTTATTGGACAGGTGTTA  
TTTAAACATTCTATTGTAAATGAATGTGTTGTTTGGTTCTACTGCATTGT  
GGAGCATGCGGGGAAGAGAAGTGAACCCAGGTAATGAA  
>458.1  
ACAGACAAAACCTACAGACTTAGTCTGGTGGACTGGACTAATTACTTGAAG  
GATTTAGATAGAGTATTTGCACTGCTGAAGAGTCACTATGAGCAAAATAA  
AACAAATAAGACTCAAACCTGCTCAAAGTGACGGGTTCTTGGTTGTCTCTG  
CTGAGCACGCTGTGTCAATGGAGATGGCCTCTGCTGACTCAGATGAAGAC  
CCAAGGCATAAGGTTGGGAAAACACCTCATTTGACCTGCCAGCTGACCT  
TCAAACCCTGCATTTGAACCGACCAACATTAAGTCCAGAGAGTAAACTTG  
AATGGAATAACGACATTCCAGAAGTTAATCATTTGAATTCTGAACACTGG  
AGAAAAACCGAAAAATGGACGGGGCATGAAGAGACTAATCATCTGGAAAC  
CGATTTCACTGGCGATGGCATGACAGAGCTAGAGCTCGGGCCCAGCCCCA  
AGCTGCAGCCCATTACAGCACCCGA  
>459.1  
TGGCGGCCGCCCGGGCAGGTACGCGGGTAGTGAGCTGGTTAGTGAAGGCT  
TTGTAGCTGAGCAGTTTCTAAATAACACAGCCACTCAACTGACATACCAT  
GGATTATGTGAACCTCAACGGTTCAGGAAGGAGAACTTTGTGTGT  
CTTTGGGAATAATCATTTTAGCACCATGACCAAATACAAGGGTCAACTGT  
ATTTGTTGGTAACGGACCGGGGTTTCTTACTGAAGAGAAAGTTGTTTGG  
GAAAGCCTACACAACGTAGATGGTGATGGAATTTCTGTGACTCAGAATT  
TCATCTTCGACCTCCTTCAGATCCTGAACTGTATACAAAGGACAACAAG  
ATCAGATAGATCAGGATTATCTTATGGCATTATCTCTACAACAAGAACAG  
CAGAGCCAAGAGATCAATTGGGAACAAATCCCGGAAGGAATCAGTGATTT  
GGAAGTAGCAAAGAACTCCAAGAGGAAGAGGACAGACCGGCTTCTAATA  
CTATCAGG  
>460.1  
TGGCGGCCGAGGTACGAATGTGCAAAATTAAGCATGGTAAACTGATATT  
TACATAAATATCAAACCAACAATTAGTTTATACATTGTCAATGACCTTCT  
AAGATATGTCATGAGTGGATCCAAGAATATCTTTCCCCCAATGGAGAAGG  
TATTCAGAGGCTAAATCCGACACTTTAAATGACACACATCATAGGCTT  
TACCTGTTTGACCACTGCCTCAAATGTGTGAGATGTGATTTTATGATCCC  
GCGT  
>460.2  
TAGACTTCAGGGAAACAACACGTCCTGAAAGAAACATGATTCCCCTCAAG  
CCACAAAGGATTTTCTCATCAAGTGTTTTCACCTCTGCATTAGATTTGGA  
CACAAGAAGAGGAGAGCATTACTCAGGTAAAAATAGTTCTCTTAGTCTC  
TTCTCTAGTTACTAATTTTAAATTTAAAAATACAATTAAGTATCTAGC  
TGATAAAAGTCACAGACAGAAATAAGCTAAGTTCTCTCTTCTTTAGGGA  
ACGCTGGTGGAATTCACCATATAAACTGGATGGAAGAATTCTCCA  
>461.1  
CTGGAGTTCTAGCAAGTCGGCCAGGATGTCTAAGGCTGAGTTTGAGAAAG  
CTGCAGAGGAGGTTAGGCACCTTAAGACCAAGCCATCGGATGAGGAGATG  
CTGTTTCTATGGCCACTACAAACAAGCAACTGTGGGCGACATAAAAC  
AGGAACGGCCCCGGGATGTTGGACTTCACGGGCAAGGCCAAGTTGGATGCC  
TGGAATGAGCTGAAAGGGACTTCCAAGGAAAGATGCCATGAAAGCTTACA  
TCAACAAAGTAGAAGAGCTAAAGAAAAAATACGGGATATGAGAGACTGGA  
TTTGGTTACTGTGCCATGTGTTTATCCTAAACTGAGACAATGCCTTGTTT  
TTTTCTAATACCGGGGATGGTGGGAATTCGGGAAAATAACCAGTTAAACC  
AGCTACTCAAGGCTGCTTACCATACGGGTCTAACAGATTAGGGGCTAAAA  
ACGATTACTGACTT

Table 3

>462.1  
ACCGCGGTGGCGGCCGAGGTACGCGGGATATTGTTCTGATTTGCCTGAT  
GTGTGGACGGATCACCAAGCGAGTGACACGAGAGCTCAAGGACAGGCTAC  
AATACAGGTCAGAGACAATGGCTTATAAAGGTTTAGTGTGGTCTCAGGAT  
GTGACAGGCAGTCCAGCCTGACCTTTCTGCACACTCCAGACAACTTCCC  
AGACAAGCTCCTTTGTGCCTCTACGTGGAGAGGGCGTGGAAGTTATCAC  
ATTTAAAGATGGAGGATTTAAAAATAAAAAAAAAAAAAAAAAAAAAAG  
T  
>463.1  
CCGACCGTGCCGCTTACCCGGATACCTGTCCGCTATTCTCCCTTCGGGA  
AAGCCGTGGGCGCTTTCTTCATAAGCCTCACCGCTGTAGG  
>463.2  
AGGACACCGACTTATCCGGCCACCTGGGCAGGCAGCCAAGTGGGGTAAAC  
AAGGGATTAAGCAG  
>464.1  
TTTTTTTTTTTTAAACCGCTGCCACCACCATGAAAGAGGGGCCACCACA  
TTTTATTGCATACTCAGGGGAATAACTTATTATACAATGAACACTCCTC  
CATTAGGAGACCATGCCCACTTACAGAATGCAGCCGTAAATGCGGTAAAT  
CTATTTACAGAGGTTGGGGTGCAAGATGAGAGAAGTATCACCCCCAGGAA  
TTTGAAGTGAGAATGATCTACAAATTCTCCTGACAAGGAGCAACCGGGCT  
TGTGCTAGTGAGGGCTGAAAAATTCTTGCAAAACGTAGGGGGAGATTA  
AATCTCGGAATTGACAGCAAGTTTGGGGA  
>465.1  
GCGGCCGAACGCAGAGAAGGTAGAAGATAGCACCATGCCGATTCGTCGAA  
CTGTGAATTCTACCCGGGAACTCCTCCCAAAGCAAGCTTGCTGAAGGG  
GAGGAAGAAAAGCCAGAACCAGACATAAGTTCAGAGGAATCTGTCTCCAC  
TGTAAGAACAAGAGAATGAACTCCACCTGCTACTTCGAGTGAGGCAG  
AGCAGCCAAAGGGGGAACCTGAGAATGAAGAGAAGGAAGAAAATAAGTCT  
TCTGAGGAAACCAAAAAGGATGAGAAAGATCAGTCTAAAGGATAAAAATT  
ATGATAAATAAAGT  
>466.1  
GGCGGCCGAGGTACGCGGGGAGGTGCGGTGCGCGCTTCTCCCGAGGTGGAA  
CGGGCGGCAGTCAAGCGCCGGCGTTCTCTGCCGTACCCCTTTCCTTGC  
>467.1  
TTGTTTTCTGAACTCAGCTGGACTGCATTTCCCAGCTTCCCTTGCA  
TTAAGTCACAAGTAGCGCTGTGACTGGGTTCTGCCCGGTAGAAGGTAAGC  
AGAAGTGATGTGTATCACT  
>468.1  
TGGAGCTCCACCGCGGTGGCGGTGCGGTGTGCTGTGCTCATCTGTCTTCCA  
AAGGAGGAACAGATCGGCAAGTGATCTGACGCGTGGCCGACAAATGCTG  
TCGAAGAAAGAAATAAAACCCTGAAACATGAGCGAGAGTGATCGAAACG  
TGTGGAATGCCTTCTTAAAGTTTATAAAAGTAAATCAAATTACATTTT  
TTTTTCAAAAAAATAATTTAAACTAAATGTACCTTAAA  
>469.1  
TGGAGCTCCACGCGGTGGCGGTGCGAAGGAGAATGGTATCACTCAGGCTC  
TCAGAGTGACACTGAAGCAAGACACTCATGGGGTAGGACATGACCCTGCC  
AAGGAGTTCACAAACCACTGGTGGAATGAGCTCTTCAACAAGACTGCGGC  
CAACTTGGTAGTGGAACTGGGCAGGATGGAGTACCTTCAGGATTGGCCT  
GTTATCTTCTTAGAACTAAGTTCATCTTAAAAATTTAAGAAGGTGGACA  
TTTCAACACCATCAAGTGATTTAGGTGACATGTTTAAAGTTAACTTGACT  
TCCTTGAATGACCTAGTTAGTAACTAGTCACTAGTAATTCGGTCACCAA  
GCAAAATCAAGCTGCAAGAAAGGAAGCCAATATTCAAATGCCATGTTAC  
CATCTAAACCC  
>470.1  
TTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTGATTTTATTGTCTACCTC  
TCTGGACTTGCTCCAGCATCCGGACCAAAACCATCAGTGCCACAGCCAC

Table 3

GACAGAAGCCGAACCGGAAGTTGACAACCTTCTGGTTTCAGATGCCACCC  
CAGACGGTTTCCGTCTGTCTGGACAGCTGATGAAGGGGTCTTCGACAAT  
TTTGTCTCAAATCAGAGATACCAAAAAGCAGTCTGAGCCACTGGAAAT  
AACCTACTTGCCCCCGAACGT  
>471.1  
TTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTT  
TGGGAAGACACAAAGATTTCAGACCACAGCCTACAGGGAGAGAGGATTCT  
GAGGATGGTGGTGCACTGTGAGTCCACGCAGGCCTCCTGGGCATAGGATG  
GAGCAATTCTATCTCACCTCAGGCCTAGCACAAAGGGCTTCAGTAAACCA  
CTGGAGTTTCCCTTCATTAGGATTCCATCCCAGGATATCCAGAGGACAAGA  
GGCTGGCCAACTGCAGGATTAGCCTATGCTCCCGTGCTGGATATAGGCTA  
CACGCAAGAGAAAGCTTGGGTGGGATCTCCTGATCCCCGCGT  
>472.1  
CGGGCAGGTACTATGGGTGTAGTGTTACTATTACAGTTAATTCGTCCTTT  
GTGTGCGCTGATAAATGCAGTGAGGATTGGAGCACTGTCCACTGAGTCTC  
TGTGCAACAACTTATCGGTGTGGCAGGGGTTTCCGGTGTCTGGCTCTGAT  
CTTGGTCTGCTGGATAGTCGTCTGTGTTTTTTCGGTGCCCAAGGCGACGGC  
TTTGGTATGGGTTCTGTGGCGGGGTGGTTGGCCAAGTGCTGTCTAATAATT  
TCAGGAGAGGATACTTTGTTGCTGCTGCAGGATCAGCCATGGTAGATTAT  
GGTTTTTGAGAACCAGATGGGGCACACAATTTCTAGTGTGCCCATTTAAC  
AG  
>473.1  
ACCGCGGTGGCGGACGAGGTACAAAATAATTATAATGTATTAACTCATAC  
TGCCTGTCTTTTATAGGGGAAAAAATAACCTTTTTTATTTTAAAGTTAT  
AAGGTGGGTACCTTTTGTGCTTGGATGACAGGGAATTAGCCTACCCC  
ATTTTGGTCTGGAACAGAAGACTTTCAAATTTAATATGGCCCAAGTGTCT  
TCCTACTTAAGTGCAAGATC  
>473.2  
TTCTCATTTTGAAAAGACATGCTTTTTCTTAAAGCAACAAAGGTGGTAGA  
GGAAATTTCTTAACTTTCTCAACGAG  
>474.1  
GGCGGCCGCCCGGGCAGGTACGCGGGGAGCTGAGCCGGTGGGTGAGCGG  
CGGCCACGGCATCCTGTGCTGTGGGGGCTACGAGGAAAGATCTAATTATC  
ATGGACCTGCGACAGTTTCTTATGTGCTGTCCCTGTGCACAGCCTTTGC  
CTTGAGCAAACCCACAGAAAAGAAGGACCGTGTACTTCTAAATTTGCACT  
TTATGTTTTGTAGGCTTGGAGCTTCTTGATTATGGGTTTTTTCGTTACAA  
AATTCACAACAGAATCAATACTTTGCATAAACATTATGGATGCTTTTTC  
TGTTTGT  
>475.1  
CGCGGTGGCGACAGGGTTACATTGGTAAGGGTGACAGTTAGAAGGGGAAG  
TCCTTTTAGTGAAATAGATGAGAGGTTTTAGATCTGCACAAACCTTTTC  
ATGGAAGTCCAACCTTTGCTCCTGGGTAGTTTAAAGGACGTAGTCCCATGT  
>476.1  
GGCTACACGCTAGGAACCTTGCAGCTTACAGTGACAGAGCTCCCATTAC  
GAGGCCACCACTCATCTCGATTTCTGGATCTCTAGGGAATGAGTAGAGCT  
CCACCTGGATTCCCTTTTCCAGTTTCTTATGTCCACAAGTCACTGTGCAC  
AGATAAGAGTGTTCTGTTCTCAAACTCACAGGGCTCAGGGTCAGCGTGGA  
ATTGGTCCCCTTCACTCCTCACCTTCCCGCTCAGAGGGCTGTCTATCTGG  
GTTCTCCAGGAGAAAGATGGGGATTACAGCCCATGACACCTACATGTCA  
ACATGACTGAGTCTCCAATCTGAGCAGCAATCCGGGGTCCAGGGGAGATC  
TCAACAGTAAATGGTTTTCTC  
>477.1  
CGGCGGCCGCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGG  
GCAAAAATATTTATTTAAATGATTTTTTAAAGTTTGAACCTTTATTGGAAG  
GAGTCCCTCTAATTCACACTTTCATCCTAGATAAATGGGTAAAGAACCACA  
TATGGAATATAAAGCATTGATTTTTTAAAAACCACATAGTAGCACAGTGA



Table 3

AAGAAATGCAATTCTCCAGGGTCTTAGAGAATTCAAAGGGGCATCTTAGG  
TGGTCTAAGAAACCAATTACAGTCTCATGGTTTTCTTTGGTTCAAGAT  
TAGAAGAGTCAGGTTACCACTACCTGTTTTTAGAGGTAGAATATGAACCT  
TCTACTAGTCCACAGTTTACTGGTCAGGTGGCCCCAAC  
>478.1  
CGCGGTGGCGGCCGAGGTACCTGCATCAGGGATAAGAACCCATTCCCCTC  
CCTTGTTCCGGTGTGCTCTCGCCATTGCACCATCCATGAGACGCACTCTT  
GTATAGAAGTAAAATTGCCTTGCTGAGAAAAAAAAAAAAAAAAAAAAA  
GT  
>479.1  
CGCGGTGGCGGCCGAGGTACGCGGGGGGTGTGGCCTGCATCTCAGCTGGC  
CGCCATCAGTGTAAATAGAGCTTAAAGTCATGGTTTGGCTGCATAAAAA  
TTTCTAACTTGGGTTGAATATTTGTAGCGAAGTATCTGTTTTCATTT  
>480.1  
ACAGATGCAAACGGAGGTGTAGACTGTGCAGCTGCCAAAGTGGTGACAAG  
CAATCCAGAGGACCATGAAAGGATCTTAATGCAAGTCATGAACCTGAATG  
TGCCGATGAGGCCTGGCATTCTTGTCAGAGACAGAGTAAGGAAGTGTG  
GCCACACCTTAGAAAAACAGAAGGGACATGGAGGCAGAAAAAAAAAAAA  
AAAAAAAAAACGT  
>481.1  
AATAACCCAAATTTGTTGATGTTTTGTGGCCAAGGTGAGGGCTGCAAGTG  
TTTTCTAAGGTTGAACATCAGAATAAAGGTATGGTGGCAAGTCCTCCT  
TCTGCTAGGCTGGCTGGCAAGGCCCTATGTCTTGACCTAGGTGGTAGTTA  
CAAGGGTATTTATTTGCCTTATAATAATCACTAACTATGTATTTGAGT  
AGATTTTATGTGTGTGCTTAATTTACAAAAAAAAAAAAAAAAAAAAA  
GGTG  
>482.1  
CTGAGAGATCCCTCATAATTTCCCCAAAGCGTAACCATGTGTGAATAAA  
TTTTGAGCTAGTAGGGTTGCAGCCACGAGTAAGTCTTCCCTTGTTATTGT  
GTAGCCAGAATGCCGCAAACTTCCATGCCTAAGCGAACTGTTGAGAGTA  
CGTTTCGATTTCTGACTGTGTTAGCCTGGAAGTGCTTGTCCCAACCTTGT  
TTCTGAGCATGAACGCCCGCAAGCCAACATGTTAGTTGAAGCATCAGGGC  
GATTAGCAGCATGATATCAAAACGCTCTGAGCTGCTCGTTCCGGCTATGGC  
GTAGGCCTAGTCCGTAGGCAGGACTTTTCAAGTCTCGGAAGGTTTCTTCA  
ATCTGCATTGCTTCAATAGATATTAACAAGTTGTTTGGGT  
>483.1  
TGGCGGCCGAGGTACTCTTCAAATTGTCAAGGTCATGAAAGACAGCAAA  
AAGTGAAGAATTCTTACAACTAGAGGAGACAAAGATTGGAG  
>484.1  
GATGTGAACAATGTGTCAATTGCTCTCAAGAGAAGGATGTGGATGGCCTGG  
ACCGCACAGCTGGTGCAATTCGAGGCCGGGCAGCCCGGGTCATTCACGTA  
GTCACCTCAGAGATGGACATCGAGCGGCCGCCCGGGCAGGTACACAAGCT  
TTATTGGGCAACAGCAACGAGCCACGCTGGCAAACAATGAAAGTAGAGTC  
GCTCAGAAACACGAAAGATCATATGTGTGTCATCACAGCATCGAGAATTT  
AAATCATCTGGAAGTTCCTGCTAAATTAAGCATACTGTGCCAGAGCTCC  
CCTCTAATCAAAAAACGCTGTCTGGTGAATTTGCAATGAGGATTACA  
GAGAGAGAGATCAACCAAGTGAAGGAAATCACAGACTCTTACATGAGTTTAC  
AGTTAACCCCACTGCACAAAATAATAAATTAGCCATAATTTGGTTTTTT  
TG  
>485.1  
CGTGAGGTATTGTTTGGATTGTTACAATGAACTTGCAATTTCTTTGTAAT  
GAAGAAAAATAACAGAGGAAATAACAACAATAACCTTTGGCCTGGAT  
TATCATCGGCTGGAAATTCATGTTGGATGCAAGTTTTTATTGATAACAAG  
TTATTTTTTGGTTTATATGCAAAAAATGTTTCAATGAATGCCTCCTATTTG  
GCTGGCACTGCCTAGGCATTTTACAGGTATTTATCCTAATCCTCACAA  
CAGCCCTATGAGGTAATCATTGTCCTCAGTTTACAGAAGCCTTGGGTGGG

Table 3

AGATTATTGCTTGATATACTTCTATTTGCCACACATTTTTGTTGGCAAGA  
CGTTCGTATCGGCTGGTGATTCACTGGTCAAGAGCTCTCATTGGCCAGGA  
GTTCTATTTGTTGCTGTAAGATTCAAATAATCAAATACTAGAATTTT  
CCCCACAAGAATGATGG  
>486.1  
TGGCGGCCGCCCGGGCAGGTACGCGGGAGTGTTGATTGAACAGAAAATTG  
GAAATCATAGTCAAAGGGCTTCCCTTGGTTCGCCACTCATTTATTTGTAA  
CTTGACTGGGGTGTTTTCTGCTTAAAAATTTCAATTCTCGTGGTAACAAC  
GCAGAGTAGAAGGAGAGGGTGACTTTACCGAACTGACAGCCATTGGGGAG  
GCAGATGCGGGTGTTGGAGGTGTGGGCTGAAGGTAGTGACTGTTGATTTT  
AAAAAGTGTGACTGTCAGTTGTATCTGTTGCTTTTCTCAATGATTCAGGG  
ATACAAATGGGCTTCTCTCATTCAATTAAGAAAACGCGACATCTTTCTA  
AGATTCTCTGTGGGAAAATGACTGTCAATAAAATGCGGGTTTCTGGGCCA  
AAAATTATAAATTTATGGAATATATAATACTAATAAGAATAATGTT  
>487.1  
GGTACTTGTTATTTGTTTCTATTATTACTGTTTGACTTCTCCCCAGGGTT  
CAGTCCTCAAGGGGCCATCCTGTCCCACCATGCAGTGCCCTAGCTTAGA  
GGCTCCCTCAATTCCCCCTGGCCACCACCCCCCACTCTGTGCCTGACCTT  
GAGGAGTCTTGTGTGCATTGCTGTGAATTAGCTCACTTGGTGATATGTCC  
TATATTGGCTAAATTGAAACCTGGAATTGTGGGGCAATCTATTAATAGCT  
GCCTTAAAGTCAGTAACCTACCCCTTAGGGAGGCTGGGGGAAAAGGTTAGA  
TTTTGTATTCAGGGGTTTTTTGTGT  
>488.1  
GTTTTTTTTTGTTTTTTTTTGGTGCTTTATTTTCAATATTTGTCTTATTA  
ATATTTTTCTTATTTTATAATGCAATTACAACGGTTTAGGAGACAAAACA  
ATATAAACAAACGAATGTTAAATAGTTTTTTTTAAAAATAGCTTGTTC  
TTGCAAGAAAGTCCATATAATCTTATTCCTCCCAATATAATTTTATAC  
TTTGCACTAAACCAAAATAGCTTATGGAAAATTAGTATTAATAGCTAAA  
CACAGAAAACCTACAGCTATAAATAACATAAAATACAGTTTAACTTAAT  
GTGATGCTTAAACAAAGCAAAC  
>489.1  
GGTGGCGGCCGACCGAAACCTGGTGAAGCCCTTTGGGCGATTGGTGATCA  
CCCCTAGATCCGTGAAAGCTGGCTGCCCCCATCCGGGCAAGCAGGGCC  
AAGGTGGCATCTTCACATTCCTGGAACCCACCCAGTAACAGCAGCAGGTA  
TTTCTTCTGGTAAATGAGAGCCTTTCGAAAACCTTCTGCCCTCAAGTATT  
TACCATAAATCTCTTTAAAGTGACATGTTTCAAGATCAGGGCTCAGAGTT  
TGAAGTAAAGAGTCATTTCTTAGTTTCAAGCTTTCAATTTGTATAACTTTAG  
CCTCTGCCCTTTTCAAAGATTTTTGGAGAGTCAATTTTTCTTTGTTTAT  
ACTTCTTTTTC  
>490.1  
AGTTTTCATCCGAATCCACTGGGGAATGGGACGATTTTGCTTTTGTCTT  
TGGCCAGGAATCGCTTAATCCTGAAAGTCTTGTGAGAAGACATGGCGAGC  
AGCGGAGTCAAGAACACACCACGATGGCGGAGAAAGGAAGAGGAGGCCCC  
GCGTCCTGCCCC  
>492.1  
CGCGGTGGCGGCCGAGGTACATGAGAGATAATGTTATGACAAGAATAGTT  
TCTGCAACATTAAGTATGGG  
>492.2  
TGGCTTGAATGAAATTACAAAGAGGAGGTGCATTAATAAATACCAGCAGT  
AAAATCTCTTGAAGAATTAAATGACAGGCTAAAAATAAATATAA  
>493.1  
ACGCGGGGGTGGCGGCGTTGGGTTGAGCGGGCTTTTTGGAAGTTTGTGGC  
GGAGTTCTGTGATATGAGCAACAATGGACCAGAAGATTTATCTCTAGCA  
GCAGAAAAAACAGCAGACAACTGCAAGAATTTCTTGGGCAGGGCCTGGG  
GAATGCTTTTTTATCTCATATTAGTGCCTGTGATGGCATCTTTCATCTAA  
CACGTGCTTTTGAAGATGATGATATCACGCACGTTGAAGGAAGTGTAGAT

Table 3

CCTATTCGAGATATAGAAAATAATACATGAAGAGCTTCAGCTTAAAGATGA  
GGAAATGATTGGGCCCATTATAGATAAACTAGAAAAGGTGCCTGTGAGAG  
GAGGAGATAAAAACTAAAACCTGAATATGATATAATGTGCAAAGTAAAA  
TCCTGGGTTATTAGATCAAAAGAAACCTGTTGCTTCTATCATGATTGGA  
AT  
>494.1  
CGGTGGCGGCCGAGGTACTCATGGTTGCTGTAAATTAGGCAGCCGTTCTG  
CAGGGTTTTGCTTAGCCAGGCTCCTCTGAGATCTGGCTATTCTGTCTTGT  
GGATTTTCAGTCCCCGCGTACCTGCCCGGGCGGTTGAGCGGTCGTCCGG  
TCAGGTACATATACATTATGTAATTAAGCGTGCATGTTTATGTATTA  
AAAATAATTGGATTAAACAAATATTATATATACATTATAACACCTAAAC  
GCATAGGCTGTTGTTATTACAAATAGTTATACCAATATTATTAATGA  
>495.1  
GATCTCAAGATCTGGACTTCTGTTGAAAAATTTTCCACGTGAGGTTTACT  
TATGTCTGTAAAGATGGGAAAAAATACAAGAACATTGTTCTACTAAAAG  
GATTAGAGGTCATCAATGATTATCATTTTAGAATGGTTAAGTCCTTACTG  
AGCAACGATTAAAACTTAATTTAAAAATGAGAGAAGAGTATGACAAAAT  
TCAGATTGCTGACTTGATGGAAGAAAAGTC  
>496.1  
CGGGCAGGTACCGTGAAAAGGCACCTTCTCCTTGAGAAGCCTGACAGTGTC  
GTTAATGTCCTGCTGGCGCATGGTGAAAATTTGAGGGCAACAGTAAAGCA  
CCCTCTTTAATTTCCCTTCTCCAAGCCCAAGCTTTTGCAGGTAAGTGGAG  
CGCTTCCTCATTTGCATAATAGGCAGTTTCAATAACTGGGGACTTT  
>497.1  
GAGCTCACCGGGTGGCGGCCGAGGTACTGGGAGCCTCATAAGGCTGGCTG  
TTGAGGTGTATTGACTGTGAAAGCCCGCATGTGAACCTCACAAAA  
>498.1  
ACAGGGCCTTCCACTTCAGCTGACTGAATTTAGGCAGTTCTGGCCACTTC  
AGTTTCCGCACCCAGGCCTCCTGACCCATGGTATCTACGATGAGATCCAG  
CTGTCCATTATACACCGTCACGTTGATCCCT  
>499.1  
GGGGCGGCCGAGGTACCTCAATTGATGATTCTGGTATGACCTAGCAAA  
TACACTGCTTTCACTGAAATTTAGTCTTGCAATCTGCTTTGGGTTCCCC  
AATCTAAGACAGAAACATACTCATTTTCCCATCACTGGACTTCCAGGTTG  
TTTTCAATTTTAACTGTTACAAACAAGGTGGCAACATTTATCTACAAAC  
CTCTGGATATACACGTAGGAAGCTTTTGGTATTTCCACTAGTGAAACTGC  
TCAGTTGAAGGGTATGTGGATCTTCATCTTTAATAAATATTACCAACATG  
TGAAAAGCCCGACAATGTCAAGGACTGGCAAGAGTGCCACATGTGATGGG  
TGTGGAATGGCAGCTCACTGTAGCAGGTGCTGGGGACTCAATTGGGGTCT  
TGGAGAAGCACTTAGTTATAGCAAGAATGTCTCATAA  
>500.1  
GGGGGTGCCCTAAATGAGTGAGCCTAACCTCACATTTAATTTGCCGTTTG  
CGCCTCAACTTGCGCCCGCTTTTCCAG  
>501.1  
TGTTAAAGCCTGGGGGTGCCTAATGAGTGGAGCTTAACTTCACAATTAA  
ATTGCCG  
>503.1  
GCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTATGAATTAT  
TTATTTTCTTCTCAGAAAAGGATGCGCCTCCACTTAGCAAGGCTGGGCA  
GGATGTGG  
>504.1  
TGCCTAATGAGGTGAGCTAACTCACATTAATTTGCGTTGCTGCTCACTGC  
CCCGCTTTCAGTCGGGAAAAAC  
>506.1  
ACTCGTCTTGGTGAGAGCGTGAGCTGCTGAGATTTGGGAGTCTGCGCTAG  
GCCCGCTTGGAGTTCTGAGCCGATGGAAGAGTTCACTCATGTTTGCACCC

Table 3

CGGGTGATGCGTGCTTTTCGCAAGAACAAGACTCTTGGCTATGGAGTCCC  
CATGTTGATGGATCCTGAGCTTGAAAAAACTGAAAGAGAATAAAATATC  
TTTAGAGTCGGAATATGAGAAAATCAAAGACTCCAAGTTTGATGACTGGA  
AGAATATTCGAGGACCCAGGCCTTGGGAAGATCCTGACCTTCTTCAAGGA  
AGAAATCCAGAAAGCCTTAAGACTAAGACAACCTGACTCTGCTGATTCTT  
TTTTCTTTTTTTTTTTTTAAATAAAAATATTATTAAGTGGACCTCCTA  
ATATATACTTCTATCAAGTGGAAGGAAATTCCCGGCCCATGGAACTTG  
GATATGGGTAATTTG  
>507.1  
GGTGGCGGCCGCGCCGGGCAGGTACGCGGAAATCCCCTAACTTCCTTGCTA  
TCTTCCCATCCCATATTTAGGTTAGATATGAGAAGTTGTGTAT  
>509.1  
CGGCCGAGGTACACTCCCACGACCACGGCATGGTCTCTTTCATATGGCTC  
AA  
>510.1  
AGCGGGGTGCGGGAGGCGGAAAAAAGAAATATACCCTGGCAGCGCTGC  
CGGCCGGAAGCGGAGAGGGACGCTAAGATCAGCAAATTCGCCAGTTTGG  
ATCCTTGTCTTTTCCGCCCTTTCCCCCATTAAATCCAGAACCCGTCA  
CATGATAATTA  
>514.1  
ACCTCCGAAATCTTACCTTCAGTCTTCTCTGCCACCCAGTCATTTATATG  
CTTCTGCACTCTTCAGTGTCTTCAGCAAAGGACAACCTCCTCCAGCTCTG  
CCTGATAGAACTTCTGACAGTATTCTTTAAAGTCTGGAAGGAAATCACAC  
GTCTTTTCTCCAAAGAGTCTGTTGGCAGTTCTAAGCAAGTACGCGGGGTA  
AGCAGGAAGTGAAACCACAGAGCTTCAAAAAAGAGCGGGACAGGGACAA  
GCGTATCTAAGAGGCTGAACATGAATCCACAGATCAGAAATCCGATGGAG  
CGGATGTATCGAGACACATTCTACGACAACCTTTGAAAACGAACCCATCCT  
CTATGGTCGGAGCTACACTTGGCTGTGCTATGAAGTGAAAATAAAGAGGG  
GCCGCTCAAATCTCCTTTGGGACACAGGGGTCTTTCGAGGCCAGGTGTAT  
TTC  
>515.1  
TGGAGCTCCCCGCGGTGGCGGTGCGAGGTACGCGGGGACGGCGGAGCTGGC  
TCTCACGTGGAGGCGGGTTAATTTGCCACCCGGAATGATCACCAGACA  
CACAAAGTAGACCTTGGGCTCCAGAGAAGAAAAAGAAAGAAAGTGGT  
CAAAGAACCAGAGACTCGATACTCAGTTTTTAAACAATGATGATTACTTTG  
CTGATGTTTCTCCTTTAAGAGCTACATCCCCCTCTAAGAGTGTGGCCCAT  
GGGCAGGCACCTGAGATGCCTCTAGTGAAGAAAAAAAAAAAAAAAAAAAA  
AGTACCTGCCCGGGCGGCCGCTCGACGTGGTTCGCGGCCGAGGTACAACCTG  
CAGTAAGAGGGACGGTTAATTCACAGCTTCCAGCTCTTGGCGCCAGAGTC  
CGATGCACTCCTGCAGATAACGGTCATTTCCATTCCGGGAGAACCTCTTC  
GAAAAACAACCCGGATGAGACTATCTGGCAAATTGCAGCCCTTGGCGGGC  
TTTTCAAATAG  
>516.1  
TTCCAGCATGTTGCATCTCTGCATTTATCCTATATCATTAAAAGAACATA  
AGTTATCATGGTGTTGGGTAAATTAGC  
>517.1  
ACGCGGGTGTTGATCCAGTTCTTGCTTTTCAACGAGAAGGATTTGGACGT  
CAGAGTATGTCAGAAAAACGCACAAAGCAATTTTCAGATGCCAGTCAATT  
GGATTTCTGTTAAACACGAAAATCAAAAAGCATGGATTTAGTAGCTGACG  
AGACTAACTCAATACAGTGGATGACTAGAAAGCAGGTTCTCCAGCAGA  
GATGTGGGTCTTCCCTGGGTCTGAAGAAGTCAAGCTCATTGGAGAGTCT  
GCAGACCGCAGTTGCCGAGGTGACTTTGAATGGGGATATTCCTTTCCATC  
GTCCA  
>518.1  
CCCCCAGGAGGGGGGGGGGCAAGCGGAAAAAAAAAACAAGACCCAAAGA  
AAAAACAAGGGGCACACAAAGC

Table 3

>519.1  
ACCTTTGTCAGCAATTTTGACAGTCATTAATGTTTGTGATAATTTTAAAT  
AAAGTGTC

>520.1  
ACTATGTTGAATAAATGTTTTTCCCTTTTAATTTTCTGCTTCCCTAG  
TGCATAGAA

>521.1  
CCGGGCAGGACGCGGGCGGCTCTTAGCGGTGGATCACTCGGCTCGTGCGT  
CGATGAAGAACGCAGCTAGCTGCGAGAATTAATGTGAATTGCAGGACACA  
TTGATCATCGACACTTCGAACGCACTTGCGGCCCGGGTTCTCCCGGGG  
CTACCGCCTGTCTGAGCCGTCGCTTCCAAAAAAAAAAAA

>522.1  
TTGGAGCTCCACGCGGTGGCGGCCGAGGTACACCTCCCCAAGCTCTCTTC  
CTCCGGCTCTAGCTATATAAGACGTGCCTGCTTCCCCTTCGCCTTCCACC  
AAGACTGTAAGTTTCCTGAGGCCTCCCCAGCTTCCTGCATGCTTCCTGTG  
CAGCCTGCAGAACTGTAAGTCAATTAACCTCTTTTCTTATAAATTACC  
CAGTCTCAGGTAGTTCTTCACAGCAATGTGAGAACAGACTAACAACAATC  
AACTCATGGCTTTAACACAAAAAAAAAATAGGTAAGTTCAAAATTAACATAT  
TACCACATCCAACCTCTTTATTCTTGAGAAAACAAAAAAGTCCAAATCA  
AAGGAAAGCACCCGTTTTAAACCCTCATATCTTCTCAGGGCTCACTGCA  
GTCTGGCCATATCTCAAGCAGGTCT

>523.1  
ACGCGGGGAGTGAGAGGGAACGAGAGTAAGAGAAAGAAAGAGTGAGGG  
GATGTAAACTCGAATAAATTTCAAAGTGCCTCCGAGGGATGCAACGGGCA  
AAAAGTGAAGTGTTCAGGCTTCAGATTGTAAGTACGATCTGAGGAAAAA  
TGAGGTTTGTGTGATTTTGCTAAATGCATCACCAACAGCGAATGGCTGC  
CTTAGGGACGGACAAAGAGCTGAGTGATTTACTGGATTTCAGTGCGATGT  
TTTCACTCCTGTGAGCAGTGGGAAAAAATGGACCAACTTCTTTGGCAAGT  
GGACATTTTACTGGCTCAAATGTAGAAGACAGAAGTAGCTCAGGGTCTG  
GGGAATGGAGGACATCCAAGCCCGTCCA

>524.1  
TTGGAGCTCCACGCGGTGGCGGCCGAGGTACGCGGGGCTCTTGAGGAGTG  
AGACTGCAGGAGATGTGGGCCGTGCCAAAGAGATGGATGAGACTGTTGCT  
GAGTTCATCAAGAGGACCATCTTGAAAATCCCCATGAATGAACTGACAAC  
AATCCTGAAGGCCTGGGATTTTTGTCTGAAAATCAACTGCAGACTGTAA  
ATTTCCGACAGAGAAAGGAATCTGTAGTTGAGCACTTGATCCATCTGTGT  
GAGGAAAAGCGTGCAAGTATCAGTGATGCTGCCCT

>526.1  
TAAAACTTAATGTCTTCTTTTTTTTCTCACTGGGTTTTTTCATAGATCGA  
GACATGTAAGCAGCATCATGGAGGTAAGTTTTTGACCTTGAGAAAATGTT  
TTTGTTCCTGTCCTGAGGACTATTTATAGACAGCTCTAACATGATAAC  
CCTCACTATGTGGAGAACATTGACAGAGTAACATTTTTTTTGGGGAAGAA  
GAATCCTACAGGGTCATGTTCCCTTCTCCTGTGGAGTGGGGGGGGAAGGT  
GTATGGCCCCAGGGATGGCCATATTACTGACCCTCTACAGAGAGGGCAA  
GGAAGTGCAGTATGGTATTGCAGGATAAAGGCAGGTGGTTACCCACATT  
ACCTGCAAGGCTTTGATCTTTCTTCTGCCATTTCCACATTGGACATCTCT  
GCTGAGGAGAGAAAAATGAACCACTCTTT

>527.1  
ACTCACAGTCACGCTCCTCTGAACCATCCTTGGGCTTCATGGGGTTGGCA  
TTGAGGATCCCTACGACAGTCCCCTGCTCCGTCTTCCAGAGCGCTTTGTG  
AATTCTCCAAATAAGAACAAGGACACACATTGTGTCAGGTACGAAGAT  
CATTCAGTTTCCATATGCTGAAGGTTTTTCCACTATTCACACTCTGTGGC  
GTAACCTTCTCAATATAACCCCAAATGTCACCCAATCTATTTCTTCCAG  
CTTCTCTGCGCCATCTTTTCTTCTGATCTGAGACAGTCTGATCAGTTT

>529.1  
CTCCCCGCGGTGGTCGGCCGAGGTACATTGTATACTGCAGTGTGCTCTAC

Table 3

ATGGCATTGGACAGGACATAATGTAAAACATAAAAGTGCAATTGTTACAC  
TTACATATGATAGTGAATGGCAACGTGACCAATTTTTGGTCTCAAGTTAA  
AATACCAAAACTATTACAGTGTCTACTGGATTTATGTCTATATGACAAA  
>530.1  
TTGGAGCTCCACGCGGTGGCGGCCGAGGTACTTGGAACCCATTTGGATT  
AATTAGAGGTCTGTCTGAAGGAGTTGAAGCTTTATTCTATGAACCCTTCC  
AGGGTGCTGTTCAAGGCCCTGAAGAATTTGCAGAGGGGTTAGTGATTGGA  
GTGAGAAGCCTCTTTGGACACACAGTAGGTGGTGCAGCAGGAGTTGTATC  
TCGAATCACCGGTTCTGTTGGGAAAGGTTTGGCAGCAATTACAATGGACA  
AGGAATATCAGCAAAAAAAAAAAAAAAAAAAAAAAAAAGTACCTGCC  
>531.1  
CTTCCCTGATAATAAATCACTGGAGAACAAAAGCGAATAACAGCAGGTCT  
CTCTT  
>532.1  
TAACACTCTTAGAAGACTGGTTTGTTCAATTTGACATTGGGACGTGCACCA  
ATTTTTATTACAAAAATCAAAAAAGTAAAAATTATTACAATATTTGCAGA  
GTATAACCACTAGTTGCCTAGACAAAAGCTAATTTCTACAAAATCAAAAA  
CTTAATGCAGTTTTATTAAGAGAGTCAAAATTTCTCTCAGTTAACTGGATA  
TACATAGTGGTATATATCTTAAAGCAGAAAACCCCAAAAAACAAAAACAA  
GGAAAAAAGAAAATACATGTCAACAGTCAGTTAAATATTTTGACCTGACA  
GTTTCTACAAATAGTGATTTTCACTACATATAAAGGAATCTGTTACATGT  
GGTAAACTTCCAGAAACCAAGTAGGAAGTGTGGAATAAAAAACAATAAAT  
TCAAACGCAGCCCCAGGCTGGGCCTGTTTTTCATG  
>534.1  
TCTGCAGATGAAAAAGCAGCTGAAAGGAGTCGTAAGGCTGGACCAATAAC  
CCTAAAACCTGAAGCCTGATTACTGGAGTGACAACTATTGAAAGAAGCAG  
AAGCGTTTGCTTATTATCGCCGGACACACTGCCAATGAGCGGCGGCGG  
CGTGGTGAAATGAGGGATCTCTTTGAGAAATTAAAGATCACTATTTGGAT  
TACTTCATTCTTCCAAGGTTTCCAAAAGTCTCATTCTTACTCGAGCCTTC  
AGTGAAATTCAGGGACTAACAGATCAGGCAGACAAATTGATAGGACAGAA  
AAATCTCCTGACTCGAAAACGGAATATTCTGATACGGAAGTATCGTCTC  
TTTCAGGTAAGACAGAAGAAGTGGTCCTGAAGAAGCTAGAGTATATTTAT  
GCAAAACAGCAAGCACT  
>538.1  
CGGCGGGTTTTGAAACACTGGACTGGATGGCACATGATCCAGAACTCCG  
CTCCGTTTGGCTTCCCAAGGATCCCACTCACTTCTAATCAGCGATCA  
CTGTTTTAATTTCTTTTT  
>538.2  
CACAGATCAGGCCTACCTCATTGGCATATTAAGAAAGTTGTCTCAAGTAT  
ATTTAGTGTTTATCATTTTACTATAGTTCTTCAAATGACTGACATTCATC  
TTTTCCCTACCTCTAAATTCCTTTCTTTTTCACATTATCTTCTTGATTG  
CTTTTTAATAGAAAAACA  
>538.3  
ACAAAGACATGGATTTACTGTGCATATTAGCAGATCCATACTGGAAAATG  
CATGGAGGTTTCATATACACCACTTAC  
>539.1  
AGAAAATCTGAGACACGTGAGGCCAGACAAAGCAAGGCCGGGGCTGATGG  
CCTGGCTGCCTGGTGGTTGATGGTTTTGCTCCCCCTACCTTTTTTTTTGA  
GTTTATTCTGATTGATTTTTTTCTTGGTTTCTGGATAAACCACCCTCTG  
GGGACAGGATAATAAAACATGTAATATTTTAAAGAAGGAAAAAAAAAAAA  
AAAAAAAAAGGGCCCCGGGCCCTCTAAAATAGAGGGTCCCC  
>540.1  
ACTTTATTTGCTAAAAAATGCTAATGATATCCAAACCATCAGCTACTTG  
TAATCTTTTTGCTGGTGGAGGGTTTTGTCTCAATTTGGTGGCTGCTGAC  
TGATCAGCGTGGTGGTTGCTGAAGGTTGGAGTGGTTGTGG  
>541.1

Table 3

CACCGCGGCGGCGGCCTGATGTACTTTTTTTTTTTTTTTTTTTGTTAAAA  
GACACAAGTAGTGATATATCAACATCTGTTAACTCGTGACCGTTTCTTT  
TTTTCAACTTCTTTTTCTTTTCAGTGCTTTCTTCTTCCATTACCTTTTC  
CTGATTTCCACTTTTCAGTTTCCATTGTTTCGCTATCTTCTGGTAGCCACA  
GCTCAGCTCCAATCTGCGAAATACGGCACTCTCTTTATTGACTACTGCTT  
CTCTCGGCCCCCGCGCTGGCC  
>542.1  
GCGGCGGCGGCGGCGGTACAAAATGTTAAGACGTTGTTTGTATTTGTAAG  
GCTGGTGATTTCAGAGAGCATATCTCTTATTCCTCACTTTCCACCCCCGT  
ATTTTGTAAATGACCATGATCAATGTTTTACTTTTTGTATAATGGGGTGG  
GGTGGAGTGGGGGCTATTGACAGTCACCCTGAGGTCCTTAGAGGACCAGC  
TATTGTATCACCTTGGATACTTGAAGTTTAAATGCTCAGTTGGGTCGGGTG  
GCATTTGACTTGGAGGCTGGCATGTTCAACAGAGCCTGGGGCCCTGTATC  
TGGGCAGCCTTTGAGGATTACTTATGATATTGAATGACAGTCTTAAGTGG  
CAACTCACGCCAGCTCATGCCCTTTTTGCCTGGACATGTGCTATTTTT  
AT  
>543.1  
GACACACCATGCACGCAAAACAAATTGCAATAATGTGATAAGTTCTTTAA  
AAGAGGTAAGAGCAACGTGCTTTGGGAGCAGAGAAGAGGGAGAAAGCAGC  
ATCTTGCCCTGGATGAGCCAGGGGACACAGAAGAGAAGCCCACTATCTCAT  
TTAATCTTTACAACCTCTCTTGCAAGGTTCCCTGGTTGTGAAAATACATGA  
GATGAATCATGAAGGCCACTATCATCCTCCTTCTGCTTGCAACAAGTTTCC  
TGGGCTGGACCGTTTCAACAGAGAGGCTTATTTGACTTTATGCTAGAAGA  
TGAGGCTTCTGGGATAGGCCAGAAAGTTCTGATGACCGCGACTTCGAGC  
CCTCCCTATGCCAGTGTGCCCTTCCGCTGTCAATGCCAT  
>544.1  
TGGCGGCGGAGGACACAATACTTACTTACAAATTTAATACTGCTTCAAGG  
TATTTAATCTAAAATTTTACCAACTTTGATTTGTCTGGTTAGGATATTTT  
GTTTTAGTGGATATGCTTTAATTCGGATCAATTACTGCAGTAAATCTCAT  
CCCTAAGCATGAAATGTTGTCAACAAATACCCAGTTCCATTTAGTTATCA  
ATTAGCCCAAATAAGAGATACAAAGTATAACAGTGACCAACCTTGTACCT  
GCCCCGGGCGGCCGCTCGACCACTGACATAGACTGAAAGCAAGAAGAGTGC  
TGTGTTTGTGCTATATCCCTCCAACACCTAAGGCAATGCATTTACAT  
CTTGCTGAGAGCAGATAACTCAATACCTGGAAGTGAAGAAATAGAAATCTA  
AAAGACGGAAGGCATCTAAAGAACAGTTCCCATCATGCCACAGCTGAGAA  
AT  
>545.1  
TGTTTCCTGTGTGAAATTTGTTATCCGCTTCACAAATTCACACAACATT  
AC  
>546.1  
CCGGGCAGGTACCTGATGCAGGGAATTGAAGCCAGACCCAAAACGGGCAA  
CCCAATAGGATGGCCATCTGCCCCATTAATGCCAGCTTGCCAAGTGTA  
TTATTAACAGTGCCCCCTTTCACTCTCAAAGAGTCCCTGTCCAGACAGG  
TAATTGTGAAAGTCGCCTTCAAAATGACTGGCCGGTAAGGAAAGTGGAGT  
GAGGGAAGCAGGGTAGGTGGAGGTGTGAAAGGGAGAAGGGCCTCATCTCA  
GGGTGGCTGGACCTGCACCAGCATCGGCCTGCATGAATGTGCTCCTACTC  
TTGCCAGGCTGAGTATCAAGAGAAGCAAGAAATCTAGATAAAAAATCCAA  
ATCCAGAAACATCAGCGTTTGAGGTTAACATGTTGGCAATTATTCAGCT  
TTATGA  
>547.1  
GGGCGCGGAGTCAGGTAAGCCCTGGCTGCCTCCACCCACTCCCAGGGAGA  
CCAAAAGCCTTCATACATCTCAAGTTGGGGGACAAAAAGGGGGAAGGGG  
GGGCACGAAGGCTCATCATTCAAAATAAAACAAAAATAAA  
>548.1  
GGTACCCTTTGTAATATCCTTTATATAAACAGTAAATGCTGTTTCCCTG  
AGTTCTGTGACCTGCTCTGGCAAATTAATCAAACCAAGAAGGGGGTTGT

Table 3

GGGAACCCCAATTTATAGCTATTCAAGTCAGAAAAAACAGGTTAGACAAT  
CTGGGGCTTGCGACTGGCATTGGAAGTGGGGGACAGTTGTGCGGGGCTCA  
GCCTTCAACCTGTGGGATCTGACGCTATCTCTGGGTAGATGAAGTAGAAT  
TGAAGTGGGGGACACCCAGCTGGTGTCCACTGCAGAATGAATTGCTTGCT  
TGATGTCTAGGGAGGCCGAGCAATTATAGCAGGAGGTGAAAAGCACTTCT  
TATTAGCAGTGGCAAGAGAAAATGAGAAGGAGCAAAAGCTGAAACTCCTG  
ATAAACCAATCAGATCTCATGAGGCTCATTAACTATAACAAGAATAGCAT  
GGGAAAGACT

&gt;549.1

TGGAACGCTGCAACGATTGTCGAGTCGTATAGCGTCTATGTACATATAG  
CAT

&gt;549.2

ATAGTCATTGGTGTAGAGATAGAAAATGCTTCGTACATGTCAATGGGAGA  
ATGGGTGGTACCACTACACCGGAACTATCCCTAAGTCCATCCGCCTGGGG  
CGAAAGGAAGGAAAAAAGA

&gt;550.1

CTGTGGAGAACCTACGCACTGCACGCCATGCCTGTTTCCTACTCAAGCCT  
CAAGACTTCTACCTTGATCTGCTTGCCTTCTTGACCATCTACCTAGAAC  
TAACCGAGTCCAGCTCCCAACCTGGCATGAGCTTGGACAGGGTGGACCG  
CCACCCTGCCTGAACCATGGAGACAGCC

&gt;551.1

GGCGGCCGAGGTACATTAGCAAAAACAGTGGACTTTGTGACCTTGAAAAA  
GTCATTTAACATCTCTGAACCCCTACTTTCTAAGTCTCTACAAGTAATATA  
TAGTGGGTGAGGTGTTCTTTCTTTGTTCTGTTACTCGGATGTGAACTCT  
CCTTTTGTAGATGAAACCATTGCGTAAGTAATATAAAGACTTTTCCCTGT  
AGTTATCTTACAGACTGGAGAGAGTGCTAGTGAATGCTTTTGTCTTCAAT  
GCCCATCTCTTGAAATATTGAAGGTGGAGTAGCAACCGGGCATTATATT  
ATCTCTTGAAAAGGACCTCAGCAATGGAGAATATCCCCATCATCACAAC  
TGTCATCACTCTGCCGCACGTGATTGTGGAGAATATCCCTCTCCATGTGA  
ATGCAGAAATGAGATTCAATTACAAAACGAA

&gt;552.1

TGGCCGGCCGCCCGGGCAGGTACTACAATGATTCTGAAGCACAGTGTATT  
CAGACAGATACAGTGAACCAAGTGAATATGTAAGGATGAAAGAAGAAGA  
GATGACAAAGAAATCCAAGTAAATGCCTTGCTTTGCAAATGTTTTTATA  
TTAAATCATAAGGGAAGGGAAGTACTGCCTTAAATGTTATCAAAGAGTT  
TTCTAACAAGGTTAATACCTTAGTTCTTAACATTTTTTTCTTTATGTGT  
AGTGTTTTTCATGCTACCTTGGTAGGAACTTATTTACAAACCATATTTAA  
AGGCTAATTTAAATATAAATAAATAAAGTGCTCTGAATAAAGCAGAAAT  
ATATTACAGTTCAATCCACAGAAAGGCATTCCAAACCAACCAATGACCA  
AGGCATATATAGTATTTGGAGGAATCAGGGGTTTGAAGGAGTACGGAGG  
AAGAATGAAGGAAAATGCAACCAGCATGATTATA

&gt;553.1

TGGCGGCCGAGGTACCCATCTCTGCCCATCACCGCTGGAATTTTGATGAC  
CTATTGGAAAAGATCTGGGACTATCTGAAACTAGTGAGAATTTACACCAA  
ACCCAAAGGCCAGTTACCAGATTACACATCCCCAGTGGTGCTTCTTACT  
TCGAGCGGCCGCCCGGCAGGGACTTCACACCAAACACTAGCTCAAGCAC  
TGACGTTATTCTACAGGACTATGAACCTTCATATCCACATTTACAGTCCG  
GACAGATAAAGGAAAACAACCCAAATCCAGGAGGCAATATAAAGGAAGA  
GAACAAAACACACATTACATCACTCACACTTAAAAATAGGGGAAGACCAA  
CAGGGGAACCTTTCGTTCTTCTGGATGTCTACTTAAAAATCCCATGTGG  
T

&gt;554.1

TGGCGGCCGAGGTACTCTTGAGATTGCTTTAAATTTTGATTGAAACAAC  
AATAATTTTGAAGTGTAGTAATGGGAGCACTAACTCTTACAACAGTTAG  
TGAATCGTTTAAAGAATCAGTTCAGTGTAGACATTTTGAAGGATTGTT  
TCCTGTGCTCTACAATAGCTTAGTGCAATGTGCACTTCTGTTTTACTTGC



Table 3

CATTTTCCTGCTCTGTTTTCTCTGTGACATGAAGCAACAGAACTGAGAT  
CAAAGTTAAGATTATATCCTGTTTGTAGTATCAGATATTTTCTGTGTAC  
ATTTACATTCAAGTTGATAACACTGGTGGTTTCATTTCAATACAAATTAT  
GCTAGAGAACTGACATTTTCAGACATGGTCATATATGCTATTTGAATT  
CCTTTATCTTGATACAGATCTTGATTGTGAATCTCTGATGATAGATGTGC  
AGCTAATTTGTCCCGAAACTCATGAAGAT  
>555.1  
TGGCGGCCGCCCGGGCAGGTACAAGACCATGACACGCCCAAAACACTTCC  
TGCAGATGTTGTCGTTGGAAAACGTGCTCTTACAGAAGCCAGTTGCAAG  
GACCTTGCTGCTGTCTTGTTGTCAGCAAGAAGCTGACACACCTGTGCTT  
GGCCAAAACCCCATTTGGGGATACAGGGGTGAAGTTTCTGTGTGAGGGCT  
TGAGTTACCCTGATTGTAACTGCAGACCTTGGTGTACAGCAATGCAGC  
ATAACCAAGCTTGGCTGTAGATATCTCTCAGAGGCGCTCCAAGAAGCCTG  
CAGCCTCACAAACCTGGACTTGAGTATCAACCAGATAGCTCGTGGATTGT  
GGATTCTCTGTGAGGCATTAGAGAATCCAACTGTAACCTAAAACACCTA  
CGGTTGAAGACCTATGAACTAATTTGGAAATC  
>556.1  
TGGCGGCCGAGGTACGCGGGGGGGGAGTGCGACTCGCAGCTGCAGCAAAT  
CTCAAAATAAAGAGGCAACGGCCTTTCTCTTCTCCATCTCTCTATAG  
CACACCTTTTATTTCTTTCTTTCTTTTAAAGCCTCACGAAAGATTTTA  
CTTGTAGATCAACTTTCAAATGTAGGAAGTCAGAATGGGTGACATCATC  
AGAAAAATATGTGGAGCTGATCACAAGAAGTGAAGAACCAGAGCACGAA  
AGCGGTTGTGACTCCTGGGCCCAGGGAGTTGACAGCGTCTGGGCTTCAGA  
GGAGCCAGCGCCTCCGAGTTGTCTTGAAGTGAGGCTCTGCTGTAGTCCTG  
TTCTTCTGGCTCTAAGATCTGAATGTTGTGACCACTAATTTGCTCTTCC  
TGGAGGGTAACCCAGTTTGGTCCACAAGGCTTGCTGCCCAATCTTTTGC  
AACAGTTGAACCA  
>557.1  
CTCCGGGTGGCGGCCGAGGTACTGGATGTCAGGTCTGCGAACTTCTTAG  
ATTTGACCTCAGTCCATAAACCACACTATCACCTCGGCCATCATATGTG  
TCTACTGTGGGGACAACCTGGAGTGAAGAACTTCGGTTGCTGGCAGGTCCGT  
GGGAAAATCAGTGACCAGTTCATCAGATTATCAGAATGGTGAGACTCAT  
CAGACTGGTGAGAATCATCAGTGTCTACA  
>557.2  
ACGCGGGGGGAGCGGGCCCTACCGTGTGCGCAGAAAGAGGAGGCGCTTGC  
CTTCAGCTTGTGGGAAATCCCGAAGATGGCCAAAGACAACCTCAACTGTTT  
GTTGCTTCCAGGGCCTGCTGATTTTGGAAATGTGATTATTGGGTTGGTG  
CGGGATTGCCCTGACTCCGGAGTGCATCTTCTTTGGATCTGACCAACACA  
GCCTCTACCCACTGCTTGAAGC  
>559.1  
TGGCGGCCGCCCGGGCAGGTACGCGGGGGGTGCCTGGCTCCGTTTCTGCTG  
TTTTGGTTCTTACAGTAGTCGGCGTAGGCCTTAGGTGGGTTCTGCGCCT  
TCTACCTCGCTGTTTCGGTTTTCTGGCTCCTCGGCCCTTTCTCCCTG  
TTGCAGCTGGGAGCGGACGAAGCGCAAGCTGGGATTTTTACTGTCTCC  
TGAAGAATTTAACACAAACATGGATATCAGACCAAATCATACAATTTATA  
TCAACAATATGAATGACAAAATTAAGGAAGATTGAAGAGATCCCTA  
TATGCCCTGTTTTCTCAATTTGGTCAATGTGTTGGACATTGTGGCTTTAA  
>560.1  
CGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTGTATCG  
GCAAGCGACGCTTAGACAGGCGTAGCCCCGGGAGGAACCCGGGGCCGCAA  
GTGCGTTCGAAGTGTGATGATCAATGTGTCCTGCAATTCACATTAATTC  
TCGACGCTAGCTTGCCTTCTATCGACGCACGAGCCGAGTGATCCACCGC  
TAAGAGTCGCCCGGGT  
>561.1  
CGGGTGGCGGGCAGGTACCATGTGGGAAGCGCTGTGAAGAGTTGTTGCC  
TTTCAAGATATACCCAAATCCAGTTCAGCCCGTGTCAATAAACTCC

Table 3

GCTGGCGTGAAAGATGACGTCCTTAGCCCAGCAGCTGCAACGACTCGCCC  
TCCCTCAAAGGGATGCCAGCCTTTTATTAGAGATGAAGTTGCTTCTTTG  
TTATTTGACCCCTAAGGAAGCGGCCACAATTGACAGGGACACCGTCTTCGC  
CATTGGTGAGCCATCTTTAACTTAGAAAAGCTCTTGAAGCGTTTGTT  
TCTGGATGTTACTGTTTTTTTTCCCCCCTGTTTTCTCTTCTGTACCCGT  
GCTCTTCCTTAACAGTTTCTGCATGTTGATGTATA  
>563.1  
CGATAAGCTTGATATCCGAATTCCTTGCAGCCCCGGGGGGGATTCCAC  
TTAAGTTTTCTTAAGAAGCCGGGCCCGCCCCGGGGGCCAAGGGTTACC  
CCCCGGGGGGGGGCCCGG  
>564.1  
ACCAAGTAGGATAATTACTACTGCCAACACACACATGCACGCATGCACAC  
ACACACACAGATGTATGCACGCACACACACTCTCACTCTAGACTGCTAA  
AAGCAAAAAAAAAAAAAAAAAAAAAAAAAAAGTCCC  
>565.1  
GCCAGACGCTCCTTATGAAAGTACCAAGAAGTGGGAAGCGGGGTGAGCTG  
CTGAAGATTTTTGGTATCGACAGGGATGCCATTGCACAAGCTGTGAGGGG  
CCTCATCACCAAGGCCTAGGGCGGGTATGAAGTGTGGGGCGGGGGTCTAT  
ACATTCTGAGATTCTGGGAAGGGGCTCAAAG  
>566.1  
TACGCGGGGGGGGACTGGAGGACCTGTCTGGTTATTATACAGACGCATAA  
CTGGAGGTGGGATCCACACAGCTCAGAACAGCTGGATCTTGCTCAGTCTC  
TGCCAGGGGAAGATTCTTGGAGGAGGCCCTGCAGCGACATGGAGGGAGC  
TGCTTTGCTGAGAGTCTCTGTCTCTGCATCTGGATGAGTGCACTTTTCC  
TTTGTGTGGGAGTGAGGGCAGAGGAAGCTGGAGCGAGGGTGCAACAAAAC  
GTTCCAAGTGGGACAGATACTGGAGATCCTCAAAGTAAGCCCCTCGGTGA  
CTGGGCTGCTGGCACCATGGACCCAGAGAGCAGTATCTTTATTGAGGATG  
CCATTAAAGTATTCAAGGAAAAAGTGAGCACACAGAATCTGCTACTCCTG  
CTGACTG  
>568.1  
CTTGCGGGGCGCTTTAACCGAGGACCCCTCCCCCGCGTACGCTGGATA  
GCCTTTTTTCCAGAAAGAGAGAGTAGCGCGAGCACAGCTAAGGCCACGGA  
GCGAGACATCTCGGCCGAATGCTGTCAGCTTCAGGAATCCCCGCGTACC  
TGCCCTTTTCTTTTT  
>569.1  
GGGAAAAATTTCTTTTTTTAGATGTCCACAAAAAGGACATGTAAAGGGG  
AAGGTCAAGTTGTTGAGACAGCTACTTTATTCTTGGGATGACTG  
>569.2  
GGAGGTGGTGGAGATGAGCCTTGTTTGCCAGATTTCCGTTCTAGTTTAC  
GAGTCGTTGACCCACAAGGT  
>571.1  
CTGTAAGAGGGACCTCTCATGGTTACAGGCTTTGACAACCCAGAATCAAA  
CTGGAGAACATTCGAAGCCGTTCTTATAAGTGTCTCCATCTCTACCTGG  
GCTGAAATGGAATGTGCAATGTAGCCAGCCTGGTCCTTGGGTGTTGCC  
AGTTGATTGATGACTGGGAGCCAAAGTGGCATTCTTTGACCTAAACGG  
GCGATGATGAAATAAATCGAGCGGCCCGCCGGCAGGTACATCTGTGAAT  
GTGAATGCCAAAGCGAAGGCATCCCTGAAAGTCCCAAGTGTCATGAAGGA  
AATGGGACATTTGAGTGTGGCGCGTGCAAGTGCAATGAAGGGCGTGTTGG  
TAGACATTGTGAATGCAGCACAGATGAAGTTAACAG  
>572.1  
GCCTCTACTTCCTCTGATAAAAAATGTTGGGAAAACACCTGAATTAAAGGA  
AGACTCATGCACTTGTTTTCTGGCAATGAAAGCAGCAAATTAGAAAATG  
AGTCCAAACTATTGTCAATTAACACTGATAAACTTTATG  
>573.1  
AAAGGAAAACACAAAAGCGCAAGCCGGACACACACAGGACAGCGAAGG  
GCAAC

Table 3

&gt;576.1

TTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGTAGGAGCCTCTCT  
CCCTACTGCTGCTACACAAGACCCTGAGACTGACCTGCAGGACGAAACCA  
TGAAGAGCCTGATCCTTCTTGCCATCC

&gt;577.1

ACAGAGACCTCCTTACTTACCCCCCTTCTCCTTCGGCTGGAGCTCGGCCGA  
GCGAGAGGCGGCGCTGGCGTTGGAGAGCGACGCGGCGCCCCGCGTAAGCA  
GTGGTAACAACGCAGAGTAACGCGGGAATGAAGAATCTTAGGCGGGTGCA  
CCCAGTTTCCACCATGATTAAGGGTCTTTACGGAATAAAGGATGATGTCT  
TCCTTAGTGTTCCCTTGCAATTTGGGACAGAATGGAATCTCAGACCTTGTG  
AAGGTGACTCTGACTTCTGAGGAAGAGGCCCCGTTTGAAGAAGAGTGCAGA  
TACACTTTGGGGATCCAAAAGGAGCTGCAATTTTAAAGTCTTCTGATGT  
CATATCATTTCACTGTCTAGGCTACAAC

&gt;578.1

TTGGAGCTCCACGCGGTGGCCCCGCCGGGCAGGTACCTCACAACGAGTTC  
AGTCAGTAGCAGAAGGATCTTCTCTTGTTCCTGATGATTTCAAGGTCC  
TCACAGTCCCTGATAATCTGGTTCTTCCCGAACTCCCAAATATCTATGGA  
GAGCTGTTCTAGCTTTTGCACAGGGAACCAAGTGGACAGAGGTATCATTAA  
ACATGTCCATGTATTGCGAAGTCTGAGGAACTCAAGCTCCTCCAGTCCT  
TTTAAAATCTTTGCAATGTAGGGATAATTTTCTGCAGAATCCTTGCCAA  
CAACCTCTCCTCAAGTCCTTTGAACTGTTCCCAATGATGACCATCTTAG  
AAAGGGCATCTACTGACCAGTTACTCCATAAAAGATTGTTGTACCTCGGC  
CGCTCTAG

&gt;579.1

GGTGGCGGCCGAGGTACTTTGGACAGTGAGGGTTCGATTCATTTTAGGGG  
TAGGGTTGGGGGTGGGAGTGGGAGTGTGGGTGGCAGGAGGAAGAATGAG  
TCTACTTTGGAGACAATTAAGTCATGGTACTTTTTTTTTTTTTTTTTTTT  
TTTTTTTGGCTACATAGACATCTTCTCATGTATTGTTACTAGAACAAC  
TGTATAGGGTTTTATGGTTTGGGGAACATTTTTAAAAAATGGACTTAT  
CTCTATTATACAGAGTTATAATATAAAAAATGATTTAAAGGCTATATTTT  
CAGCATGTAGGTAGCTACACTGTAATCCTGTTGAAGAACTTTCTATTT  
AAGCTTATAGGATGAAAATATATAATTAAGTCTTCTGATCATAGCTT

&gt;580.1

ACCATCCAAATGCTTCCCTGGTCTTGATGATCTCTTCCAGAGTCGATCTG  
AGTGGCCTTTTCTGCACCCTCCCTTCTTTCTCTTTGAATGGAATTAAAC  
CCAATTTGGAACAACATTGACCCAGTCAAAAGCTTCTAATGGTTTCTTT  
TTCTTCTCCAGTTTTAGTTTGCTTTTATTAAGGAAAGAAATAGTGCAT  
GGCCATAGCTCCTTCAGTTCTCTTATTGCAGACTAACCATCAGGATGGTA  
TCAAAGCACAAATACTTTGGAGGGGAATGCGTTGAAGTGGGGCAAGT

&gt;581.1

AGGGCCGGTTTTGCCGTTATTGGGGGCGCCTCTTTTCGCTTTTCTCGCTT  
CACTTGACTTCGCTGGCGC

&gt;582.1

TTTTAGAGATGAGCTCACC GCGGTGGCGGCCGAGGTACCAAATTGTA  
TACTCGAAGGCCTTCAGGAACCTGTGACTGATTTACATAAATACCAGAAC  
CTATTTTGGATGAGGTAAAAGACATGTGCTCATCTCCAATTACAGTTTCA  
AGCTGCTGTGCGCCAACCCTATCAGCGGGGAGGCCACAAAGCATAAGAAT  
TCTTTTGGGATTACACTGACATCAATAATTTTATCACTATCTTCCATTA  
CACTATTGTGCACATTAAGCCAATTTTCTGATCATCACA

&gt;583.1

CAGACAAGCTTTTCAATTTTTTTTCAAATCCGACATCTACTCCAACCTACAT  
GATACACTAAAGTGCTTGCTGTGTGGGCTTCCAGGGGAGATGAAATGGTA  
AGTCGGGCTGCAGCATCTCTGTTCAAAATATACACCAATTTCTGTTTCTC  
AATGGCACTAATCATAACGGCTCGCCCTTTGGGATCCACAGCTAAGAACT  
GGCCAGGAACGA

&gt;584.1

Table 3

GAGCTACCCGCGGTGGCGGCTGAGGGACATTACGTATTGGTTATACAACA  
TTTGTTTAATAAATGCAACTAACAAAGCTACACAAGACTTAGATATTGAA  
GCAGAAAAGGTGGTTTTACAGTCCCTGCATTAACCTCTAATTCTTACTAC  
CCTGGCCAAGAAAGCATTTCACCTCCTGCGCTTTCCTTCTGTGTGCTT  
GTGGTTGGTTCTTTCTTCTCAGGCTTTCTTATTCTGATGCTGAGATAGTT  
CTGTTCACTTAGCAACTTGGGACAGTGACACAGGGTTTGTCTGTACAAG  
CAGGTTATCCAAGAGGCATCCATACCCTGGGTTTTCTCCAACCATAAGG  
AAAATTGATGCAGCTGTTTCTGACAAGGAAAAGAAGAAAACATACTTCTT  
TGCAGCGGACAAATACTG

&gt;585.1

TAGTACCTGGGCCACCAAACACAGCTGGACTCAATATATGGGGAAGGTAA  
GTGTCCTCAGTTTTTGGAGAGAGATTACCCTCTTCCAAAAGAGTGCTTGA  
TTCTGGTAGTCCAAGCTGTCTCCGTCTGGTGGCACCCCAATTTCCCTGC  
CTAGACCCACCTCCTTTCCTCAGCCCCCTTCGCCTGCCGCTGAAAAGTGA  
GAGCGGGCTCTTGCGTCCCCCGCGT

&gt;587.1

TTGGAGCTCCCCGCGGTGGCGCGTTCGGGTACAGCTTTAAAGCATCATAA  
TGACTAATTATAGGTGAATAATTTTACAGACAGTCTATATTCTAGGAGGC  
AGCTGTAGGCGTTTTAATTGGAAATAAGCATTCTGAGATAATGATAATAG  
CAGTGTAGAAAAATGAAGCTAAAAAAATTCAAAGTGTTGAGAATCCTCCT  
GTCTTCTGGGATTTTTATTTTAATCATCTCCTCCACAGAGAACAAGCAG

&gt;587.2

TTTTTTTTTTTTTTTTTGGGGTTTATTTTATGCACAAAGAGCCATCGT  
GGTTTTTTATTAGGTAGATGCCCTGGATAATCCTTTCAAGGAAGATCACT  
TAGTCCAACCTTAATGAAACCAATATCCTTCGCATACT

&gt;588.1

TGGACAGGGAAGAGACCAACGACTGGATCCTTCCCTCAGACTATGATCAT  
GCAGAGGCAGAAAGCCAGGCACCTGGTCTATGAATCAGACCAAATCAAGGT  
TTTTTGTCTGTCCAAGGAGGAGATCGCTGACAAGTATGACTTATTTGTTG  
GCAGCCAGGCCGCAGATTTTGGGGAGGCCTTAGT

&gt;589.1

CCAGGGTCTCTGGTCTACCGATGTCAAAGCAAATCAGCACAGCATCCGAA  
TCAGGGTAAGAGAGGGGGCGGACATTGTCTAGTAAGGAGAATCCGAATT  
TTTCCACAGGCTCAACTCTATTCTTTGTGTGTGCGATTTCAAACCTGGCCG  
TGTAATTCTCAAACACTGTAGGAACGTAATTCTCGGGGAAGCAGTCCTTG  
GCGAAGACATGGAGCAGCGCAGTTTTTCCACACTGACTGTCTCCCACCAC  
AACTATCTTGCAT

&gt;591.1

TTGGAGCTCCACGCGGTGGCGGTGCGCCGGCAGGTAATCAGGTTTTATCT  
CTGCACTCCAAGTAGGATGAATAGATAAGAGCAAAGGCTCATGTTTGCCA  
AGTCTGTCTTTTGTAAACAAAAAACCAGCAGCTTTATCAAGCAGAATTC  
CACCTGTATTTCTTAACCTTGCCAGAGCTGAGTCTCATGGCCACCCTTAGC  
AGGAGTTGGGGAGGTATTTTAAACAAGGCACATTATCATCTCCCCACCC  
AAAGTGGAGCTATTGCTAATGAAAAAGATACAATGAGATGTTTATGAAAT  
TATCTGTAGCTATTAATGTCAGGTTTTTGAATTTACTGACCTGGAAGAA  
TACTCATAATGCAATGTCAAGTGAGAAGCAGGACAAAGAACATTTGCAAT  
ACAG

&gt;592.1

CCCGATTTAAAATTGGTGAGAAGTTCCTTCGGCTGGGCTGAGGACCCGAG  
GTCATGGGTGGATCTCATGGAGAGAGGGCGAGGACAGGGGACCGGTCTCC  
CAAAGGAGT

&gt;593.1

CCGCGGTGGCGGCCCGCCCGGGCAGGTACATAACTCCCGCAGGATCTCAGG  
GCCTGCCGCCCCATTATGATGATGTCGAGGTTTTTCATCCTGCAGCTGGAG  
GGAGAGAAACACTGGCGCCTCTACCACCCCACTGTGCCCTGGCACGAGA  
GTACCT

Table 3

>594.1  
GTGCGATTCTGGATGACAAAGAAGATGCTTACTTCACAGAAATTCGAAAT  
TTCATTGGGAACAGCAACCATGGCAGCCAATCTCCCAGGAATGTGGAGGA  
GAGAATGAATGGCAGTCATTTTAAAGATGAAAAGGCTTTGTCGAGCGGCC  
GCCCCGGCAGGTACTTT

>594.2  
TTTTTTTTTTTTTTTTTTTTAAGGAGCTTTTATTGTTTTAGTAATCTTA  
ACATAACTTAAATAAGAGAGGGGAAATGACATCTGGAGATCTAGGTATG  
TGGCCCATTTGCAATTGAGCACATTTCTTGGGTCTGTTTCTCTATCTCTAA  
GGGCAGTCTCAAACCCCAGCTCAAATACGACACTAACATGATGAACAT  
GCATGAGCTTTGAAAAGTGCTCTGTAGTCTTATGATGATCTAGAAGAGCA  
CTGTCCAATAGAACTTTCTGTGATGATGAAAAGATTCTACTTTTGA

>595.1  
TCACGGGTGGCGGCCGCCCGGGCAGGACATGGCCACCAAGTAAGAATGGT  
TGGTGACAACGACAGAAGGCTAAAACAGGAAGGTAATCTTGTGCACCTGA  
CAAATAGAAAGAATAAAGGATCAAATTTGAAGGCA

>596.1  
GGTGGCGGCCGCCCGGGCAGGTACTATTTAAGAAAAGAACAAGGTTAACT  
AACTAAAAGCAGAACTCACTTATTTTTTGTCTCCCTAGCCAATTTAAAAATA  
AGTTCATTAAAAGCACTTGAAATTATATATTTAACCTGAAAAAAGTTGC  
TAAAATTTCAATATAAATGTAAATATCTTTAACTTGCTTAACCCAGCTAT  
CCCCAAAACAGTGTAGTGGGGCAAATGTTCAAAAGAAAAATCATCCAGT  
GCACGTAGATGGGCACCAAGAAGCTAAGCTTCCCTGGCGCCTAC

>597.1  
CACTTTTTTTTTTTTTTTTTTTTTGAGTTACTCTGATGTTTATTTTA  
ATGCATCTTAGTCCACACAGTTGGTATAAAATCAGAAAATGCAAAGCAAA  
AACAAAAGGTCTGGAGTCTTAGCATCAGAAGGGGCACCATATATACATCTA  
CAGTTGGTGGCCAATACAAGTCATTGCCAGACAGTCCTTGGAGGCACAGA  
ACAGCCCAGACCCAGCCAAGCTCTAGGAACTCACGGGTCCCAGGGAGTTG  
TAAACCCTTGTTCTGATGCTCCAACCGTAAAAAAAATGTGGGAGTGATGA  
AGGCTTTATGATTTACTCATTATCCCGCGT

>598.1  
AAAGGCGCTGGGTGTTCAAATAGGCTCTCCTGGCCACGGCTGACTGTC  
TTCTTGTTGTCTCTACAGTGGACGTGACTCTGGACCCAGACACGGCCTAC  
CCCAGCCTGATCCTCTCTGATAATCTGCGGCAAGTGCGGTACAGTTACCT  
CCAACAGGACCTGCCTGACAACCCCGAGAGGTTCAATCTGTTTCCCTGTG  
TCTTGGGCTCTCCATGCTTCATCGCCGGGAGACATTATTGGGAGGTAGAG  
GTGGGAGATAAAGCCAAGTGGACCATAGGTGTCTGTGAAGACTCAGTGTG  
CAGAAAAGGTGGAGTAACCTCAGCCCCCAGAATGGATTCTGGGCAGTGT  
CTTTGTGGTATGGGAAAGAATATTGG

>599.1  
GTCCGGTAGAAAAATAGAGGTTCTGACTCCTCAGGAGCAAAAAACATAACC  
TGAAGAGGGAGGAAGTGGATTTGGGGTTCAACATTTCTTGGGGCACACTT  
GATTGAAAACCTGAGACTTCTGAAGAGAAGGCCAGAAGATACAAAGACAGA  
CCATGCCAGTTGAATGCTGTCTTCCAAGAACAGAAGAAAATGATCCAGGC  
CCAGGAATCCATAACACTGGAGGATGTGGCTGTGGACTTCACTTGGGAGG  
AGTGGCAACTCCTGGGCGCTGCTCAGAAGGACCTGTACCGGGACGTGATG  
TTGGAGAACTACAGCAACCTGGTGGCAGTGGGGTATCAAGCCAGCAAACC  
GGATGCACTCTTCAAGTTGGAACAAGGGGAACAACCGTGGACAATTGAAG  
ATGGAATCCACAGTGGAGCCTGT

>600.1  
TGGCCCAGGTGACCAATGGCCGCAGGCTCCATGGCGGCTGGCTTCTTCCA  
GCCCTTCATGTACCGCGCTTCCCAGGGGGCCCCCGGCCACCCTGCGGA  
TGCCGAGTCAGCCTCCCGCAGGCCTCCCTGGCTCCCAGCCCCCTCCTCCCT  
GGCGCCATGGAGCCCTCCCCACGAGCCCAGGGGCATCCGAGCATGGGCGG  
CCCAATGCAGAGGGTGACGCCTCCTCGTGGCATGGCCAGCGTGGGGCCCC

Table 3

AGAGCTATGGAGGTGGCATGCGACCCCCACCCAACCTCCCTCGCCGGCCCA  
GGCCTGCCTGCCATGAACATGGGCCCAGGAGTTCGTGGCCCGTGGGCCAG  
CCCCAGTGGAACTTCGATCCCCTACTGCTTCTCATCCCCCGGCAGCTAC  
ACCGGACCCCCAGGAGGGAGGTGGGCCCCCTGGAACACCCATCATGCCTA  
GCCCTGGAGATTC

>601.1

AATCTGAAAGTCAGAGGTGATTATTGATAGTACTTTTGTATTTTGATATG  
GACAGTTTATTCATTTGCATACAGTTATTGACTTTTTCCAGCTGATTAA  
AAGATAGTCAAGAAATTCTGCAATATAGCTGCCAAAATAGACAGCTACAT  
TTTTATGATATTGTCATCTTTTCTG

>601.2

TTTTTTTTCTTTTTTTCTTTAGCTATTTTACTTAAGCATAATAGCCAC  
AATAGGACATATAAAAGATTATAAATACAGAGCTTTATTATCTTGACGTC  
TTGGGTCTTTAAGTATATACTTTTCTGAAAGGTATCCATTTTGT

>602.1

CATCTGCGTGGGCGGCCAAGATCGGAGCAGCGACGCTGCGGGCTACCCCC  
ATGCCACCCATGACCTGTAGGGACCACCTCTAGATGCCTACTCGACTCAA  
GGACAACACACCATGTCTCCGCTCGATCTGGCCAAGCTGAACCAGGTGGC  
AAGACAACAGTCTCACTTTGCCATGACGCACGGCGGGACCGGATTCGCCC  
GAATTGACTCCAGCTCTCCAGAGGTGAAAGGCTATTGGGCAAGTTTTGGA  
TGCATCTACTCAAACACCCATGAACCTACCATTTCCAAAAAATTAATT  
GGCTGCATAAATCGGGCGCCAAG

>603.1

CGTCCGGGAAAAAATTACCTGTCTTGACTGCCATGTGTTTCATCATCTTAAG  
TATTGTAAGCTGCTATGTATGGATTTAAACCGTAATCATATCTTTTTCT  
ATCTATCTGAGGCACTGGTGGAAATAAAAAACCTGTATATTTTACTTTGTT  
GCAGATAGTCTTGCCGCATCTTGCAAGTTGCAGAGATGGTGGAGCTAGA  
AAAAAAAAAAAAAAAAAGCCCTTTTCAGTTTGTGCACTGTGTATGGTCCGT  
GTAGATTGATGCAGAATTTTCTGAAATGAAATGTTTGTAGACCGAGAA  
TCATACCGGGTAAAGCAGGAAATGACAAAGCTTGCTTTTTCTGGTATGTT  
TCTAGGATGTATTGTGACTTTTAACTGTTATATTA

>603.2

ATTGCCAATATTAAGTAAATATAGGATTATAATATTGTATAGGGGTTTTTC  
ACAAAGCTTTAGACCCTTTTA

>604.1

GCGTCCGAGACAATACAAAGTTACATTTTTGGACCATATTAAACTGCAA  
GAAGACAGGGGTCTTACTGAAGATCTTTAGAAAACCTAAATCCTGTCA  
AGGATATTTAGACATGTGTAGAATGTAGCTCAATTTTTTAAAAAGTAACT  
GACCTAGAGGGTGAAAGTTGAAACTGACACATTTTCAAATTAAGATTATG  
CTTTATTTTGTAACAGAAAACAATGTTTAAACACAAGCAGATCTGTTGTA  
TGTAATAAGTAACACAGAGTTTTTAAACAAATTTAATTATTTAGCTTT  
ATTGAAGTTTTGTTTTTTCTTCCGAACCTGGAGTTATCATAATTATAA  
AACAGCAGTTTTACACCAGAATTAGCAGTGCCCT

>605.1

AGCTCCCCGCGGTGGCGGCCGAGGTACCCAAATACCACTTCAGGAAATCT  
GGCCAGATCACCTGAATCCAAATGTTCTATTAATTCAATACACGTTATCA  
AGTCAAATCCAAGCAAACGAGAGTCTCTCTCCACAACGGAGCCATGATAC  
AATGTGATGGTCAAATTCAGATCCCGAGGTTTCAGAAAATCCCCAGGAA  
AGGAGCTAACGAATCCCCTCTCCATCGTAATTTATCCTCATTAAATATCTA  
CTCCAACAAGCAATTCATGCATGGATTGACTTTTAGCAGCCTTAAGAGT  
GAAGTATCACCACATCCAGGTCTGCAACCTTCTTAGGCTCATGTTGATC  
CACTAAATTTTAAACGAACCTGGT

>606.1

GAGCTACCGCGGTGGCGGCCGGGTACTTAAATAATTACTGGCAGTAGGT  
TATAATTGGTGGTTTAAAAATAACATTGGAATACAGGACTTGTGCCAAT  
TGGGTAATTTTCATTAGTTGTTTTGTTTGTATTGAAACCTGGAAA

Table 3

TACAGTAAAATTTGACTGTTTAAAATGTTGGCCAAAAAAAAAAAAAAAAAAAA  
AAAAAAGGTCCGCGGGGGCGGAGGTCAGGGACAAGATGGTGCCACCGGTG  
CAGGTCTCTCCGCTCATCAAG  
>607.1  
GCCGATGAGAAGAAGAAGGGGCCCCAAAGTCACCGTCAAGGTGTATTTTGA  
CCTACGAATTGGAGATGAAGATGTAGGCCGGGTGATCTTTGGTCTCTTCG  
GAAAGACTGTTCCAAAAACAGTGGATAATTTTGTGGCCTTAGCTACAGGA  
GAGAAAGGATTTGGCTACAAAAACAGCAAATTCTATCGTGAATCAAGGA  
CTTTATGATCCAGGGCGGAGACTTCACCAGGGGAGATGGCACAGGAGGAA  
AAAAAAAAAAAAAAAAAAAAAAAAAAGGT  
>608.1  
AGCTCACCGCGGTGGCGGCCGAGGTATGCGGGAGCTGAGAGAACAGACAC  
AGACCTGTCGGAAGGTCTCTGCAGGTCCCCCTTCGCTCTGCCGATCGA  
CTTCCGCCTCGGGCAGTCAACATACTGCCAAGGAAATCTGATGTGGAAAG  
GAAAATAGAAATAGTGCAGTTTGCTAGCCGGACACGCCAACTCTTCGTTT  
GATTATTAGCTTTAGTGAATGGGCTAATAATGCTGGCAAAGTGAAAAA  
TGTGCGATGATTTCAAGCTTTTTAGATCAGCAAGCCATCCTGTTTGTGA  
CACTGCTGATCGCCTGGCCTCGTTAGCTAGAGATGCTCTGGTCCATGCAC  
GCCTGCCTAGTTTTGCCATCCCATATGCCATTGATGT  
>609.1  
GTGGCGGCCCGCCCGGCAGGTACTTCCGCCTTGCCGTTAGCTTGTGGAGAA  
CGTGCTTCTTATTCTGGCAGGCTTCAAGAACAGCTGCACATGTGCCGCT  
AACTGACCGCGTTGCCATTGGCGACCTGGACTCTGAACTCAGGTTTATTC  
TAAACCCAGTGAGAGGTGAGGGGGAGTGATGAAAGGGGATCAGCTGTATT  
TGTGTGTGTGTGTGTGTGAGCACCTGACAAATCTATGAAACCGAGTGAAA  
GGAGAAATGTTAGATTCTTTATTATTTTATTATTTATATGGAAAGCTC  
GACTCTCCCTTTGGTAAGTCCGAAGCATGTTGTCTGTTCCGTCCGTGACTG  
TCTTCTCAGGTCTGTGGCCTGTGATTTCCAGTCACCCTTGTAGTTACTG  
ACAGGAAATTGACTGGACT  
>610.1  
TTTTTCTATATAAAGTGATACTGAAATATGCTAATTAATATATTAATT  
TAGTTAAATGCTGCTAATATGCATACCTCTTACTTGAAGGTTTTTAATA  
TGTTTTGATAACTTTAATAACTTCAGGTGATGTCTGTATAATTTTTAAAG  
TGCAGCTCTCTCTAACAAATGTGCCCTACAACTCCTGATTAAACGGCGTC  
TTGAAGGTTCAAAAAAAAAAAAAAAAAAAAAAAAAAAGGT  
>612.1  
GTGGCGGCCCGCCCGGGCAGGTACCAAAGAAGATGCAGTTCAAATACTGC  
CAGTTTTCCAAGAAATTTTGTAAAGTTGAACATGGCCATCTACTCTTGCC  
TTAAACTTTTCTCACCACACCCACCTTCCCATATGCATGATATCCAAGG  
TCGACAGACCTGGATTAGAATCCACTCTCAAGCTTCTCATGCAGTGCGTA  
TTGTATTTTCTGCATAAGAAAGGGCTGCCTCTAGAACACAGTAAGTGAT  
TTGCCCAGTAGTGACATTGCCTACATATAGCCAAGTGTTATAGTATACCA  
ACTTAGTATATTTTTCAAGGAGAGCTAAACCACCTTTTGTAAATGGTTTGG  
TTTCTCACTGTTATCTTCTTTCTATAATTAATTTATTTTAACTACAA  
ATTGACATAGGGCTAAAAGCTTCAATATTTTACAAATATTAATTAATGT  
AATTGTTCCCAATTATTAGAACTTTTTTCCATTT  
>613.1  
GGGGAAGGAAAGCTAACTCCACGTCTGTTCCAAAGGCCTCTGCTGGTAT  
TACTTTACGAGAGGCCACCTTATCCAAAGAGCTATATGCCCTGGGGGG  
CCTTGATGGGCTTCACACAGTACCTGCC  
>614.1  
AAGAAACATTCTTTATAAATTTTGATCCCTCCGTTCAAGCCAATACCATA  
ATTTAATTACAGATGGATATTATATGGTAACGGGTATTTACAGAAGGAAG  
GGTGTTATTACGGAAAAAGCTAACGGCACGACGTTTATTTTCCCCACA  
ATCTTTTATACAGGAACTAACAAATTGAACTTGCAAAGCACTAAAACAT  
CACATGTAACCCAGCTAACAGAAAAATACATTACAAGCGTTGTTGGTG

Table 3

GTGGTGTGTATGTGTGTGCTATGGGTCAATGTGCTGAAGAAACAGAAGGG  
AGACTTTGGCACGGCTCATTTTTTTCAGTCTATAGTTACATGAAGTTTAC  
AATTAGGTT

>615.1

TTTTTTTTTTTTTTTTAATTTTCCATGTATTGGCCTTAATCAAACCTATA  
AGCTGTGGAGTGGCCAATATACTCCATTGTGATTATACACTGATTTCCAT  
CACCTGCCTTTGTACTATCAACTCTTATTAGATTAAGGA

>616.1

GAGGTACTGTGCCCTCTTTCTTCACTAGGTGACCAGAGTGGTTTTGACTC  
CTGTGGTGTCTGAAGTCATTCTCAGGGGTCTCTATGACCTTTTCCCTCCT  
GCAGTTCACCTCTAGTTTCTTCTATTTTCATCATCCGCACTGCTCTTAGCAT  
CGAAGTCACGTCTGCATCTGGTCTCTACTTTCACATCAGTTTGAAGAA  
TGCATTTT

>617.1

ACTAGCCTAAAAGCCCGTGACACTTGCAGCAGGTGCTTGCCACGCTTGCA  
CCCGTCCGAAAGAAAACGCGGGCTAAAAGCGCGAGTCTGGTGACTTTGG  
CACCCAACCGTGCAA

>617.2

GTTCCGCGTGCCGGCCAATTCAAGCAAGGTGGCAACCGGGACTTGGGCCG  
TTCAA

>618.1

TCACCGCGGTGGCGGCCGAGGTACTGGGACAGTTGGGTGCGTTATGGATC  
ATAACCTGAGGAGCCGGGGGAAGCTGGCCTTGGGTGTTTTACCTCAATCA  
TATATCCACACAAGTGCTTCTCTTGACATTTCTCGAAAATGGGAGAAGAA  
GAATAAAATTGTTTATCCTCCACAACTGCCTGGAGAACCTGAGACCAGCA  
GAAATCTACCACTGTCGAAGACAAATAAAATATAGCAAAGACAAGATGTG  
GTATTTGGCAAAATTGATACGAGGAATGTCTATTGACCAGGCCTTGGCTC  
AGTTGGAATTCAATGACAAAAAAGGGCCAAAATAATTAAAGAGGTTCTT  
TTAGAAGCACAAGATATGGCAGTGAGAGACCATAACGTGGAATTCAGGTC  
CAATTTATATATAGCTGAGTCCACCTCGGGACGAGGCCAGTGCCTGAAAC  
GCATCCGCTACCATGGCAGAGGTGCTTTGGGATCATGGAGAAGGTTTAT  
TGCCATTATTTGTGAAGTTGGTGGAAAGGGCCCCCA

>619.1

ACCGCGGTGGCGGACGAGGTACCTACTATGTGTCAGCCATGGGGGATACA  
AAGATCTATAAGGCACAAGACCCTCAGTCTTGTAGTCGCCTGACAGCCAG  
CCAGCTACAACATAATGTGGAAAGGACAATGGTGGGAAATGCACTCAGGT  
CTTCCTAATGCACAGAGTATGCTCAGGCTGTGACATAGGAA

>619.2

GGACTTGGAGGGACCTTCAAAAAACATGTGATGGTGAGGAAATCCAGTTT  
TAAAAGTCTTGATTTAAAAAAAAGAAAACACTTTCTGTGGATAAAGATAG  
GCTGCAGGAAATGTAACCTATGAAATTTCTCAAATTAGCTTTCAGACAC  
ACACAAAAAATTGCATTTGTTTGAGGAGCAGAATGTAACCTTATATTAAG  
AATAAACTACTATTTAGTATCTGAGTGAAGT

>620.1

GGGCAGGTACATTCTAATTTTTATGAGACATAGATATGTATTTATAAAAA  
GATAGATGGAAAGAGAAGAAATTAACCTTAATTCTAAGAGCCAAATTTACT  
CAGAAGGTTTAGAAACACCAAATTAACAGCCAGTTTTCTTGATTTTCTT  
CTTGAAGAAGAGATTGGTGTGACTATGGTGAGATATACTATGGCCTTGA  
GAGGCAGTTTCAACTTGAAAAGAAGATGCAGGTTGAGCAATCGGAGAGGA  
CTTCAAAGAAGCTGATGAGCTCTCCCGTGGACTTACTTTGACAATGTTGG  
AAGAATCTGGCTGGCTAGTCTGAACTGGAGTGGCTTGAGAACTCTGGGCT  
TCCTTATTCTCAAAGTTCTTTTGTGTTGCAAACCTTTTTTTAGTAACT  
GCAGAGGTATAAACTGATTGTGCACACCCCTGGTATTCCCCAGCCATG  
GGCATGGTCCCGAATATAAAGTATGATGGAAGGGCTTCCAGGAAGTGG  
CACCGATGGTCCCCATGGCATTGAGCCAAAGAGATGAGA

>621.1



Table 3

CGCGGTGGCGGCCGAGGTTAACGACGCCTGCCCATGACAGAGCCTAGGAA  
ATCGCGATGACAGTTTACAGCAGGTAAAATCCGGTGGAGACCAGCAGCAT  
CCCCGAGAAGCCGTGCGATTGTTTGGGCGTATGTAACTCGCTGGTACTCT  
TGCGCCAG

>622.1

GAGCTCACCGCGGTGGCGGCCGAGGTACATTTATTTTACAGATAAGGACAAT  
AAGTTTACTTTGTATCTGAACTCAAAACAAAGTAGTTGTATATTTTAAACA  
TTCAAAATTGGGATTTCCCAATGTGACACATCATGAATGCAAACCCCTCC  
AGCCCATCAGACGCCAGGCTGCCTACTGGTAATCTGTGTATAGTATATAA  
ACATGTAAAAATAGGTTGTATTTTACTCTATGTATGATGCTAATCAATGA  
ACACTTTATTTATTTTACAGAGAAAACCTTATCTGTGAACCTTACTATATA  
TCT

>623.1

CGCGGGGCGGCCGCCCCGGGCAGGTACAGCCATTGCTCTTTGAGTTTGTCT  
GGCTAGCAAAAAGCTGGCTGTGTTATGTAAATAAAGCCCCTATAGTAATT  
AAAAATTTAAAAAAGTTTTTAAAGCTGGCTGTTTTCTACCACTTCAGAG  
TCCTTGACCCCGTAATTTAGGTCCCTTCAGATTTGACAGACAGAAACAA  
ACAACAAAACAGTTAAGCAAACTAACAATGGTCACACAAATTATACAAT  
TTCTGAGTGCTCTAAGTGCAATTGGAAGAAAGCTGAAACTCCATAAAAAACA  
TCACCTGCCTTCCATCATCATGAAAGCAGGAAAACCTTGCCTTCTTGTTG

>624.1

GGTGGCGGCCGAGGTACGGCGGGGAGCCGCCTGGATACCGCAGCTAGGAA  
TAATGGAATAGGACCGCGGTTCTATTTTGTGTTTTTCGGAACCTGAGGCC  
ATGATTAAGA

>625.1

CAGGTACAAACTGATCTTCATGAATGTGTGGTCCACTGCTTTTCTGTTTC  
TGTCACAGTAGCTATAAACAGCTGTTTAAGGATATCCTTATCTAAATTC  
TGCCATGAGGACCAATCGATTTGTTCTCTCAGTGTATCCTTCCAGCTC  
ACTGAGTCTCTCACATAGAGCTCATCCCGCGT

>626.1

GATGAGTCCTAGGAGGCGCTGGCTCTTTGGCGGCTCGGAGGAGCGGCTGC  
TGCTGCTGCTGCTGCTGCTGGTGGCCCCCTTTCAGATGTATTGCTGTCCT  
TGAATATTAGCCCATTTGAAAACGCCTGGGAAGTTCAGCCATCAGTATGT  
CAGTA

>627.1

ACTTTTTCTTCAGAAAAATTCTCCTTGAGGAAAAATGTCCAAGATAAGAT  
GAATCACTTAATACCGTATCTTCTAAATTTGAAATATAATTCTGTTTGTG  
ACCTGTTTTAAATGAACCAAAACCAATCATACTTTTTCTTTGAATTTAGC  
AACCTAGAAACACACATTTCTTTGAATTTAGGTGATACCTAAATCCTTCT  
TATGTTTCTAAATTTTGTGATTCTATAAAACACATCATCAATAAAATAGT  
GGCAAAAAAAAAAAAAAAAAAAAA

>628.1

GGAAGACGGAGGCGGGTTCTACAAGAGACGTAGGCTGTCAGGGAAGTGTT  
TATTTGCGCTCCGCTTCTGTTCCCTCCGCGCCCCCTGTGCTGCTCCGACTCA  
CATACTCGTCCAGAACCGGCCTCAGCCTCTCCGCGCAGAAAGTGCCGGAGC  
CATGGCGGTACCT

>629.1

CGCGGTGGCGGCCGAGGTACAGACGACGTACCGTATATCTTCTTTTCGG  
CCAGTGGAGGATATCACCGAAGAGGACTTAGAAAAATGTTGCCATAACTGT  
TCGAGATAAAATCTATGATAAAGTTCTGGGTAACACGTGCCATCAGTGTG  
GACAAAAGACCATCGACACCAAGACAGTGTGTGCAACAGTGTGTGGTGT  
GCGAGGACAGTTCTGTGGACCATGCCTGCGGAACCGCTATGGGGAGGATG  
TCAGATCGGCATTGCTGGACCCGGATTGGGTGTGTCCCCCTGTGCTGGG  
ATCTGCAATTGCAGCTACTGTGCGGAAGC

>630.1

ACATAGTGTGCGGAACCTCAAATCGGCATTTAGATAGATCCAGTGGTTTAA

Table 3

ACGGCACGTTTTTGCTTATAAAAAAGTGCAAAAAAGATGTGGTTTACAA  
GTTAAAGCTACAGAATCCCTTTTTGCTGTAATTGCACCAGTTTTAAAGCC  
TCTGGACAGAGCAGATCGTTTTAAACTTTGTTTTCTTAAAAAGCTTACAG  
TGTTTTGGCTAATTCTCCTCCCCTTTTTACAAGACGGGGGCGGAGGGTGG  
ACACTGGTGGCAGGTTAAGGGATACTGTCACTTTAAGAAGCCTGCAGATT  
GAAGTGTAACATGGAGAAATTAGGGGCTGATTTTTTAACTGTGTGAGA  
TATTAACCAGCCGCCCTGTTATAAAATCAGGAAATCCAAACAGCGATTTA  
CACCGATTAAACACCCCCTTTATATATTTTTTACAAAAATACACTGAGAAA  
ATAATCAAACGTTTTCATCTCTCTTGTCTTTTTTTGTTTTTAAAGTG  
CAAAAGTCTACATTTAAATAT  
>631.1  
CATCAGCTTGCCTCAAGTCTGGAAAGAAATTGGCTTGGGCTCATCAAGTT  
GAAGGGACCACCAAAGAGCTAAGATTGCTTGTAATACTCATGTGGCCCC  
TAGGATGCACCGACTGGTAGTGATGAGCCAGGTTACAAGCAGACACTGG  
CTAAGAGCTCAGACACTCTGGCGGGGGCACATGTAAAGATTCATCGTTGC  
AACGAATCTTTTATATATCTGCTCTCTCCCTTACGATCTGTGACAATTGA  
GAAGTGCAGGAATAGCATCTTTGTCTTGGGCCCTGTAGGGACTACACTTC  
ACCTCCACAGTTGTGACAATGTTAAAGTCATTGCTGTTTGCCATCGTTTG  
TCCATCTCTTCTACAACAGGTTGCATCTTT  
>632.1  
CGGCCGAGGTACCACACTCAGGGCAGTTTCCAGCTCCTCTCACAAACAGT  
AAATCTACACAACCTTTCACAGAGAGTGTGTCCGCACACATTCAACATCAG  
CTTCAAGGAGGGGTTCCGATATTTGGTGGTCTTACACCGAGGGCAACCCT  
GATCGTCCATGGCGGTTTTCCCTCCTACAGACTCTCGCAGGCGCCTGTTTC  
AGCCAGAGCCACCTACAAGCCCCCTCCCCGCGTACCACCACACTGTCCCA  
AATTACCTCTTCATTACCCAAATCAAAGAATCTTCTGTTTTCCCAATCC  
TCAAAAGGAATGAAGAAAAACCAAAGAGCAAACCTCAAAAGATGATTTTTA  
CCATAAACCTCAAATGTGGCTTAACAAGTACCTGCCCGGGCGGC  
>633.1  
ATTGCTGTTTGTGTTGTTGCTTGAAGACCAAGACGGAGTTGGGCCTCTTG  
ATTCCCAGTGGCTGCAAGAAGTGGGATTCCCTCTCCTTCTCTCTCTCC  
CTCTCCCCCGCGT  
>634.1  
TTGGAGCTCCACCGCGTGTGGCGGGCCCGCCGGCAGGTAAGTAAACCCAC  
TTCCAGAGTCTAAAGCAGCTCAGATGTTATCTCTGGGGGAATTAGTGTT  
CCCTCATTTAGCAACCTCCATACCACAAGGTCTCTGTCTGTAGTTACTGG  
GATTATCCAGATACACTATCAATGATACAAATTCATAGGAGTATTAATGC  
ATTTCTTTAAACACAACCTTGATTAAGAAGCAAATATGTTAAGCAGTTTTT  
TTTTCTGCTGCTAAATTACAGTTAGACACTTCAGTATCTTCTTTACA  
TGTGTATATAAATTAGTAAGAACCTGCATCCAAAGCAATGTAGTGTGTGT  
ATGTATCTATATATATTTATTCTAACTCAGCACTTCAGAAAGCCTTTTTGA  
GTTACAACAATATTTTAGTTTGCCTCATCTGTAGAGGTAATTTCTATA  
TTACCAAGCTCCAGAGGAATATGATATTTTACAGGCACAATTTTCTGGCT  
GTAGTCCCTGGGGCATTATTTGCTTGCCTCCATGGGATGCTGTTAGAAC  
AATTGTTAGCCGGCAAGAGAAGAAAGGCTACCAGGACA  
>635.1  
CCGCGGTGGCGGCCGAGGTACAGATGATGAAGCTTCCAGAGCTTATCTGA  
TCTCTTAGACAGAATCACATAAACACACAAATACAAGAGGTTATTTTCA  
AGACACACACTTGCAAGTAATCTTTCTATAGAAATGGCCACAGCATTATA  
ATATTCAAATATGGAAGATTGACAGTCTGAGGATTTCTAGGAAAAAAA  
ATCAAAGACTTGCCAAAAGGATAACTACATAACAGATATGACAATCTAC  
AGGACAAAAAGACAACATGTCACCAAATATTGTTTCATACAACAGCGTTAA  
TGGAAAAACAGTAAACACCTTTTAGCAGTGTGCATGTTAAGTCTTTTGT  
AAGATTATCTGTAATGAGGTTTGAAAGTAAATCACTTAGTAGACAAAGTA  
AACCACCACAGAACCAGGAATAGCACCCATCACTGCTGCTTTGTCACTCC  
AGAAAGCTGAAAGTCAACCGAACAATGAAAAAAGTCAAAGAAGCATTTT

Table 3

CCTTTGAATTCAGTCCTAAAAATATGAATGCCTTATAATTAATTTCAAAA  
TAAGTATCTTACAAGTGTTTCATGAAACATTGTTTTCTAAAAAGGCAAAT  
TCAACATTATGAAAATATATATTTTGCCCGGTAGTACTGAGAAATGTC  
>636.1  
CGGTGGCGGCCGAGGTACTAAAGGGCAAGGTTCACTACTACAAAAAGGAA  
GTTGTCTAAAAGCAAGAATTCAATTAACGCTGGGTAAGAAAAGTCAAAAC  
ACTAATGAGTTGTCCATGAAGCCAACTGCTAAGAACGCGCTCAACTATAC  
GCGACATGAAGACACTACGCACGAAGCCTTACTTGGCGAGTCTGAATTC  
TATTAATAAGGGCAGAGTGAGGGAGAACAAGAGCTACTTCCGTAAACAT  
TTAGTATCCAGATAGT  
>637.1  
AGCTCACCGCGGTGGCGGCCGAGGTACAGGAAAGGGAAGCACAGTTTGA  
ACAACAGCAGAGATATATGCCTATCGAGAAGAACAGGATTTTGGAATTGA  
GATAGTGAAAGTGAAAGCAATTGGAAGACAAAGGTTCAAAGTCTTGAGC  
TAAGAACACAGTCAGATGGAATCCAGCAAGCTAAAGTGCAAATTCCTCCC  
GAATGTGTGTTGCCTTCAACCATGTCTGCAGTTCAATTAGAATCCCTCAA  
TAAGTGCCAGATATTTCTTCAAACCTGTCTCAAGAGAAGACCAATGTT  
CATATAAATGGTGGCAGAAATACCAGAAGAGAAAGTTTCATTGTGCAAAT  
CTAACTTCATGGCCTCGCTGGCTGTATTCTTATATGATGCTGAGACCTT  
AATGGACAGAATCAAGAAACAGCTACGTGAATGGGATGAAAATCTAAAAG  
ATGATTCTCTTCTTCAAATCCAATAGATTTTCTACAGAGTAGCTGCTT  
GTCTTCTATTGATGATGATTGAGAATT  
>638.1  
GGTGGCGGCCGCCCGGGCAGGTACGCGGGAGAAAACCTAAACCTTCATTTA  
CTGTGAACATCTTCTGACTGTGGCTTCCAGATGCTAGTTTACAGAACAAC  
CACACAGCAAGACCAAGCTTATGCTGAGTTGACGGAACAATGAGTAAACA  
TAAGGATATTACTGTGACTTTGAAATTCGAAATTGTTCTTTCTTAACTT  
TTGCATTAATAACATTTATTTTATAAAATAATG  
>639.1  
CGCGGTGGCGGCCGCCCGGCACAGGTCCTGGCCCTTAATCCCATCAGATT  
TGAGATCTTAACCAGGCAGTCACCGAGGCCTCGGAAGTCCCTTTCAGCT  
CCAGCTTTACCCACATCAGCTGCTAGACGGGT  
>640.1  
CGCGGTGGCGGCCGCCCGGCAGGACGCGGGGGCTGTCTCACCGGTGAGAC  
CTGGAAGCGGGCGAGTCTCGTGCTGTGTCGGACCTGCAGTCCCTGGCCTT  
CCGCCACCATGGAGT  
>641.1  
ACGCGGGTCTTCAGAAACCAGGCTGCTTTCAGGAACATTGCTGTGGATTG  
CCAGCTTTCAGACAACACATGACTAAGACAGAATGAGACCACTCTAGTTG  
CCTCATGGGAAACTCGGGAAAAGACTGCAAAAACAACATTGTTTCTCCCT  
TTGGAATTCTGGAGTTATAAGGCAGAGGTCCCCATCTTCCCGAACTGGC  
CTATTCCGCTAGAAGCAAGATGGCTGAACTCAATACTCATGTGAATGTCA  
AGGAAAAGATCTATGCAGTTAGATCAGTTGTTCCCAACAAAAGCAATAAT  
GAAATAGTCCTGGTGCTCCAACAGTTTGATTTTAATGTGGATAAAGCCGT  
GCAAGCCTTTGTGGATGGCAGTGCAATTCAAGTTCTAAAAGAATGGAATA  
TGAC  
>642.1  
CGGGGGCGGCCGGGACTTGGAGAATATTTCCACAATAGCCGATGACTTGT  
TCTTGTGACAAGAGAAAGTTCTTTGGCTGTTACCCTCAATGATAGTGAG  
GTCCATTGCCGTCTATTAAATGGAGATGATTCCATCTTGTCTACAGACAC  
TGAAATACCTGGCTAAAAGCCGCTTTCTCTGCGCTGCTACCAGCCCTG  
TCAGAGGTCCCGGCGCTCTACCTCCCCGGGT  
>643.1  
TGAGCTCCCGCGGTGGCGGCCGAGGCACGAGAAGCTCACTGGCTGTGCTA  
AACCAAATGAATGGAAAGCGCCAAAAGTGATTTTATACCAAGGGTCCATC  
CATACAAATAAACAAAATCCTATCCTCTTCTTCTATATTGTGTTTCTTA

Table 3

CATTTCTTATACAAATAACAGAATGCTTCATTTTATTCACCTTCAATAGGA  
CAAAGTCCTTAAAGAAAGACTGAAAAGAGCTGATAATCAAAATCCCAAAT  
TTTATGCTTATTTTTGGTTTAGGGCTATCAATTTCTGACATATTAACAT  
AGGCAGGAAAACATTCTCAGTAAATTGAGCATTGAGTCTACAAATGTCT  
TGAAGCACTCTGGCAAGTTACATGTATCCCATGTTGCTTTTGGTTTCCCA  
TCTCTTCTTTGCTTCAAACCCCATGCAAGTTTCTTCTTTTTCGGGCAG  
GCTGTGAATATTCAACCTCCTTTTTGGCTTTTACAAAGGTGTGGCAGGCA  
ACTGCTTTGGCAATTTTTAC  
>644.1  
CGCGGTGGCGGCCGAGGTACACCCTCTGGCCTCTCCAAGCAAGCAGTGAG  
GTGTGCATTGTTAGAGGTGCACCGGGAAGGGAGCTTGGTTTCGGACCCCA  
GGACATCCTGTCCGCAAGCAGCTGCTACTTCTTGGGCTTCTCTAGAATAT  
TGAGGAATTTCCCCCGTGTCTCTCTGGACTCATCCAGCCCCAGCTGA  
TAGGCTAGGTTCTGTAGGCCTCGAACCTTCTCCATCAAATTAGCCGTGGT  
GAGACTCCCCAGTTCTTTCAACATGTCGATGTCATCACGTTCTATCTCAG  
CCATCCATTTGGGTGGAGAAGTAGTAATAGGACTTTTGAAGGAAGCTGCA  
AATTCAGCAACACCTGGTAATTGTTCTGGCCAAAGATCTGGTGAGGCACG  
GTCAAGTTTTTCAAACCTTAGCAAAGATGCTTCCAGATCTGTCCCGTCTG  
TGGGAGACGCCATCTTCCAACCCATGTCACGTCCCCGCGTACCTGCCCGG  
GCGGCCGC  
>645.1  
GAGCTACCGGGTGGCCGGCCCGCCGGGCAGGTACTTCAGGGAGGCCTAT  
ATATTGGCACCCAAGGAATGCCAGGACTGCCACCTGCTGCTCCAGCGTTA  
GCCTCACTCGTGTGCTTACTCACTTTGACTGCCTTTTTGTCTATTTCTGG  
GAGGTTGGTAGAATGAAAGGGATGCTCCAAGGCAAGCAGATGGCCTGTCC  
ACCTCCTATATATTGACAGTGCCAATGAGTGTAGAGTCTTGCTACAAGAA  
ACAAAGTCATGAGAAATGCCAGGCTTCTGTTACACCCAAAGACTGCTGG  
CCCTCCTACTCTATCCTTTAGACCAGAACTTTTTCTTCTAAGCACTTGC  
CTACCGGGAAGGTTGAGGAGTCTTGTTTTACCGT  
>646.1  
GTGGCGGCCGAGGTACCGGCCAAGCCTGGTCCCTTCTTGTTGGGCACTG  
TGTATGGGCGGAGAAAATCCAGCTTGTTCTTGCTGATGACGCAAAGGTCA  
ATGTTGCTTCCGGAGCCCAGGTCGTTGAAGATGCCAGCTGCGATGGCTTC  
GCTCACCAGATTCTAGGCTTCTTCTCCTCCATGTCTGGCCTAACTTAT  
CTTCAAATACAGACCATTGCTGCCAAGGAGACCAGAACCCATGGTGACAT  
AAGGCAACTTATCAGTTTGATCCATGAGGATAGATGCTGTAGAGGTGAGG  
TCTCAGTTACATCTACTTCCCCCTAAACTAGGGCTGCACCAATGTAACC  
TTGATACCTGAAAAGCATCTGCTTCAGCATCCGATTGGCTGTCACAACCTC  
TGGGAAGACGGCCAGTGAGAGGGAGTGAGCTCCAGGTTGGAAGAAATG  
AGCTGGGTTGTCATGTCT  
>647.1  
TGTCAAAATATTAAAGCTTTTTTTTAAATTGGGAACACTCAGGATATTGG  
GATAATTAATTAGGCAATGATTCAAAGATGTTTGGTTTTAAATTCAAAA  
CCCTCCAAAGG  
>648.1  
CGGGGGAAACCCCCCTTTTGGGGTTTTTCCCCACGGGGACCAAAGGTT  
AACCCCGGGGACCCCGGGGGGGGGGGGCCCAACCCCAAGGGTGTTAA  
ACACGGGTTGGGGGGGGGAAAAAAGGGGGGCCAAAGGGGCCCCCCCCC  
CTTTTTCCCGGGGGAGAAAAAAGGGGGCCCCCCCCCCCC  
>649.1  
GGCTTTCCACCAGGCCATCTCTTTCACCTTCGGGGGCACCTTTCCAGGGA  
GATGAAGAGACACAGGTTGGCCTCTGCTGGGACTCCACATGTCTCCCCGC  
GT  
>650.1  
GAGCTCCCCGCGGTGGCGGCCGAGGTACTGAGTGGGGAAGAAGGTAAGAA  
ACAGTTGATTAAACACCCTGTGTTCTGGCAGGTGGGATCAGCAATATGTAA

Table 3

TCCAACCTCACCTCCATGTTCAAGGATGTCCCTCTGACTGCAGAAGAGGTG  
GAATTTGTGGTGGAAAAAGCATTGAGCATGTTCTCCAAGATGAATCTTCA  
AGAAATACCACCTTTGGTCTATCAGCTTCTGGTTCTCTCCTCCAAGGGAA  
GCAGAAAGAGTGTTTTGGAAGGAATCATAGCCTTCTTCAGTGCAGTAGAT  
AAGCAGCACAATGAGGAACAGAGTGGTGACGAGCTATTGGATGTTGTCAC  
TGTGCCATCAGGTGAACTTCGTATGTGGAAGGCACCATTAATTCTACACA  
TTGTGTTTGGCATCAAATTGGACTATGAACTAGGCAGAGAAGCTCGTGAAA  
CACTTAAAGGTAGGACAGCAAGGAGATTCCAATAATAACTTAAGTCCCTT  
CAGCATTGCTCTTCTTCTGTCTGTAAC

&gt;651.1

TGAGCTCCCCGCGGTGGCGGCCGAGGTAAGTTCGCTTATGCAGAGGTGTCCA  
GCCCCCTTCTCTTCTGGAATTAACATTGGCTCCACCTTCCAGCAATT  
GCTGGACAGGTCAACATCTTCGTTTTGAACAGCTTTAATCAGCAAGTGA  
TTGTCTTCCACTGCAGCCCTTCTACCGCTGGAGGACGTGGGTCCCTCCTG  
GGGGTTGTTATGATCCCTGCTCTCCATGACGGTAAATGCCACCTGCTACC  
ACTTTTAGCCTTTTCTTGGAGAAAATGCAAATTTATCTCCTAGCACTTAA  
TCAAAGAAGCTTTGAGTGTAATTGGGATTCTCTGGCAACAGAGCAGCAG  
TATGAAGAAGGAACAATGTTCTCAGTCTTCTGACATTCCACCTGCTCAAC  
TCAGACGTCTCAATTATTCCTTTGGCAGCCGCAAAGCCTGGAAGACTGCT  
TGCAGCCCAGCAGTTTCTCCTGCTGCCTCCGCGTACCAGTGAGGAAGG  
AAAGAGCATTCTCCTTTAGGGCAGCAATCAC

&gt;652.1

ACGCGGGGAGGGCCAGGTCTCAGGGCTCCTGGAGCTGCAGGCGGCGGGAG  
GGGCTACAAATGCTTGACTCAGTGATGCAGAACCTTTCAGAGTTAGCTGG  
AAGCCACAGCCCTGCCTCTTGATGCAGCCTGGATCCAGCCGGTGTGAAGA  
GGAGACCCCTTCCCTCTTGTTGGGGTTTGGATCCTGTGTTTCTAGCCTTTG  
CAAACTCTACATCAGGGATATCCTGGACATGAAGGAGTCCCGCCAGGTG  
CCAGGTGTATTTTGT

&gt;653.1

ACCTGTGAACTGAGGAATTATAGATAAACCTTAGGTCAAATCATTTGCA  
ATTGCATTGGTGGTATTGAAAAATGATGAGATTTCTCTGACAGAGAGCTT  
TGCTCCTAGTTTTTGTCTTCTATAGGTCAAACCTGGCAATATTCTCTTGT  
TGCAAGATAAAGTGTTTGTGCTTCTATCACCATATGCATGAACATGTAAG  
AATCAGATACAATTTCTGCTTCATCAGTTTCACATGTTTCTGTTGTCAGT  
GAAAAATGCATCTACTGTTTATAGCTCCCAAGGAGACCCCAA

&gt;654.1

ACCGGGGGCGGCGAGGTACCTGTTACCACTTTAAAGTAAGTTCTCCATC  
CCATAAAGCCATTTAAATTCATTAGAAAAATGTCCTTACCTCTTAAATG  
TGAATTCATCTGTTAAGCTAGGGGTGACACACGTCATTGTGCTATATGTA  
TGTGACTTCCCTCCCCCTGCCAGAATACTCCTTGGTCAATTGTAGGTATT  
CTTTTTGGTTTAAATTTTGGCAATGTAATTAATAAATGGTATGTCATTTT  
TAAATTTGTATTTCTTTCATTACAAATAAGATTGTTATGTCAGTATTGT  
TATTGGCTTTTCGTATTCTCTTAACGTGAACCGTCTGTTTATTGTTTTT  
ACCTGTTTTCGTTTTAGCAAGTAGT

&gt;655.1

GTGGCGGCGGAGGTACGCGGGGGAAGTCGGCCATGGACTGGAAAGAAGTT  
CTTCGTCGGCGCCTAGCGACGCCAACACCTGTCCAAACAAAAAAG  
TGAACAAGAATTAAGATGAAGAAATGGATTTATTTACAAAATATTACT  
CCGAATGGAAAGGAGGTAGAAAAACACAAATGAATTCTATAAGACCATT  
CCCCGTTTTTATTATAGGCTGCCTGCTGAAGATGAAGTCTTACTACAGAA  
ATTAAGAGAGGAATCAAGAGCTGTCTTTCTACAAAGAAAAAGCAGAGAAC  
TGTTAGATAATGAAGAATTACAGAACTTATGGTTTTTGTGTTGACAAACAC  
CAGACACCACCTATGATTGGAGAGGAAGCGATGATCAATTACGAAAACCT  
TTTG

&gt;656.1

TGGCGGCCGCCGGGCTGGTACGCCACAAGGCATTTAATGCCACAGTAA

Table 3

CAGGGCTGTTTGACAGTGGCAGAAGAGGACGGGACTAAAGTTACTTTGTG  
CTGAGAGGGGGAAAGAAGCACAAAGTTTGGTCTGTTGCGTAATTGAATTT  
TTAACACTCTTATCCACAACAAACACTTTTTCGTGTCTGCTGTGTAAAA  
GACATGAGATATATTACAGATTTTCAAACAGGTGAGCATCCTTTTACGAG  
CTGGGCAGGTGGGGAGTGGCGTGGTTTTGATGGAGTGAGGAGATTGGAT  
GAATGAACGCTAAGATGGCCAGACGCACCTCTTGGATCGTAACCTCTGCAG  
GCTGGGATTCCAGAGCTGCAAAACAACCACTGAATTCGATCTGTAAACCTG  
TTGTCAATTTGACGTTTGCAGGCAGGCATCAACATTTACATTGAGATTCAA  
TAGACGCTACTACTACAAAGGAGCTTTATTGTTGCAGCTTAAAATGGTTG  
CTGCGGGAACACTGAAGGGTGAAACTGACTTTTT  
>657.1  
CTCCCCGGGTGGCGGGCGGGTACATTCCAATGAAGAATTTCTTCATTCTGA  
TCTCCTAGAAGACAGCAAATACCGAAAAATCTACTCCTTTACTCTTAAG  
>658.1  
TTGTTATACACTTTTCAAAAAGATTTTATCTTTGATCTCTTGGCGATCTT  
CTTCTTGCCCATGGCAGCTGTCACTTTGCGGGGGTAGCGGTCAATTCCAG  
CCACCA  
>658.2  
CTTCCCAGGTTTCATGAACCTTGCCCATTTGCGCAGCAACCACCCCGGGGC  
>658.3  
CGATAACCCGTCGGACCCTCGAAGGGGGGGGGCCCCGGGTTACCCCAAGC  
TTTTTT  
>659.1  
GGTGGCGGCCGCCCGGGCTGGTGCGCCACAAGGCATTTAATGCCACAGT  
AACAGGGCTGTTTGACAGTGGCAGAAGAGGACGGGACTAAAGTTACTTTG  
TGCTGAGAGGGGGAAAGAAGCACAAAGTTTGGTCTGTTGCGTAATTGAAT  
TTTTAACACTCTTATCCACAACAAACACTTTTTCGTGTCTGCTGTGTAA  
AAGACATCAGATATATTACAGATTTTCAAACAGGTGAGCATCCTTTTACG  
AGCTGGGCAGGTGGGGAGTGGCGTGGTTTTGATGGAGTGAGGAGATTGG  
TTGAATGAACGCTAAGATGGCCAGACGCACCTGTTGATCTCAACTCTGC  
AGCCTGGGATTCCAGAGCTGCAAAACAACCACTGAATTCGATCTGTAAACC  
TGTTGTCATTTGACGTTTTTCAGGCAGGCATGAACATTTACATTGTAATTC  
AATAGACGCTACTACTACAAAGGAGCTTTATTGTTCCAGCTTAATATGGT  
TGCTGCGGCAACAC  
>660.1  
GTGGCGGCCGCCCGGGCAGGTACTATGACCTGAAGAGGCAGAGGCCATCA  
CTGTTGGTCCGGTCTCCACCTGGGGAAACTGAGGTTGCACAGTGTCTCTG  
TGGTGACGAGCAGGGCTTCATCCAGTGCTCTGTCCCCACCGAGGGGACT  
ATGGGAGACATGGAGGGTGTGTGAGCAACAGGTGAGACTGGAGCCAGCTG  
AAAACCTGGGAGACCGACCCAGCCAACAACAATGTCGGTCTCTGTCTTGG  
CACCTGCAGGAAACAAGCTCTACTTCCAGAAAAAGTGCTCCTGGGACTC  
CAGGATACCAGGCATCTGGGTAAGCTACAATGCTTAACCACTTAACACAA  
TCAGGAAGCAACAGCCATGCATTGCGGAAAGGAACTTCAGTGTTGTGTGG  
CTCAGTCTCCAGACCTAACTTTCTTTTGGTACCTC  
>661.1  
GCTCCCCGCGGTGGCGGCCGAGGTACGCGGGAGAGACTTTTTTCTCACCA  
TGAATGTCACCCCAGAGGTCAAGAGTCGTGGGATGAAGTTTGCTGAGGAG  
CAGCTGCTAAAGCATGGATGGACTCAAGGCAAAGG  
>662.1  
TTTTTAATTTATTTAGGGGGAAGGAGGGGTGTCTTTGGATATACCACAGC  
GAGGGCTTTTGGGGGGTATCCTGGGGCATGGGGGTGAGGGGTGGGGTCT  
TGGGGAGGGTTTTAGGGGCCCGGGTC  
>663.1  
ACCGCGGTGGCGGCCGAGGTACTTGTGGAAGGTAGTGACCAGCACAGCCA  
GCGCCTGCTCCAGAGAACTGCACATCATGGATCTGTGGCAGACCAGGTGG  
CAGAGACAGACCCAGGAAGGAGAGCAAGGCCCCCGCGT

Table 3

>664.1  
GCGGCGCCGGCAGGTACGCGGGGGCGGTATCTGTATCGGGCCTTACTGGC  
TTCAAGAGCCGAATTCCCTTCCAAGCACCCACCAGGGGGACCCCAATTAA  
GGGTTTGGGACCCACTATTTTTTAATAACGCCAGCACCTTAAAATGCCTG  
GGAAGATGGTCGTGATCCTTGGAGCCTCAAATATACTTTGGATAATGTTT  
GCAGCTTCTCAAGCTTTTAAAATCGAGACCACCCCAAGATCTAGATATCT  
TGCTCAGATTGGTGACTCCGTCTCATTGACTTGCAGCACCCACAGGCTGTG  
AGTCCCCATTTTTCTCTTGGAGAACCCAGATAGATAGTC  
>665.1  
GAGCTCCCGCGGTGGCGGCCGAGGCTAACAAGGAAAGCCCCTGGAGCTCC  
TGTAATAAGAATGTGGTTGGAAGATGCAAAGTGTGGATGATCATCACCTC  
CATTTTCTAGGTGTCATTACAGTGATCATCATAGGCTTATGTCTTGCTG  
CAGTAACCTTATGTTGATGAAGATGAAAATGAAATACTTGAATTATCATCA  
AACAAAACATTCTTCATCATGCTGAAGATTCCAGAGGAGTGTGTTGCTGA  
AGAGGAATTGCCTCACCTGCTCACCGAAAGGCTCACAGATGTGT  
>666.1  
GTGGCGGCCGCCCCGGGCAGGTTTAACTCTCAGGTCTCCCTATACACTTCTC  
AGCCTCAGCACCTAACCTCACACAACACTCCAGTATTGGATGCAGTCAA  
TCTTGATAACATTTTTTGAATGTCCAATGTGCAAAGCACGATGTTGGAA  
ATTATACAGAGGTGAATAAGACAAAAACTCTTGCTCTCAAAGATGTCAGT  
CTTTTTCTTGAAGGATAACACA  
>667.1  
GCGGCCGAGGTACTGGAGAGTCGGCTTTGACCATGGCCTCAGCTCAGCTC  
CAGGTTTGGAGCGGAATAAAACAGGAGCTAGCAAGATGTCTCATCTGAGC  
TTCCAGTGCCCAACTTATCTGAGGCCTGGGGCTGAAGCCAGCGCTGACG  
GA  
>668.1  
GTGGCGGCCGCCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTCTGGTCGA  
AAATTTTTGTTGGAATTTTAAAGAAAA  
>668.2  
GAAAGGCAAAGTAGCACTCAGATGGCCTTTTTTTGTAAAGTGAAGTCAAC  
CTAATACTCTGGTGCTTACTTTGCAAATCTTTTCCATAAGTCAAGTATTA  
GTGTTAACAATACTTAAGAAGTAAGGATAAACCCATCAAGGTCCACAG  
CTAAATAACACAGCAGATTCCCAGAACTTTATGTATTTGGGAAAAGTAA  
ATATACAACAGACATATCCCTGCCCTGATTAAGAGGGTAGATAAAAAACA  
AACATAAAACAATTTTACTTGAGATAGTAATAAGTTATTTGAAAAAATA  
CAACAGAATATAGGGAGAGAGAGCAACTACAGAAAGAAGACAGAAGGGGT  
TCTGCTTTGAATAGTAAGGCTTGGGAATAGCTGAAT  
>669.1  
GGCGGCCGAGGTACAGAGTAGGATCAATAAAATCTGTGTGTTACAGCGGC  
AGACTGAAGGACGGGTGCCTGTTTTAGCCATGAGGTAGTCCCTGACCAT  
CTGAGAACCAAGCCTGACCCTGAAGTGGAAGAACAGGAGAAGCAACTGAC  
GACAGATGCTGCCCCGATTGGTGCAGATGCAGCCCAGGTTGACTGAGTC  
ACTGCCCTTGCTGCCCCATCCCCATCCCATCATGAGAAGCTAGGCATTACC  
ATTCTGTCTAGTAGGGATACATAGTTGGTTGCGCCTAAGTTGCTTCTGG  
CAGAACCCAAGGAATAAATTTCTCCATATCGTTTCTAGTTACCCTAATC  
TCTGCACAAATTTGTGTGTTACAGAAGCAGATCCAGAGCTTGAATAAAAT  
GTGTTCAAACCTTCTGGAGAAAATCAGCA  
>670.1  
TGGCGGCCGCCCCGGGCAGGACATTCTTTTTTTTTTTTTTAACTTTTAGG  
GTCTTGGCCTATTGCATACTAAAGGGCAAAGGCTTAGAGATATCAAAGG  
GGCTAATTTTTTATTGACAGACCATGGCGATGTAAAATTAGCTGACTTTG  
GTGTGGCTGCAAAAATAACAGCTACCATTGCAAAACGAAAATCTTTCATT  
GGACCCCTTACTGGATGGCCCGAGAAGTTGCAGCAGTAGAGAAGAATGG  
TGGCTACAACCAACTCTGTGATATCTGGGCAGTAGGAATAACAGCAATTG  
AAGTTGGAGAAGTTAGCCACCTATGTTTGGATCTCACCCAATGAGGGC

Table 3

TCTCTTCTTAATGTCAAAAAGTAATTTTCAGCCTCCAAAACCTAAAGGACA  
AAACAAAATGGGTCATCAACATTCCATAATTTTGTCAAAATAAGCACTA  
ATCAAAAAAAAAAAAAAAAAA  
>671.1  
GAGCTACCGCGGTGGCGGCCGAGGTACGCGGGGTCTTCTCATGCTCCGTG  
ATGCATGAGGCTCTGCACAACCACTACACGCAGAAGAGCCTCTCCCTGTC  
TCCGGGTAAATGAGTGCGA  
>672.1  
TCGAGCTCACCGCGGTGGCGGCCGAGGTACTCTTCTGCACTGTTCTTTCT  
TTCTAATAAACTTTCTTTTTCGAACCTATACTGTCTTCTGTAAATTCTT  
CTTACTACCCTATGACCCGTGAGCCAACCACTTTCCGATGCCAGGGTTCT  
GACACCTCACCTGGCATAATATAAAGTGTTTTTTTTTATACCCTTCCAC  
TTGGAAAAGACTACAGAGGAATCTTGCACTGCATAGTTCAAACCTAAAAGA  
GAAGAGTTAATTACCTGAAAAGCAAGAGAAAACAAGAAGGGGTAAATTTT  
GAACCAAGGGAAATCATTTAAGAAGTGTCTGGTATTTTCAAATTTCTGT  
CAGTTGTTACATTTGTCATAAGTAAATGTTTAGGAATAAAGGATGGAGAC  
ATGCTTATTTTATTTAACTCCCCC  
>673.1  
GGATTGAGCTCCCCGCGGTGGCGGCCGTCCCTCTTAATCATGGCCTCAGT  
TCCGAAAACCAACAAAATACGAACCGCGGTCTATTCCATTATTCCTAGC  
TGCGGTATCCAGCGCGGTCTGGGCCTGCTTTGAACACTCTAATTTTTTCAA  
AGTAAACGCTTCGGGGCCCCGCGGGACACTCAGCTCCGCGTACCT  
>674.1  
GGGGCGGCGAGACTGAGCCACACAGTGTCCGGATGGAAGTCTGCATCTGA  
GGTTGCTCAGTGTCCCGGTCAATTCATTTACACATTTTAACTTGCATTAA  
GAGCTGTTCTTTTCTGTGGCCTAGACTCTTTTCACTGATCTCAAAAT  
>674.2  
CTAAAATTACATGGAGTTAGTGTCTATTCTTTTCCCCCTTTTGCAGCAAC  
TTACACAGCATTTTTAACACCTTTTTTTCTAGTTTTTTGTTGCGTTTT  
GTTTTCCATCAGGAATTTGAGTTCTCTCTAACCCAGCTTACTGTGGGACA  
TAGGAAAACCTCAGTAGAAATACCTTTGGTGATCTTGTTGAGTTTAAGTCT  
GATCTTGATCTTAACTCAGTAAGCCACTATCTGCAATTTTGT  
>675.1  
AGCTCACCGCGGTGGCGGCCGAGGTACGCGGGGCTGTAGTGGCTTCGTCT  
TCGGTTTTTCTCTTCTTCGCTAACGCCTCCCGGCTCTCGTCAG  
>676.1  
AGCTCACCGCGGTGGCGGCCGCGAGAGCACAGATGACCACGCCATCGTCC  
AGTATGAGTGGGCACTGCTGCAGGGGGACCCGTCACTGGACATGAAGGTA  
ACGCATGTTGTCACTGCTGGCAGCTAGGTCTGCTGGGGCACACCGAGCCT  
GTGAGGGAGGGAGGCCAGCATGCGGTGCT  
>677.1  
TGAGCTCACCGGGTGGCGGCCGCCCGGGCAGGACGCGGGAAGGATTCTGT  
AGTATGTAGCGTGTTTCTTAGGTAAAGTCTCTTTTGTACTGAAAGGGA  
AATGGTCTCTAAACACTGGTCACTGTAGCAGGTAAACACTACTCTAACGT  
GGAGAAATGAGCTTCATGCTGAGGTAGTGGTTGCCTTAAAGCTGTTTTT  
ATGCTGTAAAAACCAAAATGGGTTTGGT  
>678.1  
CTCCCCGCGGTGGCGGCCGAGGTACTTGTGGCAGACGTCGATGATCGAGT  
TCAAGGCTGTCTCCAGCTCGGCCAACATGATGCCACGGAAGTCCGCCAC  
CAGGTCTTGTGAAAGACAGCTGACACGAGACATCCCCGCGT  
>679.1  
CGGGTGGCGGCCGCCCGGGCAGGTACTGGTGTTGTGATCGGAACGTGTGCG  
ATCCCCCTTCTCATCACTGCTGCTCCAACCTGGATTTATTAATCCGGGAA  
TGGTCTGAGGGGGGAAAACCAATGTGTTTAGCGTGCCTGCCACCTGCGCC  
TGAGCACAACCTATCCTGCAATCTGACCTGCCCTCCTGCACAGGAAACCA  
CCTTCCCCCTCCAATTGATGGTTCAAACACTGCCACCGCTGACTGCCCTG



Table 3

CATCTGTGGGTCTGTAGAACAGAAAGGCAGAACAACTTATTTTTTAGGAT  
TTAACGACAACCGGTTGAAAAAACGGTAGGGTGTCATGCTCACAGAGAA  
TAAAGATTTGTAGAAAAGGTGCTGAACTGCCAAGGAAGGCATTTCTTG  
CCGTGTCTGGAACCGTGTATCCTTACTACATCACTGAACGACACCAAGCA  
CCCCATGCACT  
>680.1  
AGCTCCCCGCGGTGGCGGCCGGGTACAAGGGGAGGTAAAGATGGGAGCTCC  
ACTCCTTGGAACACCAGCTGGTCTGGACCGTATCCCCATGAATCTGTTT  
GAACGTAAGGAGGAAGTCAAAAAAGTTCTTATTTAGGGTTTCTTTGAGAT  
GTGGGGCCACTTCCATTCCCACCCGGCACAGGTAGGCACGGGCATACACC  
GACACTAGTGGGTCTCCGATCCCTCTGATCATGCATGTCAACCGGGGCAG  
GCACTCTGAAATTCCTGTTTTGGAGAGGAATTTGTTACATTTCAAGATGG  
ATGCCTCCACGTAAAATCTTGAATGAGTTCCTGATGGAGGCAATCTTG  
AAAAACCAATTTAGGCATGTTTCTTGGCCGTGTCATTTGCATTCTCTGG  
AGAAAAGTGATCTGGTAAGACGCTGCGGCTATCCACACACATGGAAAAGA  
TGCGCTCGTACCTGCCCCGGGCG  
>681.1  
TGGCGGCCGAGGTACCCTAATGTAGTAGTAAATTTAAGGCCTGTCGAGGA  
AATTTTAACACTTCCAACAGGTGACTATATCAGGAAGGAGAAAACCAAGT  
GCTTCCTGCTTCACTTCTGCTGCTTTTGGGACTTTTTATGAGCTAGTTA  
GCTAAGGACAAGACCCTGAACCCATTTTTCACTGGGAGAGGAAAACCAAC  
CAGGCTTCTCAGCTTTGGCTTGGCAACTCTGGAGTTCCTATGGCTTCCAT  
CAGGGCTCCAGGACCCTGATAAGTGGCCTCAGGCAGGAGGAGATCGGGAG  
CGGATGGGAGAGCTAGTCAGGAAGGTGGAATAGGGACCATCCCCAAACAC  
GTTGGCGTATGATGATTTGAGGAAGTGGACGTAGTTCTGCATGCTGCGGT  
TGGAGCTTTCGGACTGCTCCAGGCGATCTTTCAGGTCTTGCAACCGGCTT  
TGGTAGCGG  
>682.1  
TTGAGCTCACCGCGGTGGCGGCCGAGGTACTCTCGTTTCAGCTGGGCTCT  
TATGGCCAACCGCTCGGCTTGGCGCCCGCGGGTTCCGGAGATATGTTGT  
ATTCCGCTGGGTGAGGGTCTCAGGCAGAGTGCGCAGGCTCGACGGCTTA  
TACTTTGGGAACGACATCTTGGCGAACCAGGGCACAATTGCGCCTGCGCG  
ATTCTGAGGCCCTTTGTCTCCCCGCGT  
>683.1  
GCGGTGGCGGCCGCCCGGGCCGGTACGCGGGATGGCACATGCAGCGCAAG  
TAGGGTCTACAAGGACGCTACTTCCCCTATCATAGAAGAGCTTATCACCT  
TTCATGATCAC  
>683.2  
GCCCTCATAATCATTTTCTTATCTGCTTCCTAGTCCTGTATGCCCTTTT  
CCTAACACTCACAACAAAATACTAATACTAACATCTCAGACGCTCAGG  
AAATAGAAACCCGT  
>683.3  
TGGACTATCCTGGCCGGCCTTATCCTAGGCCCTAATGGGCCTCCATCCTT  
AC  
>684.1  
TGGCTCTACAATCCTCAGCATGTTAATCGAAGCCTTGTTGAGCTTCACAA  
AGGTTCCATTGAAGATTTGAC  
>684.2  
GAAGGCGAAGAAGCTGCAACACCTTTCGAACCTTTGGGCTCACTCCATTG  
ATACCTCTGATTCTGATGACAAACGCCAATTTGGGTTCTGCAGGTACGAG  
GACATTTTGGCCCGCGGCTTGTGGGGTCTCCTTTACCCATGTTGACAGA  
TCCGCGTCCACCCGAGGGTATTGGAGGGTATTCTTGCCTGGTGCGAGCTT  
TTCTCAGAGTCCCGCAGAGCGGCCGCTCTAGAACTAG  
>686.1  
CTTTATTAAAAAAGGCCCTAAGGGGCCTTATTAAAAAAGGTATAAAAA  
CCCCATAAATTCGGGGCCCCCTGGGCTGGGCAGGGTTGATATCCCTTAAAG

Table 3

GGGAGGAAGGGGGGGGATGGGGGGTGAACCGGGGACTGGGGAAGAGGACC  
AGGGGGGCACATTGTTCTCGGGTTTGGGTTCAAAGATGGAGCGGGGGGGG  
ATATGGGGGAAAGGGGGCCACGGGTTCTCACGCAACAACGGGGGAAGGCC  
GGCGACAGTTTTTTCCCAAATTCTGGGGGAAGGGG  
>687.1  
CGGCGGGACGCGGGGGCTTTACATGGCAACAAGTATGGCGGCTGCTAGTGG  
TAGATTTGAAAGTGCGAAGAGTATCGAAGAGCGGAAAGAACAGACCCGGA  
ATGCCAGGGCCGAGGTGTTGCGCCAGGCTAAAGCCAATTTTGAAAAAGAA  
GAAAGGCGTAAAGAACTTAAGCGACTTCGGGGTGAGGATACATGGATGCT  
ACCTGATGTGAATGAGAGAATTGAACAGTTCTCACAGGAACACTTTGTGA  
AGAAAAAGAAGAAAAAGACAAGCTTCTATTTAA  
>688.1  
CCGCGGTGGCGGCCGAGGTACACTCGCCAGCGGTTTTGCCACAAGAGTAT  
ACGGAACAAAGGAGACAGGCTCATTTATAATCTGACGCGGCCACCCTCCT  
GCTGCGTTCCGTTTCCATTGGCTGGGACGGGACCTCACCTTCTGTATTG  
TCCCGACTGGCTAGCACTTAGAACTTTTTAAAAGAGGCAAA  
>689.1  
ACAAACTGGGCACTGGATAGGTAGTTCCTTTGGTGGTCAAGGTGGCTCTA  
CCTGTCTTGAGCTCTCGTGCTACTCGCTTGGTGATCCGTCCACACATCA  
GGCCAATCAGGAACAATATACAGATGCTCCCACTGATCACAGAGAGAATG  
TAGTTCTTAGATGGAGACGTCATTACTTGCATGGCAAGATCAGAGAAGCC  
ATCTGCTGGGGCCACCTAGAATGACACAAGGCAATGTGATTCTCTGAGAG  
AGCACTGGGCTGGTGGCAGTGCTAGGTCTAAGTTATCCCTCTCAGTTCCT  
AGTTTAATTTATGTCTTTTCTTTTGGAGAGGGAGGGCAGGAGATAAGAAA  
AATCAACACAGAGCTACAACCTCTTTTCTGGTCATAAACTATACACAC  
GTCTACTGCACAAAAT  
>690.1  
CGCGGTGGCGGCCGAGTTTGATTTCTTGCACTCCTGAGCGATGGAGCCCCG  
GGGGTGCTGTTATTGTCCGCTTTCTCTCTCAGATGCTTGGCTTGT  
TCAAGAGAACCTTTTTCGATATTCATTGCTCCATCGATTGGATCCAGTCC  
TTGTTCAAGAAATTTGTTTCAAGGCACTTAAGGCTGCCTGAAAGCCTTGAA  
TCCTTGCTAAATATTCCAGTTGTTTTGAAGGTTGT  
>691.1  
GCTCACCGCGGTGGCGGCCGAGGTACTACAGGAAGAACTAGAGGAAACG  
GGAATTTTCATCCATGTCTGTGTATCTGCTGGCAACAGGTGAGAACGGCC  
AGTATGTTATTCCCTGCAGGCTGCCTAGGGTGCTCTCCTCAAACAGATCA  
CCTGAGCCTCCTGCATCTATGAAGTTATGACACAGCAACCAGTTACTCAG  
AGTCTGATGAGAAAAACAGATTTTAGGTTTGGGAAATGGGATTACTGTAA  
TTTACACATCCAAATGCAAACTGGAGCTCTGATTGAATTCACCCTGGGG  
AGAAGTTGATGCTAACCCACAGGT  
>692.1  
ACACCAAATGGTGACATCCTTTCACCAATATAGATTACTTCATACCACAT  
TGTCAGGAAAGGACTAGAAGAATTTTTGATGACCCAAAAAACTGGGGG  
CAAGAAAAAGTAAATCTGGAGCAGCATGGACCTGTCAGCAACTAAGGAA  
CAAAAGTAATGAAGATTTACACAACTTTGGTATGTCTTACTGAAAGAAA  
GAAACATGCTTCTAACCCTAGAGCAGGAGGCCAAGCGGCAGAGATTGCCA  
ATGCCAAGTCCAGAGCGGTTAGATAAGGTAGTAGATTCCATGGATGCATT  
AGATAAAGGTTGTCCAGGAAAGAGAAGATGCCCTAAG  
>693.1  
ACCTCAGGGACATTTAAGAGTTGGAGGTGCAAATATATTCCAAAAGGGTG  
CAACAGACACAGTGTATCCCCCTGCTTCTGTTTTGTATATTTTGTAC  
TTGGTTTTCTTGATCATAGCTATTTTGTGCTTGAGCTTTATTGGCTA  
>694.1  
CCGCGGTGGCGGCCGAGGTACAAAACAGGGGCTAGAGCTTCCTACTAGGT  
TCTGTTGGGGCTCCCTTTCTGAACTTTGGCCAAAGACAACAGGATATT  
CTTGGGGGTTTTGTTGTTGTTTGTGGCATTCTTCTGTGCCTGTTGGT

Table 3

GATTCCAGCACAGACCAGAGTGCCGCGT

>695.1

CCGGGGGGGGCGCCGGCGGTCTGTATAATGGAGGCTGACCAGAGCAGTTTA  
GGAGATTGTAAAGGGAGGTTTTGTGAAGTTCTAAAAGGTTCTAGTTTGAA  
GGTCGGCCTTGTAGATTAACGAAGGTTACCTAAATAGAATCTAAGTGG  
CATTTAAACAGTAAAGTTGTAGAGAATAGTTTGAAAAAAAAAAAAAAAAA  
AAAAAAAAAAGT

>696.1

GTGGCGGGCGCGCCGAGGTACAGCAGGGTGCCTCAGCAAGAGAGGACTGAG  
TGGATTTTCCTTAGGGATATTTATGAACCTTAAAGCAGGAGCTTAAAGGG  
AATTTGGGCCATATTAACCACTTAGGTCATGATAAATGATTACATTTTTG  
GACATTTTGGTGTCTTAATGTCAGCAAGGGTTGCACGATAAGTTTTGACA  
TGCATGCATGGGAGACATGTAGAAATTCTAGTTACTTACAAGTTTTTGGG  
GAAGAAGCCTGGACCCAGATGCCAGCTTTAAATAACAGGGGAGTCTAATT  
ACTTCTAAATTCCTCACATAGGGAGTTTTG

>697.1

GGCGGGCGCCCGGCGAGGACGCGGAGAGACAGCGTCAGGCGCTTGATTTCC  
CTGAGTCCCGGTGCCTCAGCTGCCAGTGCCACGTTCTGTAAGAAGGCAA  
CAAGTTCTTCTCCTCTACAGAAGGATTTTGAAACAATTCGGCAAGTTCC  
AAATGATTCTGATCGCAAATACCTGGAAGATTGGGCAAGAGAAGAATTCA  
GAAGAAACAAACGTGCCACCGAAGAGGATACAATCCGGATGATGATTACT  
CAAGGCAATATGCAGCTCATGGAGTTAGAAAAACACTTGCTTTAGCAAA  
ATCTTAACATAGCATTATTCTGAAGGATTTTCAAAGTCTCCATGTGTCT  
TTGCTGCATTTAGGATTAACAATG

>698.1

CGCGGTGGCGGCCGAGGTACACGGCCCGCTCGTAGGGATCGTGTTTGTTT  
CTGACGACCCTACGGTAATGCAGCCGGAGCTTGTTTTCCGTAGCTGGGGA  
CAATCTTCTGTCCTTGCTG

>698.2

AGGCATGGATTTTCAGGTTTATAACATGGCAGAGTGAATTCTGGCAACAC  
ACTGAGTGATGCTTGTCAATGGCCACTATCAGGAATTTAAACAAGATTT  
GGAATTTATGACATCTGGACAAACCATATGCAAAACCTACCTTTTGGTC  
CATTCTCCAGGGCTTCTTCTGCAGCTTCTGGTTCCAGTCTTTTTTCGGAG  
CTGTCAGTGTGTGTTTT

>699.1

GGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTGTAGTGTTTT  
CTGATGCTTTTTCTAACAAATCTTGCCTGCCAAAAGTCTCAAAAACAT  
TCTCACGTTTCTA

>699.2

AGTCCATGTTGCCCAAACCTGGTCTGGAACCACCACACCCAGCTAATTTTT  
GTGAATTGCGGGTACCAGCACACCGGCGCGTCTGGACTGCGCCTTCTA  
CGATCCAACGCATGCCTGGAGTGGAGGACTAGATCATCAATTGAAAATGC  
ATGATTTGAACACTGATCAAGAAAATCTTGTTGGGACCCATGATGCCCT  
ATCAGATGTGTTGAATACTGTCCAGAAGTGAATATGATGGTCACTGGAAG  
TTGGGATCAGACAGTTAAACTGTGGGATCCAGAACTCCTTGTAATGCTG  
GGACCTTCTCTCAGCCTGAAAAGGTATATACCCTCTCAGTGTCTGG

>700.1

CGGCCGACTTGATGAGCGGAGAGACCTGCACCGGTGGCACCATCTTGTC  
CTGACCTCCGCACCGGAAGCCCCCGGTACCT

>701.1

ACCGCGGTGGCGGCCGAGGTACGCGGGGGAGAGAGGAAAAGAACACAGAT  
CTCGCATGGTTCAGATTTTTCTTTTAGGTCCAGGAGTAAGATATATCAT  
ACGAAAATGAAAATTATAAT

>701.2

CTTCTTGATTCTTGGGAGCCACATTGTCAGCCCCACTTATCCACAGCG  
TCTCATGTCTGCAGCAATAGCAATGAGTTACTTCTTAATCTTAATAATGG

Table 3

TCAACTTTTGCCACTACAACCTTCAGGGCCCACTTAATTCATGGATTCCAC  
CTTTCTCTGGAATTTTACAACAGCAGCAGCAGGCTCAAATTCAGGACTC  
TCCCAGTTCTCTTTATCAGCTCTAGACCAGTTTGCTGGACTGCTCCCAA  
TCAAGATACCCCTTAACAGGAGAGGCCAGTTTTGCCAAGGAGCCCAGGCA  
GGCCAAGGTTGATCCCTTACAGCTTCAAACACCGGCTT  
>701.3  
AAACACAACCAGGCCCCAGTCACGGGGATGCCCTATGTATTCTCCTTCAA  
AATGCCTTAAGAGCAAGGGCCAGATGGTTTCAATACCTAT  
>701.4  
CAGGTTTACATGGGCCCCGCGGTGGCGGCCGCCGGGCAGGTAAGCAAGC  
AACAGTTACTGCGACGTGAGATCATCAAGAACACGTAGAGAAACCCAGCT  
GTAATCATGCATGGAGATACACCTACATTGCATGAATATATGTTAGATT  
GCAACCAGAGACAACCTGATCTCTACTGTTATGAGCAATTAATGACAGCT  
CA  
>701.5  
AGGAGGAGGATGAAATAGATGGTCCAGCTGGACAAGCAGAACCGGACAGA  
GCCATTACAATATTGTAACCTTTTGTGCAAGTGTGACTCTACGCTTCG  
GTTGTGCGTACCT  
>702.1  
AAAAGGATGCGCCTCCACTTAGCAAGGCTGGGCAGGATGTGGTTCTGCAT  
CTGCCACAGACGGGGTGGTTCTAGA  
>703.1  
GGCGGCGCCGGGCAGGTCAGACCTGAACGCCCAAACACTTCCTGCAGATG  
TTGTCGTTGGAAAACCTGTCGTCTTACAGAAGCCAGTTGCAAGGACCTTGC  
TGCTGTCTTGGTTGTCAGCAAGAAGCTGACACACCTGTGCTTTGGCCAAG  
GAACTCTCATTTGGGGATACAGGGGTGAAGTTTCTGTGTGAGGGCTTGAG  
TTACCCTGATTGTAACTGCAGACCTTGGTGTACAGCAATGCAGCATAA  
CCAAGCTTGGCTGTAGATATCTCTCAGAGGCGCTCCAAGAAGCCTGCAGC  
CTCACAAACCTGGACTTGAGTATCAACCAGATAGCTCGTGGATTGTGGAT  
TCTCTGTCAGGCATTAGAGAATCCAACTGTAACCTAAAACACCTACGGT  
TGAAGACCTATGAACTAATTTGGAAATCAAGAAGCTGTTGGAGGAAGTG  
AAAGAAAAG  
>704.1  
GTGGCGGTCTGCCAGATCCATGATGTGCAGTTCTCTGGAGCAGGCGCTG  
GCTGTGCTGGTCACTACCTTCCACAAGTACACGGGTCTATTTGGCCGTGA  
CCTTGCTCTGGAGACGATGATATCCCTTCAGCCTGAGGGAATTGATGTTG  
ATGAACCCGGAGGCATCAGTTGGCTCATAATCACCTGCACGTTTCATGCT  
CACCAGCTCCTCATTGTTTACAGAGACAGTGGGGACTCCCGGCCGAGGATGT  
>705.1  
CCGCGGTGGCGGCCGAGGTCCGACGCAGCAGGCTCCGAAGATCATACAGA  
CGCCATTACCACTCTTGGCTCCAGAAACCTCTGCGCCCCGCGTACCTGC  
CCG  
>706.1  
ACGAGTAAATTTTTCATTACCTTTAATTAGGCAATGTTTCTTAGATAACCA  
TAAACTGCAAAAGCAATTTTAAAAATGATAAATAGGACTTCATCAAAA  
AGTAAACGCTTCAAAAGATACTACTGAGAAAGTCACAGAATAGGAGAAAA  
ATCTGATG  
>707.1  
ACCCATATCCAAGGCTTATTGCAACTTTTAGTCTTGCCCCTGCTACTTAC  
ACAGTCCAGAATCACTTGGTGAGCATTCCAGTAGGACGGTGGCATTTTAG  
GATTCAGAATATTAACCTATAAACCTGTCAATTTGATTCTTGATTATTAAT  
GTCTGGATCGCCTGTGGTAGGGGTGTAATCCAGGAAGGCATTAAATATA  
TTTGAATTAATGTATATTTTGAAGAATAAAAGGCTATTTCTAGAAAATATT  
ACACACTTGTCTTATGTTAAATAAAAATTTGCTATTTATTGAATATCCCT  
TACCCACCCTTCTTCCCAATGAAGATCTTATGCATACCTTCACTGGAAGG  
TTTAAGATGTGACAATCTTAATAGATCTTTGTGAGACCAGCCATTTCTCT

Table 3

GTTTATATTTTGGAAACCGCCAGAGCAAGGGCCATGCCACCTTTCTCATTG  
T

>708.1

ACATCCTTTTGCATGCTCAAGAGCCCATTCTTTTCATCATTGGAAGCAA  
CAGCGGCAGTCCCCTGCCCAAGTTATCCCAGTAGCTGATTGCTATATCAT  
TGCTGGAGTGATCTATCAGGCACCAGACTTGGGATCAGTTATAAACTCTA  
GAGTGGTAAGTGTCTTCACATTCTTTAAGCACTAAAGAAAACCTTTAATT  
AGCTACCTTGCTTCCAGTAATCAAAGTAGAGCTCCTCTGCCTTGTGTAAG  
TTGCTATAAAGTATTGACTATTAGAATGTCTTGAACCTTTGGTACTGTGA  
GCCAAGTCGGTGCTCAAAGTATATTTATAGTCTCAATTATATAGTAATT  
TAGGTTCTGAAAAATAGGTTCTGTCTTTGCATATGTAATATTTTGTGAGT  
ATTTACTTTGGAAAGTTTGGTCGACCTAATGATAAATTTAGAGTTTATTT  
TCCTTTTACAAGCTTACTGCATTGCATGGTATTGAGTCAGCTTTTGATGA  
AGCTATGTCATACTGGTCGATATCAT

>709.1

ACAAGCATGGTCCATACCACTGTTTACTTTTCTAGAAAAGTTGTTAGACTA  
ATTTTTCAACAAAAATTTCTTTATTGTCTTGGTAACAAAAGAAGCATACTA  
AAAATTCTCAATAAGGCACAGTGTCTCTAGAAGCTTGAGCATTCAACATA  
AACTTCTAATTAACACGAACCTTGTGCTCTTATTTAGCCATTGCTGTGTG  
GGCTTGGAGCCAGGAGAAGATGCAGAGGAATTTTACAATGAATTACTTCC  
ATCAGCTGCAGAAAATTTCTAGTTTTGGGGAGACAATTACAAACATGTT  
TTA

>710.1

ACGCGGGCTAATCCCAGTTATGAGGGCTCTGCCCATGACCTCATCACTTC  
CCAGAGGCCCTTACCATCTAATACCAATACATTGGGTTTAGAATTTAGCA  
TGAGAATTTGGGGGAGACAGTCAGACTGTAGCGATGATTCTGGAGTATTC  
ATCATTTAAGAGACACTTAAAAATGATCAGAAAGGAGAGGATGAAGGCTA  
GAACTAAGACTTTAGCGTTGAACATGGAAAGGAAGTGATGACTGCAGATA  
TCTCCAGT

>711.1

ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTATGATAGCCATATACCAAATAA  
ATGTTCTGTGACTAGGGGTTATGGCACAATGGGTATTGAGACACTAAAAA  
CTCTGCTTCAGGCTTCCATCCTCTTAATTTTAGAATATCTCTGATTTCTT  
AATTTCTGATTGACATCTTTTGGTAGATTATCGTGTTTTTACTTTATGT  
TATTGACTGATCCTTTAGAATGATTTTCTTTTGTCTGGGAAAAAAAT  
GCATTCTAAATCAGATTCATAATACTTTGATTCACCTCCAAGGA

>712.1

ACTTACAAAAATTTTAAACATTAGGAGGTAATTATAAGTAGATTCTGTGA  
TTAGGACTTCATTCATGTATCTTTTGTACATAAACCTTTGTTAGATTAA  
ATGGAAGACACCTGCTAGGTGATACTTTTATAAAACATATGAGTAAGTC  
ATATATCTTTGTAAATTTCTGTATGTTCTTTTGTATAAAGATGGAGA  
GAAAGGATGGAGTGATACTAAGGACCCTAATAACATCTCTGTTCAAATTA  
ATTACTAAGTGATAGAAGTATTATATGCCATTAAAGATTTGCCAATTCT  
ATTTG

>713.1

ACTGACACAAGGACTCCAGGCCACACATATCTTCTTGAAAGCCCTTTTCC  
TGTTTGAAAAAAGATCGTTTGTATTTGATAGAGCAAAAGAAAGGCCACAA  
AATGAATTGTCTTCTTGTGGGCTGTGTTTCAGAACGGCCGGTTTGTGGGC  
GATGCTGACCTTGAAAGACAGAAATTTTTCAGATTTGAAACTCAACGGACC  
CCAGGTAATTCTTTGGCTCAAGACCTGGGTTGCTTCATTCATATTTTCTT  
ATTTCCCAGCCTATAAGAGCATATTTGTGTCTTGTAAAGGTGCCTGG

>714.1

ACATATGCACTATTTAGAATATGACATTAATCAACCACTAGAATTAAT  
CAGGTTATAAATCCTCAAAATCACCAGAGTATAAATTTAAATGAAAAACC  
CAGACCACAGAACAAAAACAGAAATACCAAAAAATAATCACAAATATTA  
AAAAACAGTATATAAACACAGTGACAGAATTAGGACTAAACATATCTGTAA

Table 3

AACAATAAATGTAAGGGTAATCTCACCAATTATGAAAAAGACCTTCAGAT  
CATATTTTAAAACAAATTTAAAAACTCAACTGTATGTTT  
>715.1  
ATTGGTGTAATAATTTGAAAACCATGAAAAAATAAAACAATAAAGGATCTA  
GATGCTAATAATGTGGTTAGTTAACATGTTGACCATTTCAAAGCAAATA  
AGTCTTTGATGTTTTATACTATTTCATAGCAAGATATAAGTATTTAATCTG  
CAAAGACGTGGATTTGAAAATTCAGCTGCCAAATGTAAAGAACAGATTCC  
TAGATTATTATTAATAATATCTCTATAAATATTATTTATCAATAATGG  
GT  
>716.1  
TCTAAGTGAAAACCTGGATATTTTTTTCTCCAAAGTTATTTCTTAGTTC  
TACCTATGACATGAGGGTGATCTTTATAATTTTTTTGTTTTCACTGAA  
GAAATAAACATTGCTTAAGGGAGAGTTGGGGAGTGCATAAGGATCTGC  
AGTTGGGACTGGATTTTTCGGGTTTGTTCAC  
>717.1  
ACTAATCTAAATGCTAGACAGTTCAAGTGTAGCTTTGGAGACTTACAGAT  
AGCCAGCTAGAGAACTACCAATGATGATATCCATCACGAGGAGTTTGGTG  
GCCAGCCTCCAAGATGGTCTCAATGATCTTGCATCTTCATATTTCCAC  
CCTGTGTAGTCCCTCTCTCAGGGGATTAGGGTTGGTCTGTATGATCACC  
ACATGGCTGCAGTAATGGTATGTCACTTCTGAACCTAGGTTATAAAAGAC  
TATGACTCTCATCTTGGGTGTCCACTCTCTGTCTCTGATCTTACACTC  
TAGTGGAAGCTGCCATATTGTGAACCTCATGGAAGGCCACAGGGTGAAA  
AACTGAAGCATCTAATCAACAGTTAGCAAGAACTGAGGCCTGCCAACAA  
CCATGTGAGTGACCCCGGAAAGAATTTTTCAGTCCCAGTC  
>718.1  
GTTTCGGGTATTTGGGGCGGGATAAACATGGCGACGTCTCTGCATGAGGG  
ACCCACGAACCAGCTGGATCTGCTCATCCGGGCCGG  
>718.2  
TCTTTTATTTTCTACTTCTCTTCAGATTTGTCTTATGCATTTTCCAATA  
TGATATGCATCACAGCTATTCTTTTTCTGAGTTATAGCTACAGTTTTCTA  
CTGTTGTCTTCATGCCATTTCAATTCACATGGT  
>719.1  
AACCCTAAACATTAAGAAAAATATAGGAACAGTAAGTAGATTACATTTTG  
TAAACAGACAAGCTTACAAGTTTTCTCAAATATGAAAGTCATACTAACT  
GGGAGACTGTAACTTCTTGATGGGGTTAATCTCTAATATGAAGCCACAG  
TCATAGCTAACTACAAATTACATATACAATGCCAAAAATATTCAAAAAA  
ACATTTTTTGCACCTTAATGAT  
>720.1  
ACTTGAAGAACATGGTAAAAATATGTTTACAATAATATTTTATCTTAGAA  
ATGTATTTCAGTAAAAATCTCTTTA  
>720.2  
TTCAACTATCCTCTTGATTTCAGGGGAAAAAAGGATTAGCATGGGAGATAA  
CAGAATAGGAAGTTTAGGAGATAATGAGACTTCTGTTTTAGTAAAGTAA  
TAAGCTTTAATAGTTTTTGGTCATGTATTTCAGTTTACCAGCCTTGAAGA  
TATTTGTAGGAAATTTTAAAGTTTTCTCTATTTTCATCCCCATGATAAAA  
ATTATATAGAATAAAAGCTGAATTGAACCTTCTTCACAGCACACTGAAAA  
ATATCTTCTATAGCATTAATCAGATCACA  
>721.1  
CATAATTACCCCTTGAGCGGCCCGCCGGGCATGTACGCGGGGTAACTAT  
GTTTTCTTTAACAGAAAGTTCTGTTTTGTGATCCTTTTAAAAATAAAGC  
TTCACGGAAGGATGAGAATAGTATTTTCAACTTTAAATTTCTCATTACC  
AGAAGACCATGTGGTAATTCTCTGTATACAGTTAGAACAGCACGGAACT  
TGAAGGCCTAAAAAATTAGCTGACCTTGTTAAAAATGTTGGCGTGAGCAG  
TATATTATACCTATCTTTTTTATTGTGTGTGTGTGTGTGTGTGTTTA  
AACTAATTGGCTGAAATATCTGCCTGTTTCCCTCTTACATTTTCTTGT  
TTCTTTCTTATTTATCTTTGTCCATCTTGAGATCTACTGTAAAGTGAAT

Table 3

TTTTTAATGAAAACAAGTCCAAGTTTTACTCTCAGTGGGTTTGGGACATC  
AGATGTAATTGAGAGGCCAACAGGGTAAGTCTTCATGTC  
>722.1  
ACATGAACCTATTAATAAACCATTTCATGCTTCCCAGTTTGGCAGATGTGA  
GCAAACATATGTATAGGAATTCCAAAGGTAACTTTTCTTTTCATTACTTT  
ACAGAAATACTGTCAAGTCCAATAGAGAGCACAGACTTGGGAGGCGGATT  
GGGTGGGTTTGAATCTCTGCTCTGCCACTTTTTATTAATCATGTGAGTTGA  
GTATGTGACTTAATCTCTTTTAGCTCAATTTCCCATCTGTAAAATAGGA  
ATAATAAAAAATACTGACTTCAGAGAGGTTTGTGAGGATCAATTAGACAGT  
CATGTTAAGTCTGTAAATTGTTTCTGTAATGGGCAAGATAGCAAATATTT  
TAGATTTTGTGGACCATGCAGTCTTTATCATAACTGCTTAACTGCCATTA  
TAGTGAGAAAAGCAGCCACAGACAATATGTAATGAAAAAGTGTGTCTCTG  
TTCCAATAAACTTTATTTTCAAAAACCAGCTGGCTTGTACATCTGGCC  
TAT  
>723.1  
ACTTACTTTGTTGCTCTTTTTCTAAGTTTTAAAGATGGATGCCAATCTCA  
GGCTTCTTTTCGTGTGTGTATGTGCGTATGTCCATAAATCTCTTCTAAT  
TACAGTGTAAGCCACATCCCACAAGTTTTGATAGTCACAGAACTGTATCG  
TCACACTATTTTTTAATTTTCAGTAAGTTCTTCACTGATCCCTGTGTAATT  
TAGAAATGTTTCATAATTTCCCTACATTGGAGGGGAAGATAGTTTTGTTT  
>724.1  
ACTCCTCAGCTTGTGCTGCCCTTCTCGAATGACTCGCGTTTCCTGCTTTC  
ATCACTACACCTCCCACCGCTCTCCATCACCTGCTCTGCTCTTATAAGGA  
TCCAGAGAAATGGAATAATCTTATTGCTGATCTATGTAAACAAGTTGAAG  
AATCGTCTGAAAGAAAATACAGTGTGTCTAACTGGAAAAGTCTGTAAAT  
AGTTTGTTCATGAGCATTTCACAGTGGAGTTACTGTTTCATCATGGGGGT  
>725.1  
ACTAACTATTCCTAAATATTAACACTGGTCAACTAAAATGCACAAATTC  
ATGAATTGGATTTGCACTCAAAACAAAAAATACCATAGGCAGTATCAT  
TTCTACCTTTGTAAGAGGCAGGAATATTCATTAGACTCTATGCTTGACTT  
TTCATATGTATTTTAACACTGTAGTAGGCTATCGGGTCTAGTTTAAGCTT  
CATTTCTAACTACTCAACAGCTCAGAACTGACAAAGATCACAAGAAATC  
AACTATTAACCTCTTGCTGAAGACACAAATGAAATATTCCTATTTTAC  
AAAGCAAATTAGATTCCAAGATTTTCCAAAGCCATACTCCTGCAGTTCAC  
TTGGGTCAAACCTAAATCATAATAGTAATATACACATATTTACATTAT  
AACCATTACACATTATTTCAACTCAATGCAAGT  
>726.1  
ACTCACTTAAATAAATAATTGGTAAGATGATTTTTATCTGACAATTA AAAA  
AAGGTATATGTGAAAAACCTTAAAAAATCTATTTTATTACATGTTGAA  
ATGTTCTGTGCTTAATCCAATACATCATTTAAATCTTTTACATTTGGA  
CAACAGAAAAACTGAAATCTATGGATTCCAAGCTGCAAAGTATTTTATCT  
AAAT  
>726.2  
GCAAAATCAAAAAACATCTATAACATCTTGTTGGGGATACAAAGTTCTCCT  
GGCTGATTCTCATGCTACAGAAAAG  
>727.1  
ACATTCTATTGTTATCTCTATTTTTTGGATGAAAAACAGCAGCACAAAG  
AAGTTCAGTAACTGGCCTAAGGCCACACAGCTTGTCTTCCTGAAGACTGG  
ACCCAAACCCAGGCAGTCATAGAACATGCTGGTCGCTATTGGGCCGCTTG  
CTCTATGGGGGACGGTCTCCAGGAACACAGCAATGCGGTTTAGGATTCC  
AGGACCTGGGGCAGCTGCTGCTTCTTTCTTAGTTCTCGACAGACCACTGA  
GTGCAGTTTTTCTAAATCTTTTCCCACTTTGATATGTGGTCCATAAAAC  
TGCTTCCACACGTATAACCCACTGTGAAGTTTAAATGATTTTCATGTTTG  
GGCAAATTCCTACTGAATGTTAAGCTAGATAGGAAACAAGTTCTGACTAA  
CACAAATG  
>728.1

Table 3

TAAAAGAATCTTCCAAAGGAGGACAGCAGAAATGAAAATAAAGTAAGTTC  
AACTAGAAATCCTTGACACAACCTGGTTTTATTCCCAATGCCTCTTAAAAA  
GAATCGTTCATGGGTGGCAGGAGGGGTGTTTTCATGGTGTGATGCACCG  
TGACTTGTTATTCAAGATGTAGT  
>729.1  
ACTTATCAGGATGAAATCAGAATCACAGTTGGCCTTTTGCCATAAGGGAA  
GGGTATTTGGAGAAGAGTCAACCACCACTCATGCCTCTCCCCTGCCCAGC  
AGCACCTTGGATTTTCCTGGCTTTATGCCTCCTGTTTCCCCTGGCTGAGT  
AACTGCAGGCATTAGGTTCTCTACACACGATATATTACAGGGAAATGGC  
AGCGATGGTCTGGAAGGGCAACACTGGCCTTCTTCTCCTGAGCACTAA  
AATCCTAAACATGCAACTTAAAAAAAATTCTAAATGTGAACACCACCTT  
TCAATAATTTATA  
>730.1  
ACTCACTTAAATAAATAATTGGTAAGATGATTTTATCTGACAATTAAAAA  
AAGGTATATGTGAAAAACCTTAAAAAAAATCTATTTTATTACATGTTGAA  
ATGTTCTGTGCTTAATCCAATACATCATTTAAATTTCTTTTACATTTGGA  
CAACAGAAAACTGAAATCTATGGATTCCAAGCTGCAAAGTATTTTATCT  
AAATTGCAAATCAAAAAACATCTATAACATCTTGTGGGGATACAAAGTT  
CTCCTGGCTGATTCTCATGCTACAGAAAGCCCGAGTTTCTGTTCTGTAA  
TTGGGACAAGTGCCCGCG  
>731.1  
ACTTTTCTGAAGAATACATCTTCGTTCAATGTGGTCGTATTCTTAATTTT  
TTCTATAATATTGCTTGTAACTTTTAGAGTTATGGTTTCATTTTTTACT  
ATTAAATTTGAAATTGTTGACATCAGCAGTTGACTCTTCTGTGTAGATCA  
TAATTTTTTAATTAAGAAGACACTCTCAAGTGTGAACTATAATTGTAGA  
GTAAATTTCTAAGTGGAGGATATCGTAAATTTCTTTTTGTCTTGGTATTGA  
CATGTAAATGTTAACATATGTGAATAATTCAGTCCACGATTGTCACAGGT  
TCTATGTCTTTACCTCCTTTCAAATACTTTCTTTAAACAAATACTTTGAC  
AAATTTATTAACATTTATAAGACAAGACTTACCAAGTTGTGTTCTGTTTAT  
GATTCTTTAAATGTTTTCCAATACTTAGATACATCAAAATTATAGGACTT  
CTCAATTCCATCCTATTGTTA  
>732.1  
CTCACCTGAATTCCTTCTGCTCAAGATCCAAGAACCCTTTTTTGAGGT  
CTGGATCGGGACCCCTTCTGTAACACGACTGTATCCCCTTGGCAGACA  
TATGAATCTGCACCCCGCTTGGTCTCCAATATCCAGGGATG  
>733.1  
ACAAAACTATGTGAGAACGTATACTACTTCTCGGCCACAACACTACTTTT  
TAGATATTCATAAAAAAACCTCTGATTGTGTTTTACATTGACCCATTCA  
GTTCTGTCCAATCTTATAATTCTGATTAAATGTTCTGGGCCTCAAACTA  
ATTTTTAAAGGCCACTAACTCCAAATCTAGGAACAAAACACTCTGTAAG  
ACTACTGTAACCTTGATAAAATTAACCTGAAAAATTCACCTCACTCCAATA  
AAACTATGATTTATGTAGCTCATAAGAGGGTGAATTTTGAATATTTACTC  
TATGAAAAAGCCTAAGCAATTCAATAAAAACTTGATAACTGCACGTTTAG  
TTTGCAGCATCTTGACCTGCCCGGGC  
>734.1  
AGTTGTGAGGAATCTGCAGAATCCCCTTTCGTGTGGACGCCCTTTCAGG  
TACTTTCTCTGAATTTTATTAGCTACATTAAAAAAAGAAAAGATCAAATG  
CAATAGATAGCACTGTAATAGATTTTGCTACATTAAAAAAATCCATTTG  
AATACACAGTGAACATAAACACACAGAGTGGCTAAAAAGTCCCTTCATGCA  
TATTTACTTAGCAGAGAGCTCTTGAGAAAGACCCAACCAATAAACCCCAA  
CCAAAGCAAATCCAGCTACTTCTCTAGCTGAGAGGGTGGAAATGACTCCAA  
AATATTGTTTCAAGCTCAAAAAGCCTAAAACACTCCACATAAAA  
>734.2  
AACAAAAATCTATCTAATTGGACATTTACCTTTTTTGAAATAAAAGGCC  
AGTGGGAAAAAAAAAAAAAAAAAAAAAGT  
>735.1



Table 3

ACTTTTTTTTTTTTTTTTTTTTTGTGCACAGACACAGGCTGGGAATTTCC  
CAAATCTTACAAGTTCTCGTCCCCTTTCCCTTAACAACCTTTTCGGAGTA  
TCTCCGTCTTTTACACACTTTATTGTAAGCGAGGAGAGCAGCCAGGCTGCA  
CCTTTAACATTTTCATTACAGGATCTCAGCTCAGCCAAGTCCTCAGCCAT  
TTTGTAAATGAGGATCACTTTCTTCCGGTTCCCCGTGACCTGTCCCTCGCC  
TCCTCTAAGCCTCAGCAGAAAGGCCCTTCAACATCCACTTTTCCACAACAT  
TCTGTCTATGATACCTGCATTCTCTGAGATGCTAGAAGCTTTCTCTCCAG  
CTCTCCCCTTTTCTCTCTGAGCCTTCACCCGAGTCCCATTTGATGTCCGT  
ATTTTTACCAACAAGCTCTTCACCGCTATGGAGGCTTTCTCCAGCAGGTC  
CCTGAAAACGTCTGCAGCA

&gt;736.1

ACTTGTCTGCTTCAATAAAATTTGTCTTTGATTTCACTGGTGGAAGGGTG  
CTTGATCCAGCTTTTGTCTTCCATGAGGAGGACTCTGTTTTTCAGTTTC  
CGCTTTTATTTCTCTGAGGGGAAAAAAGAAGCATACATTATAAACT  
GGACAGCAGAAAGACTGAGTAATTTCTTAAGTTCTATAAACTCATTGGA  
ACTTCTACAAAAAGTTGGAAGAATGCAAAATTAATAAAAAATTAGATGCT  
AAAAATGTTTCATCTAAATTTTTTAATTCACACAAATAACATAAACTAT  
ATGAATAGGT

&gt;737.1

TTTTTTTTTTTTTTTTTTTTGTTTTGAAAACCTTTATTTCGGTTTCTCA  
GTAACAGTGATGCATTAAGAAATCTTGTCTGCTAACTTCATAGCAAAC  
CGATCCCAGTCCTCACCTCATTGTGTGGTAGCCAGCAGCAGAGAAGATA  
GGAATTTTCTGCCCCCTAGCAATACTGTTTCATCCCATCGATGGCCGAAAT  
GCCAGTCTGAATCATTTTCTCTGGGTAGATTCCACATTGAGGGTTGATTG  
GCTGACCTAATGTATTTCCAAAAAGGAAAATTTCAACAAGTTGCCGCATT  
ATTCATGAATGAAATTAGATATCATATCAAATTAAGAAAAAGAAAAAGC  
ACCAGAAGACCAGAACTACATAAAGCATCTCTTTACTACAAAAAAATCA  
GTTATTTTTCAAATATGAACTTGAAATAATTGTTTCTTTACTCTTTTG  
GAGACTCACAAAACATTGGGTAATAGAATTCAGTT

&gt;738.1

ACTATCTGCTCTGAATTAATAATTTAGAACAAAAATCACCTGCCGTGCCAC  
TACACATGGACATAATCAACTGCTAAATTATGATTTGTTTTCTTCCAGTT  
ACTTTTCCAATTATTTTACATATACAAATATTTTCTTGGTAGAAGAACA  
AAAGTGGCACTATTTCATTGTGTAGTTTTTTTTGTAACCTTATATTTTACCCT  
AAGCATTTTCTCGTTGTCTTAAATTATTAATTGAAAATTAATTCATGGCTA  
AATAATGCCTAGGCTGCCATGAGTCTTTTCTCCTTCTATAAACCGTGTCA  
GCATTCTTTTATATATATCTTTTACGCACATCTGCAATGATTTCTTTGGAA  
TAAATTTCTAAAGTTCGCTGGATCGAAAAGATTGAGGGATTTTTAGTGTT  
CTTTCAATTTGGCAAAGTATTTTTAGAAAACAAGCCCATTTTCAGTTCTGA  
ATAAACAAATCTTTTTTATGTTGCATTTAAATCTACC

&gt;739.1

ACACAGTTTCCTTCTTCGAAACAATCCAGAAGTAGGCTAGCAATGGTCAC  
CCCTACATACTTCCGCACACATCTTTAAGAACAGGACACCATTACCACAC  
CCAAGAAAACCAGCATTTAATGAATTTATTCAAGAGTATCATCCAACATA  
CTCAAATATCCACAGCTGTTCCGAAAGTATCCTTCAATTCTGGATCCATT  
GATGGTTCACAGGTTGTATTTGGCTGTTACATCTTTTATGTTGTTATCCT  
TCAGAGTAAACTGGCCTGCCCTCTTTCTTTCTTTACAATATTGACTCC  
TTTGAGGAACCGGGGCTGGATGTGGAGCATTCTCCATTCTCTGATTGTT  
TCCATGTGACCAGATTGCGGTACAAAATTTCTGGCAAGAACCCTTCACAG  
ATGACCATGTATTGGTTATTAGGTAACAATAGATTACTCAAGTAGAGAAC  
TGGGAAATT

&gt;740.1

ACATTGTCTGCATTTTGAGATTTTCTTATTATCTTTCTGGTGTTGATTC  
TGTTTAATTATACTGTGATCTACAAGCA

&gt;741.1

ACTTCAGGTTAGAGATGACTTCAATATATGTCGCAGACCTCCCAAGGTGA

Table 3

GCATCACACAGCACTTATCATAATCACGAAGCAGCTCCACAGAGGCTAAG  
ATGAAAACAAAAATCTCAGGAAATTTATGTTTATAAAAATGATACTTGCA  
AAAAAATGAATGGAACCATCTCCATTGCTTATTTAGAGTGTTGACTCACT  
GAATAAGATTTTAAATTAGTCAATAGTATTGGATGCCTCTATATCTGCAT  
ATCAATAGGCTCATAAACAAGGTTGCTCAAAGAACTGCCCATCAACCACT  
TGGTTTCATCTCTGGACACCACACTGTTATCTTCCTTTGGCCTCTGTCCA  
TAACGGGTCCAGGCTACGTGCACCAAAGGAAAGAATTGGGT  
>742.1  
ACAGGTTTCCCTTGCCTCAACTTCTCATCCTGGGTGATGAGACTGTTACT  
TTCTTCTTGATAAAGAGGGCAACTTTTATGTAGAAATTTTACCTCCTA  
CTTTTAAGAAAAAGGAAAATCAGAGTGCTTTAAAGGAAAATCAGAGTGCT  
TTTCTTGATCTGCTATTTTTCAAGTGCTTTAACTCAAAAAATCAATA  
TGCCAAAGTGGCATGTTTGGGGGTATCTGGTCTGAATTCCTTCAGGAAA  
GATAGAAAAGCAAAAGCAAAATAATAGG  
>743.1  
ACTCCTCCTTGGCAGCATCAATCAGGCAGGGCTCAGCCACACCCGGGCTC  
CTAAAGACAAGAGAGCAGAGAAAGCAGAATGGTGTAGAGACCATCGCA  
GTGACCTGATCCTGAAAGCACCTGTAGGAAATTGGCCTCCGCCAAGTGAA  
TGTGACAATGCAGTCAGCCACAGTGACGGAGTGCAAGATCGGATCACCAC  
ACAGATCCAAGAGACCGCTCACCACACCTGAGAAACAAGAACCCAAGACA  
GCCTCATGGAGGTGGAACCGTGCTACGCAGTTATGGCTTCACTACTGAAT  
GCGATCTTGC  
>744.1  
ACGCGGGTGTTTTTTTTTGGGTAATTTTCTTGAGTTAGAAATGTAGTTAG  
AACTGTGACTAACGGCATTGCCTGGAATGTGCTACAAACACGATTAGATA  
TTCATTTATCTTCCTCGTATTAGACTGCTTGTATAGAGACTCAGTGTTTA  
GACATTCATTTCTCTTCCTTGATAAGACTCCTTGTATAAGACTCGGTGT  
TCATTTATCTTTTAAATTAACCACAACAAATATATGAGTTTTTAACCA  
TTGCAATGTGCAATAAATAAATATATCTGAAGTAGCATTAGCCTTCTAGT  
TTTAAATAATAA  
>745.1  
ACCTTTTTTTTTTTTTTTTTTTCGTCAAAGTCACTATTTGGGCCCTAA  
CATAAT  
>745.2  
CCTGCTCAGAGCGACGGAAAAAAGGCAAGCCTTTTCAAACATAACTCTCT  
CTACAAGCCAGCTATTATGGCAAGGGAAAAAAGAAAGCATCTAGATAAAT  
ATCTATCAAAATTAACCTTTAAGAGAAATACTCTTTTCTTAAAGCCCT  
TATTTTTTAAGACACTAGAAAATAAGTTACTATAAAAAGTGGTGGTCTGG  
GGGCTAAAAACAAAACAAAAAAATCCTCTTTTCTACATTTTTTAGTTTT  
CTG  
>746.1  
ACTTTTTTTTTTTTTTTTTTTTGTAGTTAAATGCTTTACCTCAATGGTTG  
AGATATTTTGAATGGATTTTCAAGGGGGGGAAATGCTTATTATAATAAT  
AAACCAAAATACTTAACAGAAAATTGTCAGCTATTCTGACAAAAATAAAC  
ATTTTGAGAGACTTTATTTCTTTGTCCGTTTCTGTGGTATCACTCATTG  
TCGTTAAGTAAGTAAAGCTTTTTATTTTAGGTAAGAACTGATTTTATTT  
TTTAAATTATTTTTATTTATTAGCACAGAAGAATAATGAGAGCCACA  
TTTTAGTTCAACTT  
>747.1  
ACTCTTTTGTAGGTATTTCCCTCCTGCTGTGTCCAGGATTGCTGTGTG  
GTGGTGATGAGTGCTGGGAGGTGAAAAATTAATAAGCCATTTACCAGT  
CAGCATCCCAATTAATATTTGATGTAAGTGTGATCTTTGAGCCAGGCTT  
ATATATTCATTTCAAGCAGAGGAGTTCCCCATTTTAAATAGAGGCATTG  
TCTGATGTGTTATGGTTAACTGCATCTGGCTTGGGTCTTTCTGTTTTCC  
TTTCTTTGCTGAATTAGAAGGGGTACTCTGAAGAGTCCAGGTCTTACAG  
TGTGTTTT

Table 3

&gt;748.1

ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCATTCAAGAAAGAT  
AATTTTACACTTATTCTTTGAAAGAAAAATTCTATGGAATTTCTTCTTC  
TAATTAATTCACAAATACATTCTCTCAACCCTATGCCCTCATACTAGTA  
ACTTGATGGTTAGCGGGTAAGTAGGTAGTAGTAAAAAGAGCAAAAGGGGAA  
ATTTGGGGAGCAAAAAAGGGAGAAAAAGAAAAAGGGACCCTTCTAGTT  
TCCTAATAGAAAAGCTAGAGAATTCATTCTGAAAATTAAAGA

&gt;749.1

ACCACTCACTACATTACAAAATAGTCTCTAACATAAAATTGCCTTAATAA  
CTATACTATTATAGAATCTGATAAACCTTACATTATTAATGATTATAA  
AATCTTCTTGGAACAACTTTGGTATGTATCTTCAGAAGGTTTTTAAAAA  
TAATATTTTAAGGGCCTGTAAACATTCCATTCTATTAAAGCACAGCAGAA  
TAAGTAATGGATATTCAACTGCATACAGAATATAGAATCAAAAAACAAT  
TTATTATGTATTTGTAGAAAATCATTACCAGAGTAAGCAAAAAA

&gt;750.1

ACATTTGATTGTGGCATATTCAACTATGATTTTAGACAAGATGTGTGTGT  
GTGTGTGTGTGTGTGTAGACAAAATAAAATTCAGAAAGAGAAAATCTATT  
CTACAATGAAATTCATCTCTTACTTAGCTATTTTGAAATTGTGTCCCAA  
TACCACATTAACAGAGCCAAAATGAAATTTAAATTTATGGTTATACTATT  
ATTCACACTAGGTAGGGTCAGGTTTTTTGTCTGAATTAATGGCTCCTT  
TACGCTAGCTACTTAGGAACCACTTCCCATACCCTCAAGCTAGAGTAATA

&gt;751.1

ACATTTGATTGTGGCATATTCAACTATGATTTTAGACAAGATGTGTGTGT  
GTGTGTGTGTGTGTGTAGACAAAATAAAATTCAGAAAGAGAAAATCTATT  
CTACAATGAAATTCATCTCTTACTTAGCTATTTTGAAATTGTGTCCCAA  
TACCACATTAACAGAGCCAAAATGAAATTTAAATTTATGGTTATACTATT  
ATTCACACTAGGTAGGGTCAGGTTTTTTGTCTGAATTAATGGCTCCTT  
TACGCTAGCTACTTAGGAACCACTTCCCATACCCTCAAGCTAGAGTAATA  
GATACCTGACCC

&gt;752.1

ACTTTTTTTTTTTTTTTTTTTTTTTGGGAGCCATGGCAATCTTTTACA  
CTTGATTTTAGCCAAAAGGCCAAGAAGCAATGAAAGCCATGATAATCTTT  
TTATGCAATGTTATCAGGTAAAAAATGGCTAAAGTATATTAGCATTTAC  
CCGAGTGGTATTCTTTATAGAACTCAGCTACTAAAACCAGGGAGAGTAC  
TTGGTGTATTTCTGAAACACTCTGCGAAGTTGTGGATAGCTTCTGGTGGT  
AAGGATGGTATTGAACACGTTTACGTCTGTCCCCTTTCTCCTTCTCCTG  
CTTCATACAAGG

&gt;753.1

ACTTTTTTTTTTTTTTTTTTTTTTTGGTATTATATAAAATAATAATGC  
ATCTTACAGGGGAAGTCATAAATCCAATGAAATAAAGTATTTACCTGACA  
TATTTTCCCATTCTTATTCAACCATTTGACTGGTTGTCCAGCCCCA  
AATTGTTGGACTTTTTTAAACAATTCACACTGACTGGCAGTCTTCACCTT  
TAAATAGTTGAGTTCCATCCCTTTAAATCATTTAAAAACATGATTTTA  
AATTTATCTCCATTACCTTATTTTGTGTTTACTTTTTACTTTTATTTAT  
TTCCT

&gt;754.1

ACTTTTTTTTTTTTTTTTTTTGGTGGGGAGCTGTATTTATTTCCCAGGGCT  
GTCAAAACAAATATCCATAAATTGGGTGGATTAGAACAACAAAATTTAT  
TCTCTCTAGAGAAGAACGTTTTCTTGCCATTCCCTGGCTGCTGGTCATTG  
CTGGCAGTCCTTGTCTTCCCTGACTAGTAGCTACATCATTCTCATTTCT  
GCCTCTGTCTTCATATGGCTGTCATTTCACTGTGTGCTTGTCTCTGGGTC  
TTCAAGTGGCCTTTTTATAAGGACACTGGT.CATTGGATGTAGGGCCTACC  
CCAAT

&gt;755.1

ACATGTTGGAAGGGTTTTTAAATGTTTTGAACTGTGCACAGGCCAAAC  
CCAACCTTCAGGACATGGGTTTTCAACTTCTGGATGGTATGATGGGGTGA

Table 3

TAGTAGGGGTATAAAAGTATCCTGAGAAGTTGAAAGCAGTGTGTGAATGGG  
GTGTTCTTTTCTCCCCACAATCCTTTCCCATCTGCTGACAGTAGACTTAG  
CACCTCACAGATGCTTGGGCCTGGAAATGAAGCCATGAAAATGAAGCCCT  
CAGCCTTCTTGGAGATCAGAGCCATGGTCCTCACCCACAGCACATGGG  
>756.1  
ACACAAAATATTAAATAGGATATTTATTTCTAAGCCAAATTTAGAAAAC  
AATTTACAAACTTTTTTAAAGTATAAACATAGTGTATGCTTACTATAAA  
AGGAAAAGTATAAAACATTACTCAAGTATATATAGAAAATGAGTGGGCTG  
CTGATCCCCCTCTATATTCTATTGCTGTGTGACAGTATTACCACAAAT  
ACAGTAGCTGAAACAACACATTTGTTTTCTCACAGTTTCTGTGGGTGAGG  
AGTTCAAGCATAGCTTGGTCCTCTGCAAGCTTACAATCCAAGGGTTGG  
>757.1  
ACTTCTTTTTTTTTTTTTTTTTTAAATGAGTAGGAAGAGATGGTATCA  
CAAACACAAAGCACAGGTTACTGTCTTTAAAAATTTGCGTTCTTCTATTC  
TCCAATGGAAGTGGGAACAAAGAGAAAACCCCTGTGTGTCCTAGCACAAAT  
ATGGGCATTTGTGTGGATTTAATAAATGGGCATTTGGATTGTTGGGAAAA  
TGTGATCAATCAGCAGGCTATAGAAACACAGTTTGATACGATGGTGAAAA  
CTTGTCTACAATGATGTTTTTTCAGAAAATGTTGGTGTGATTAGAACAAGT  
CAGCAATGATGATGACAAAATATTTACATAATGTTATAGATGTGGCTTGC  
TAATGGAAATACCTATCTGAGGCTGTTTAGGAATACACAAATTGAGAACC  
GTTTAGTTCAGTTTGCTTTAAACAGTGGTTTTCTGAACCCTTTTATGT  
TCGTGATCCTATGATTAGTAACATCTTACCATTTTAGAATCACT  
>758.1  
ACTTGTTTTAAACAATGTTGGAAATGAGGAAAATGAGCAATATCAACAT  
TTTATCCTGAGGGACAGGGAGTAGAAAACAAGCCAGAGGCTGCTAGTTAC  
ATAGTTCAGTCTTAGGGATGAAGGGATTTATGTCTCTCCTCCCTCAGGTA  
CGCGGGGACTACACTGGTGTCTGACTTTTTTCTAGAGATTTCTCCCTGA  
AAAATACAAGGGCTGTTGGTGAGAGCAGACTTGAGGTGATAATAGTTGGC  
CTCTGGTCTACAAAGATTTCACTAATCCTTGGAAGCTTCT  
>759.1  
ACTCCGATTGCCTCTCCCATGCTTCTCTGCTTTCCAAAGAAAAAACTGAC  
CTTGATAGATCCTGTCAGCTGATTGCAGTGCTCTTAACCTTCTCCATTGT  
GAGTTGTTCACTGAGGAGTTAGGTATAAACCCAGAGTGGTATTCTCTT  
TTCTGTTGTGTTTGGTTTTGCTTACATATTCAGGAGCTGCTCTTTACCCC  
CAGAACATCCGTATATATGTTTTTTCTGTTTCTAGATTTAAAAATATTC  
CAGAAGCCTGGCCTCAAGATAGATAATATTTTACTTTTA  
>760.1  
ACTTTTTTTTTTTTTTTTTTTTTTAAAAAATATCCTTAATTAGGTA  
AAAATTCTCCTTTA  
>760.2  
TCAAGCGGGTAATTGGGTTATTTAATGGGGGGTTTTTTTTTAAAGTTTAAG  
GGA  
>761.1  
AACCGAATCAAAGCACTGGCTTATTAGACAAGAGTTTCCCAAATATCA  
TGCTAAACAGTAACAGCGAGCTTCCAAATTAATGTTGCCTTTTTTTTTT  
TTTTTCCAAACTGAAAGGAGGGTGGGGAAAAACAAACGCATCATATGTAA  
GCACTGAGTCCAGCCTG  
>762.1  
ACGCGGGTATGGTTTTACGAACAAATTTTAAAGGAAAAAAATTATCATGG  
TTCTAATCTTACATGTTAACATTTCTTGTTATGTAGGGATCAGACTTGT  
TATAACATAATTCCAATTTATAATTCAATGAAGAAGAAAGTTTTGTCTGA  
TTCTGAGGTATGTAATATTTCAATATTATTACCATATTGATATTCTCTAT  
ATAAAAAAATTTACATATTGTAGTTTTCAGGTAAGAGCTGTTGTGAACAT  
TATTTTTGTCTAGTGTAGTTAATTTAAAAAACAACCTGA  
>763.1  
ACGCCTAAGGGAGAGCTGGGAACCTCATCAAGAGACAAAAAGATGCTTTT

Table 3

TTGCTCTGAAGGCATCGCTGTGGTG  
>764.1  
CGCCAGTGTGATGGGATATCTGCAGAAATTCGCCCTTAGCGGGCCCGCCC  
GGGCAGGTACCGCGGGATTCAATTTGAGTGGGAATCTCAAAGCAGTTGAGT  
AGGCAAAAAAAAA  
>764.2  
TTCATTAAGGGATTAATAATGTATAAGGCCAGCACCGTGTAACCTTCGA  
CTTTCAAAGAATTTTCTGGA  
>764.3  
TTTTAACCTTTTTTTTAAATAAGGGGGAAGGCCAAGTTTTTTTTTCAA  
AACTTCCCCTTAAAAAAAATGG  
>765.1  
ACAGAAGCAATGTTTTTGAAGTTTTCTATCTGAGGATTGTTGAATCCA  
CAGATGCAGAACTCATGGAAACAGTGCCCACTGTATGTCACAATTTCAGA  
AAATCAGTATTTTATACAATCAGCTAATAGCCTAATTTGTTGAGCACAGA  
AAAATACACTGAACCAATTCTGATTATTGCAGAGAAATGATTGGCAGGAT  
ATTGGGAAATAGAATGAAGGGCGGAAAGAATTTACATGGATTCACTATA  
CTCTCCGTCAGGAATTTTGTCCCTTGATCTTTTGTGTTTATTGCCTT  
ATTTATTGGGGCCCT  
>766.1  
ACAGAAGCAATGTTTTTGAAGTTTTCTATCTGTGGTTTGTGGAATCCA  
CAGATGCAGAACTCATGGAAACAGTGCCCACTGTATGTCACAATTTCAGA  
AAATCAGTATTTTATACAATCAGCTAATAGCCTAATTTGTTGAGCACAGA  
AAAATACACTGAACCAATTCTGATTATTGCAGAGAAATGATTGGCAGGAT  
ATTGGGAAATAGAATGAAGGGCGGAAAGAATTTACATGGATTCACTATA  
CTCTCCGTCAGGAATTTTGTCCCTTGATC  
>767.1  
ACAATCAAAGGAGTCTAATGGAACCAAGTAGCAATGTTCCCGAAAACAAA  
CAAACAAAAAACCCCAAACATTTTGCTGTTTCTTTCCCCTCTGTATTTGC  
TAACTTTATCATGACTTTATTTCTAAAGCCTATCACTGGTCTGCTTTTAT  
TAATAGATTAGTGGAAATTTTACCTGGCCTATTAGCACCTTATAAAGAA  
ATAGATTAGAGTAGGAAATATATAGATGAAGATGTAAGTATAGAAGTT  
GTGTAAAATCAGTATGAAAGTTCAATGTTGCTGTTCTTGCTCAGTGATT  
TAAAGAAATTGAGTAGTTCCTATGTGATTTTTTTTTTTCTTTTCTAACT  
>768.1  
ACATATACATTATGTAATGAAAAAGCGTGCATGGGGATGAAAAAAATTT  
TTTTGTTTATATGCGGATACAATATATACAATAAACACCTAAA  
>769.1  
ACTTATTTTTTTACTAAGGTTTTGTTTTGGAGACTTGTGTTGAAATAAAGT  
GATCCTCATTGAGGATTTAGAAACAAAAGTTATACTCCACATGCTAGGGA  
TTAGGAAGGCTAATGTGAAGTATCAAAAGTATGAATTATGGAATGCCTT  
TAGAATAATCAACTTTTAGGTAATTTGATACTGCTATAATTTCAAGCTTA  
GAGAAAAGTTGTAAGAATGGCATAAGGAACTCCTATATATCCTTTATCTA  
GATTCATAAATGTTCAATTTGTGCCATTTGTGTTATTCTTTGTCTCATC  
CTAGCCCAGTCAGCCTAACACCACAGGGATAAACCAAGTAGTCTGAT  
>770.1  
ACCTCTCATTTGTCACTTTTCAACACTTCCTGGCAGGCAGGCAGCATAAC  
TGGTCCTGCTGGGGACCAACACACTCTGCAACTCTTTCTTCTGAGCCAGG  
CTCCCTACTGTCTTTTCAATTTATGTCAAGGCAGGGGAAGACCTCAAAGG  
GCTCTTGCATCCAGTCTCACTTCCCAGAGAGGCACGAGGCCCTCCAGGA  
TGTGGGGACAGGAACCTTGGGGCAAGCCGGGGCTGTCCAGAAGATCACCA  
GGAGGGCTAAATAGTAGAAAGGAGAGTCTTATTGGTGATATGTTTGCAA  
CTGGGAAAAGATAGCCTCCAGTGTGGAGCAAAGATGCTCCTTCTTCAAAG  
AGGGCAAGGGCAGCTTGGATTTGTGCCCTTACAGGGTCGGTATTATATAA  
TAGAGTCATGCATATTCAGTAGGTTTGGGGGAAAAGCTATATATATTTAT  
GAGGGGAGCCAACTACATGGGCAATGGATAAACATACATGTAACACATCC

Table 3

CATGTTAC

&gt;771.1

GAAAAGGAAGGCCAAACAACTTGTTGACATTTGGGAAATTGGGATATCCTT  
TGGGGAAATGTAGTAATCAGTATATTCTGGGAAAAACATTATAGAAGAAT  
GAATAAATAAAATTCCATTGAATTTGGAATATGTTGTCCATTCTTCCCTG  
TAACTAATGCTATCAAGATAAAGTTAGAAATACCACATTTCAGAAACAGC  
TGGAAGTAGACAGGGTCTTCATAGGGCTAGCTTGGGAAACCTAAATAGCT  
ATTAATAAATGAA

&gt;772.1

ACCACCAATAATGATGCCACATTTGTATCCTAAAAAAAAGTGATTTCTT  
GTTCTTTGCCTACAAGAACAT

&gt;773.1

ACTATCATCCCCCAAGGCCTTTTACAGTCTGAAATATCAAAATTGAAAGC  
AAAAATAGGATGACCAAAGGAACACTACTATTTTACCTTCTTTTC

&gt;774.1

ACATATACATTATGTAATTA AAAAGCGTG CATGTGTATGTATTA AAAATA  
ATGGTATATAAAACAAATACAATATATACAATAAAACACCTAAACGTCAGA  
GGGCTGCATGTTATTCCACAATAGGTAATAACCAATAGTATTTAATGAA  
TTGTGTAATGTATGACAACAAGACAAAAAAGCA

&gt;775.1

ACTTTTTTTTTTTTTTTTTTTTGGAGAGGGGTCATCCTCCAATCATTAAC  
ACTTCTAATCTTCACTGCTACACAGAAGTTTCCAATATTTTAGCAACAGA  
TGGCTTTGCTTTTACCTTATAGATGAGGCCAAAGCACCAGGTAGGTGGAA  
GGTTCTTGATCGGTTTGAACCCCGACAGCGCGCCAACAGACAACACGAG  
GCAGTGGGGAGCAACACGCTGTTTTAACGAGCGCCTGGGTGCAGGCGTGC  
TTGAGCTGAAAATGGCATTGAGCCCCAAGTGAGGACAGGG

&gt;776.1

AGAGCTTTGTTTAGAGGCTGTTGTAGTAATCCAGGTAAAGGCTTTTAATC  
ATGTCCTGAACAATGATCAGCAATGGCAATGGAGATGACAGAACAGAATT  
TAAGAAGGAATAAAAAAGGCTTGCTGACTACTTGGATGTGGGTGATGCTA  
TCCTTTGACACAAAGGATTTAA

&gt;777.1

ACTGCAAGCCAAATGCAATGAACAAACCAAGGTTATTGATAATTTTACAT  
CACAGCTCAAGGCTACTGAAGAAAAGCTCTTGGATCTTGATGCACTTCGG  
AAAGCCAGTTTCCGAAGGTAAATCGGAAATGAAAGAACTTTAGACAGCC  
AGCTTGAGGCAGCTTGAGAAACAGAATTAACA

&gt;778.1

AAAAACTCCTTATTAAGGAAATTTTTTAACATACCAAAAAATAGTAAGAA  
TAGTATCATGAGTTCCTGTGTGATTCCCGCCTAACTTCAATAATTATCA  
ATAGTCCACCATTCTTATTTTACTTATACTTCCCCTCCCAACACCTTAC  
TCTTTTGGCGGGGGCTGAAATTATTTTAAAGTAAATCCCAACATATCAT  
TCACCTTTAATACTTCAATGTATATCTCTAACAGATAAAGACT

&gt;779.1

ACTACGAAGCTGCAGATCATTACGCTGATATGAATGACTGCTTGAAAGAA  
CAATGACTCTGGCACAGCCACTGCTTTTCACCCAGGAAAGCAGTTTTTCA  
CAGAATGGCTTTGATTTATACTTTGCACACCATTGAGAGAATAAAAAAGAA  
AATCTAAAAGTTAGTCTTAGAGCATACAAACATTCTATATACTATTTTCA  
CAACTTTATGTGATAATGATATATAATTTATATACTGAAATTATTTTC  
AGATCCACTTACTGTGCTTAACCGAAAGTGAATGATAAAGAGCAATGAA  
TTATCTAATGTATCTTTATAATTAAGAAATCA

&gt;780.1

ACAGACAGTGTGATGGATGATGCTGCTGGTTGTAAATTTTCATCGTGTGTG  
TCTAATTTTTTTTCTGTTGAATGGGTAAAAACAAAACAAACTTTTTTT  
AGAAGATGAATTTTGTGTCATGTTTTTGTGGAATGAGGGATCCGTTGA  
GCTTCACTATCCACCTTGAAGTTTGAGTTTGAAGCCATGAAA

&gt;781.1

Table 3

ACTTTTTTTTTTTTTTTTTTTTTTGGCGGATGAGTCTTTAATAGAAAA  
ACACACGTGCAACAGTATCAACACACATTTTTTGGCAATCCTGACAGCGC  
TGAACCTTCAGTTCTTCACCTTGGGGGGTGGCCTGTACATATCAAAATCTA  
TCAAATTGGACCTCAACTATGCATTTTTCTGTGTGCAAGTTATATCTCA  
ATTACAAACAAACAAAAACACAAAACCTATGGTTAACCCAAAACCTAAA  
CTATCACCAGAAATATCAATTGGGGTTATGGCATGACCATCCTCCCCAA  
GAAATAAAATGCTTGACAGATTCTGAGCGGGACAAATTTCACTGATCAT  
ATCCCA  
>782.1  
ACAAATAAATGAGTTTGCAGTGAATTGGGCCTTCAAATTACCTCAAGTGA  
CAGATAGTAAGAAAAGCTTCTTGAGCAGGTGGAGGTCACTGAATCCCCTA  
CTATGCACCTTATCAAGATTTTACTTACTTTAATTTACTGGAAATTGATT  
TTTAAAAAATGACTACACTGTAAACAAGGGAAGGGATCTGGGTTTTTTGT  
TGTTTTATTCTTGTTTTTTTAAAGTAGTTCAAATTCTGAAACTGTGATT  
AAAAATTTTTTACAGTCAAGCATTCTGATTTTGAACATAACTCCCTTCCC  
TTTCTGTGTAACAAAGGTCTCTCTGTTATCTCTTAAATTTGTTACA  
>783.1  
ACTCTTCACTGTCTTTGCCATGAACTTTATAACATGGCTCTCCAGGTGT  
TGAATCTGGTGCCCTGTCACCTGTGCTCAGGGAACACATGGCGGCAATC  
AGCATGTGAGGCGCAGAGGGAGGGCAAGCTCCCCTTGTGATATTTGAGGT  
ATCAGCTGACTCAAGTCTCTCTCCCTTCTCTCCTTATTCTCATGCTACCT  
CTCCCAACCATTGTCTTAACTTCCCTGGCCAGGATGCCTGCCATATTAGA  
TGGAGAGGAGGCAGTTTCTAAATGGCTTGACTTTGGTGAAGTCTCAACTC  
AAGAAGCTCTGAAATTAATCCACCCAACAGAGAACATTACCTTCCATG  
>784.1  
ACTACTCGATTGTCAACGTCAAGGAGTCGCAGGTGCGCTGGTTCTAGGAA  
TAATGGGGGAAGTATGTAGGAGTTGAAGATTAGTCCGCCGTATTCCGGTGT  
ACCCCTGGGAGGTGCCAGTCATTGAATAGATAAGGCTGTGCCTACAGGAC  
TTCTCTTTAGTCAGGGCATGCTTTATTAGTGAGGAGAAAACAATTCCTTA  
GAAGTCTTAAATATATTGT  
>785.1  
ACAAGAGGATATGTGTGCATTACATGCAACCACTACACCATTTAATATCT  
GGGTGTGAGTATCCGTGGGTTTTTGGGTATCCGTGGGGGTCTCTGGAACCA  
ATTTCTCCTGGATACTGAGGGATGACTGGATTACTGTGTGTTTGTGTGCT  
TGTTTTTAAGCTTCAAAGATTATGTGATCTAGGAGTTGTTAGATTTTAT  
TATTGGTCTTAAAGATAAGCTTAGATGTGTTACTTTTTTGGAGTTTTAG  
TTTACAGTGATTATGAATCGGGCAGCTTCAGACCACAGGAGACATGAAG  
CAGGTAGAAGTTTAAGAAAGCTTGACAAGCAAAATATTTGATTTGGT  
>786.1  
ACTAAAACTAAAACTGAGCAGTTTAAACATTCTTTAAAGGGATATCTA  
ATGTGTTTATTATTAACATAAATAATGTTTTATGAAAAATGTAACCTTAG  
TTTTCCAAACAAAAATGTTTAGGGCAAGAGTAACATTATTTTACATTAT  
TGCATCTCAGTGAATAAATAATGGCAACAAAATTCTTATATCTGCTTCTG  
CAGTTAATTCTGTTTCTTTTGTGTTTGGTTGAAATATATGAAGGAAATCTG  
TCCTCACACAGTTGTGTAGTGGAATAAGGGGACTATTGTAACAGGCTG  
>787.1  
ACGCGGGATTCTCTGGTTAAGCAGGCATTGCTTTGCCCTGGAGCAGCTATT  
TTAAGCCATCTCAGATTCTGTCTAAAGGGGTTTTTTGGGAAGACGTTTTCT  
TTTATCGCCCCTGAGAAGATCTACCCAGGGAGAA  
>788.1  
ACCTGCAGGCCTCCTACACCTACCTCTCTCTGGGCTTCTATTTGACCGC  
GATGATGTGGCTCTGGAAGGCGGGAGCCACTTTCTCCGTGAACTGGCCG  
AGGAGTAATCGCGAGGGCTACGAAGCGTTTTCTGAAGATGC  
>789.1  
ACTTTAATTTCTTTATAATTTGTTTCACTATTTAAAAAGATAATCCACAA  
TCTCCTACCGCCATTAGAGCACAGGAAAAAAAAAATTCAAAAATAAAGGAA

Table 3

AAACATGGCTCATATATCTACAGAAGTCACAAAAATACTATAGGGCACAT  
ATACCCAGGCCTCAGCGGTGGGAAGAAAACATACAACCACCGGGCAAAT  
GTTTGAACACTGAAGACGGGAATTTTTTAGGGCCAT

&gt;789.2

TCAAGACCATGTTGAAGGTAAGTGGGAAAGTCCTGGATAGAAATAGATTA  
AA

&gt;790.1

ACTCAAGTCGCCCTTATGGAGCCCTTGATTGAGGCTTCAATAGTGTGGAC  
AGTGGTGATAAGAGATGGTAGGGAATGAAGTAAGTGTGTTTTATGTTCCG  
TGTGTTATAACACCTGATTAAGAGAAAACAGAATGATGAAAATGAAAAGC  
GTCTTAACTGGATTGAGTTTCTCACTACATAAAATACAGAAAAGTCAAGG  
TGGAGGCAAGATTCCCACCCTCTCCAGCAGAATTGGCATTCTGCGTCCTT  
ACCGGCTTTCTGTACAGTGGATTTCCGCCTGTTTCCTCATTGCCTCATGG  
AAATAGTTTCATATCATAGAAAGGCAAACAGGAGCTGAGCCAGTTGAAAC  
TGAAGCCTACAATCTGAGGTGGGGGTAATCTCG

&gt;791.1

ACTAATTCTTTTCTCTTTCTAGACCGATTCTAGTTTGTGCTTCCCT  
TTCCTCGGAAACCCCAAGTTTGGGATGCTGCAGACACTCTGTGCCCCCT  
GCATGCTGGGTGCCTGGCCAGCTGCCAGGGCATAAAGACAGAGACGATGT  
GGCCTTTGTCTTAAGAATGAGGTTTGAAGCCTCAGTTCTTCCATGTTA  
GGTGATTTCTTGAGCTCTTGGTATCTGCAGAATTAGTGTGAATGCTTAA  
AAAAATTAACAGCTTTATATCATCAAAGTTTAAACAGT

&gt;792.1

ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTGAAGCTGAAGGCCACAGT  
AGCTAGCTAAAGGCCACACCACTGAACACTAAAACCTTAACCTTTACTGGC  
TACTTTGTAGATAACATTCACAGCTCACCATGAATGCAGCTGCAGTCAAC  
TAACAGATATGAAGTTACCACTGTATTACATGGTTATATTAGGGACTGCT  
TCTACCTACTGGAGGCTGGGGAGGAATGTAACAGCACAAAGCCATAATGAA  
GTTTATATACAGGCTTAATATAAAAGAAAACCCTAGAATGAACTCAACAC  
AATTATG

&gt;793.1

ACCATGCAGGGATAGCTGAGTCTTCATCCTCCTCAGCCCCTATCTGTTCA  
GTGCACTGAACACCAGCTGCTCTCTCTCTCTGGCTCCCATGGCAGCCA  
TGGTCTGTTGCAGAGAGAAGAGGATTGCCTGTTCCCTCTTTAAGGGAACC  
TCCGTTTTGCTTTCTGGAACCACTCTCTTAATG

&gt;794.1

ACGAACCTTAAATTTATGATGAATATCTTTGATAATGAGAAATCCTGAGAG  
ATTTTACTTTCAATTTTATTTTAAATTTGAAAGAGCATATGACATCTGGAA  
TATTTTAAACATATAGCCATACTGTTTATTTAAATTTGTAATAATAGAAA  
TAGAGTAATCTACTGTTGGATTTTAAATTTTAAATCATATTAAGTTTAA  
CTGGATTTTATTTTAGGACTAAAATATTTAGGACTAAATAAAATTTTATT  
AATTAATTTAGGACTTTTGGGAAAAGATATTTTCAAGAGTTCAGTGCATAT  
CAAAAAAGCGAACAACAGAGGCTTCATCTTTTGAAAACCTTCATTGGCTAA  
AAGTGTCTTCTGTAATACTGATAGTGAAGAACTGTTTTTACATCCGAGA  
TGTGTTTGATGAAAGAAGATATGAAAGTGCTGCAAGACAGGCTTCTTAG  
GACATGCTAGAAGAGGAGCTTCTTAATG

&gt;795.1

ACCCTAGGTGATCTTTGGCTTCTCAAGTTTTTGCAACCACTCAGAATCAT  
TTCATATACCACCTTTGGCAAACATGCCAGACCTGCAGTAGACTGAAGGA  
AGCTCTCCCAAGCTCTAAATTGATTAATTTATTAGTTCCTAGAAGAAAGA  
GATTACATGTTTATCTTTTGTACAGAAGAACTTTGAATAGCAGTTGA  
AAATTTGGCAGGGTGGACCACCTAACTTGACAGTGTATTATTGTGTCTGT  
TTTGAAGGAATAAAATGGAATTATTTATAAAGTTTTCATTTGTATTAGAG  
AG

&gt;796.1

ACACTATCTGACCTAATCCTCAACACAACTAAGGCAGGAGACACAGGGC



Table 3

TGCAAGGACATTTGCTGCCATCCAATTTGTGCCAGCCTGTTTTATCAATC  
TGAACCTATATTATTTTTAAGACCTCACGGCATCACTGAAAGATGAGTAT  
TATTAGTTGGAATTTAGGGATGAGAAAAGTACCCTCAGGGAGAATAAC  
TGACTTGCCCCGGCTCCAACAGTAAGTGGCCCTGCTGGGATTTGAACCCA  
GGTGTGTCTGACCCCGAAGCCTGATCTGACCTCTGACAGTCGTGATAAAA  
ATAA  
>797.1  
ACCGAAAAATGATTTTGTTATATATATTTACCACAATAAAAAAGTTTTAA  
ATTTATTATAGGTGACACTGTTTGCTCACTGTAGGTCAGGTATTTTTGG  
TTTTTTTTCTCTTTATTTTATTTTGACCAATGGATTACGTCACCAGG  
TGATTTTT  
>797.2  
TTCTGCACCTCTTATGACAATAAATGTTAGAATATTTTCATCACTCAAAA  
AGAAACCAGTATCCATTAGCAAT  
>798.1  
ACAATTTTTATGTTTACAGCTGTAACCCCTGAGTTATCAAGAGATGGAAC  
ATTAGATATGATTTATTCCTATTTAAGATAATAGGACATTGCTTGATTAC  
ATTTTCAGAAGATATTTATCCAAAGAAATTTTTTTTTTAATCTAAAGGA  
AAGGTTTTGATTCTTATGAGAAAAGAATGAGATTTCTTTAACTGGAAAAT  
TGATTTATGTCTACAGTCCATTGTGTAGTGATGTTGGATCAATCAGGTA  
TCGCTAGGGTGTCTGTAGAAGTATCTATATATTGCTTTTAAAGTTCTTAT  
>799.1  
ACCATGTAGCTCTACTTTTCCATATACAGAGTTGTTTCCTAGCTTTCTGC  
TAATCTAACTGGATTCTCTTCCCCATTTCTCATTACTAGATTATAAT  
GCACATCACATAATAAAGCTTAAAAATGGGCTTTCACAGTTACTGTTTT  
CTTTTTAAATAATTGTGAGAGAGCTTTGCATCATTTATTATCTAATCAT  
GATTCAGTGACTAGGCTGTAGCACCCAAGAACCCTTGCCTTAAACAGTT  
TATTTTACCCAATAATACTACTTTGCCTTCTTACTTAAAAATGTCCCGTG  
CTTAACCCTTTTGCTCTTTATTTGATTTAAGCACTTGACCC  
>800.1  
ACTCTCTATTTTTAACAAGGCTCCCTCAAGATATTAATGTGACAACTTA  
CATAGCCAGCTGTAAGATATCTTCAAATGCGCAAGTAACCTAACAGATT  
TGTGCATGTGAGCCAGTAATTTCAACATACATTATAAATATGGCCAATTT  
TCCCAAATTTCTAAATGAATGGAGATAAAATGCTATATAATAAATATGTTA  
GAGCACCTTTCTTGAGAACTTCTAAAAGGAAAAATAAAAGACATAATT  
ATACTCACACCACCAGTAAACCTCTGGTCACCTGTTTTGGGTTGTGGAA  
TGCCCCCAGCAGCCGAGAGACCTATATTAATATCAACAGAGAAATATCAC  
ACACAGAATTAACACACATACAGTAAACAAGAGCGAGGAAGTCCTGATGG  
ATGGTAATGCTGCAACTTG  
>801.1  
ACTGATTATTCTCCTGCTTAGGGAGAAGCGGAAGAAGGCCCTTGGAAGTG  
TGAGTTTTGCATTCCAACCTTGCTAATTCACATAGATCCTAATTCCTTAA  
ATGCTTGTAATTAGAAATTCCTGTAAGTGTATTGGTTTTGTCAAGCAA  
TCTGTTTGGGGAACCTGAGCAACTGGGGCACTGCTGGCTAGGGTGAAGTT  
TATTTAATTTGTTTTATGACATTCTTCATCTTGGAATGGGGTTTTCAA  
ATATTGCTTTCCAGGCATCATTACTTATTTGCTGGTTTTATTCAAGA  
TTGGGAC  
>802.1  
ACGATAGGCATGCAATTAAGAAGACCTGCCTCAAACATTTTCTGTGTGA  
CCTGAGGCAAGTCCTTTTATAGCTATAAACTAGGGACAATATTTGCTGTC  
ATTTTTCTACAAATGTCACAAAGAACAATTTGAGCCTGTGCTGTGAA  
AGAAGTTAGCAAATGAAAGCATCCTAGGGAGTGTTTAGATATCGATATT  
TTTATCCAATTAACCTTTTCAAATGAAGTTATTTGCTCACTGAACTGAA  
GT  
>803.1  
CCCTTTTCGAGCGGCCCGCCGGGCAGGTACGCGGGGGGTTTCAGCTGTCTCT

Table 3

TACTTTTAACCAAGTGA AATTGACCTGCCCGTGAAGAGGCGGGCATGACAC  
AGCAAGAC  
>803.2  
AGAAGACCCTATGGAGCTTTAATTTATTAATGCAAACAGTACGCTTGGGA  
GTCCTCAGCAGGGGGATCATTACAGTGAGGACAGACACAGGTGAACCTA  
TGGGTCGTGGAACAAAAGTTATCCTACACCTGAAAGAAGACCA  
>804.1  
ACCTTGCACAGTGCCTTTTAAATTCATTTTGCTGGACAGTTGGCAGGCTC  
TTTCACTTGAGAGGGCTATATCTTAACGATTTAGAATGGAGAGTTTGGCTC  
AAGCTCCCTGTGTGTGGTCTGTGCTTTCTATACTTTTATTCTTGGTATT  
CAGAGTCTGGAGGCTTCTCTTTTAAAAATTGCTAGGCTCCTGCCAAATG  
TTATAATTTGGGGATGTGAGTTCACCTAAGAAATCAACTGACAAGAGGCAG  
ATTAATAGGAGAAATGACATCGAAATTTATTAGCATGCAGGGGGAAAAA  
TTGATTACCAAAATATCCAGTAGGGTAGAGATGCTTATATACCCACCTC  
TTAAGAGAGAGGGGAAGTGGATGATTTTAGGGGAATAGTAAATACTTT  
>804.2  
TATGGGAACTCACTGGGCTTGAAGAATATAACAAAAGCCTGGGACAAAGT  
CTGTTGGGCCACAGAACAGACAGTGGTTTATGACAAAAGTC  
>805.1  
CCGGGCAGGTA CTATTACTAGGTTCA TTGTTCCAGAGGGGTGAAACGGG  
GCTTTGGAGAGGTTAAATAACTTGCCAGGGTCACACAGCTATTAAGTGG  
TAAAGCTGGGATTTACATGAGCCCAGACAAAGAACCCAAGAAGCTAAGCT  
ATTCTCTTGTAAATACCTCCAACATAGGAGGCAAGAAAGTGAGGTATTATAC  
AGGTTGAGGAGATAAAGGGGAGAGAGGCCTGCAGTGCTAACAGGAGGAGC  
TGGGATTCATCCTGGCTTGTCTGATAGGTCAGTTAGTCTTAGAGATACC  
CATGAGGTCACCTACTCAAAATGGGGCTCAGAGTAGCCTTGTCCCATCT  
TGTCAGTGGGCGCAGCTACAGTCTTCTGGCCTGGAGTGACTGGAGGCT  
GTCCCCACGTCCCACTTCAGTGAGGCATTTCATGTGCACCCAACACACTTT  
CTAGCTTTATTTGCCTGGAGGGGAAGATTCTCCAGAACCTTGTTAAGATG  
CACAGTGTGGTCTCGGACTGGCAGTGTGGCCTCGGCAGTCCCTGGGAGC  
TTGTTAGGAATGCAGAATCTCAAGCTCCTCCCTACTG  
>806.1  
CCCTTAGCGTGGTCGCGGCCGAGGTACACATATATACACACATATATAGA  
TATATACACCCACATATATATTTGCTGACATTTTAATGTGAAGTTTTAGT  
CTGGGATATAAAATGGAATGTATGACATCCTCAAATGTCTGAATACTGTT  
CACTCCTATGTTTTACATTTAATTTTCCAAAGCAAAACATTTTCAGTTGAG  
GATTTTATTAGAAAATAAATAATCATTTAGCCATATCTAGAAACCAGAAT  
AAACAATGCCATAAAGCCTATAGGAAAATGCAGGTCAGATTCATAAATAT  
TCATGTGTTTACTTTTCAGTACAGGGAGGAATTTGAAGTAGATAGAAACCG  
ACCTGGATTACTCCGGTCTGAACTCAGATCACGTAGGGACTTTAATCGTT  
GAACAAACGAACCTTTAATAGCGGCTGCACCATCGGGATGTCCTGATCCA  
ACATCGAGGGTCGTAAACCCTATTGGT  
>807.1  
AATCCCATGATGTCAGACCACTGGAGTTTCCAGGGGCAACACCCCATAA  
CCGTCCCCTGCAGAAGAGCATCAGACGTTTCAGTAAGAATGCAAAGGGTA  
TCTCAGTGGGAACCGCGGACCAGGAGAGCTCCCAACCAACACATGGCTA  
GGGCTCTCTAGGCCCTTTCAGGCTAGATCTTGACGAGAGAAGAGTAAAGA  
TCTTTCTGAGGTTGGTGCAACTGAAGAAACGAAAGTTTCGGCCTCTGCTG  
TCAGATCTATGAAAGGAAAGAACTGTGAACTTGTCCTCTTTGTTTTCTT  
TGACTTAAACAAAAGAAAATCACTGGAACAAAGTCTTAAAGTAATAACA  
GAAATGTCAGAAAAGTTGAACATCTTATGGGCACATGCGGTGAGTTACGC  
TAACTTATAGCATCCACTGAGATTAGCCGCATAGGATTCTTCCCATGTTA  
GAGCTAAAAGGACCTACTGTCCGCCAGCTGCATTGCAGT  
>808.1  
ACTATCCCCTACCTATAAGGCATTTATAATGTGCTGGGCATTGTGACACT  
TTTCATATATTATCTCATGAAATCCTCAC

Table 3

&gt;808.2

AATAATTCTGAAGGGTAGCTGGTATTTTTATCTCCACTTTACAATTCTGA  
GGCTTACAGAAGTTAATTCAGTGGCCCAGGGTCACACAGTTTACAAGTGC  
CACATTGGTGAATATAAAGTAGCAACTTCTAAGTTTCACTCTCCCACTTC  
CCTAGTTATTTTCCTAAGGCATGAATGTCTGGGAAATAGCATGCATCAGA  
T

&gt;808.3

TAGGGTGTGACTATTCATAGATACCTTTGAGCTAATCTTCTGGGAGCCAA  
TGTAACCGCAATGCACACTGCAAAACAATGCACGCTTTCTCTGTAAATTA  
AAAAATGCCAACCGAGCTTGGGAAAAGCCCATCTTTTGATATGAACCAATA  
GGGCAGTTTGTAGTTTGTAGAAATAAAGAAAGTCCACTGTTCTGCTTTTCTT  
TTTTACAC

&gt;809.1

ACTTTTTCTTTCTTTTTTTTTTTTTTTTGGGAAGAATATTGCATACCTAT  
TAGAAAAGTCTTTTAACAATTAATAATTGAAAATGACTGACAACTTACAC  
TATTTGATTTAAATAAATAAATAAATGGTCACATGATAACAATCTCCTGA  
TTGATATGCTTTATTTAACCAGGTTCTCAAACCATTGGATGTGAAAACCA  
AATTTTACAATGCAGAGGTAAGTGTTGAGTGTTTAAATGGGATTTTCATATT  
AAACATTAAGATCGTATTTGACTAAAAATCTCTTATATACATTTCTAATA  
CTGAAGCAAATCGCCAACGTGACTGTAAATTATTTGAAAAAATCACAAAT  
TTCAGTTAAATTTGAATAATTTTATTATAGGTCTCATAATCTTTTTCAGC  
TTACATGGAATCAATGTGTCTTGATTTTTATTCTCGTTAATTTTATAAGG  
CCTTCATCTCCTTTTCGGTAAATGATTGCCCTCTCATTCCATTTAATGGTG  
GTTGTTACACTAGCAATCTGTGGAATTTTACATGTGGTTCGGGATTTTAC  
AAAAATTGGA

&gt;810.1

TACTCAAGAAACAGGTTCTCCAGAACTAAGCTAACTTGTTTGAAATGT  
AAATTCCTCAGGTATTCTCAGTATAGACCTATAGATTCACTTAGCTGGTGG  
GGTCCACCCAACTTCTTTTAACAAGTCTCCAGTGGATTCTGATGCAATG  
CTAACATTTGTGAACACTGTCAAAATCAAATGGAGTCACTTGTTTAA  
AAATCCTGACAAATAAAGCCAGGGACAGCTATGAAGAGAGGGTTCTCATG  
CATCAATGCCTGATTAACA

&gt;810.2

AAACCACAATCCTGCACAAAGGTCATCACAACTTACACAAAAAATATCT  
TCACAAGGACATC

&gt;811.1

ACAATCATTAAACTATGTTGTAATACTGTTTGTCTTTGTATCCATTCTG  
GCGTGTCTCCATACACTTCACTAATATTTGATATACCTGTTTTATACCAA  
TATAATGCTGCTGCTGTACGTAGAAGCTGTAGTACCATATCCTCTATTT  
GTTCAATTATTTTTTTCATCTTCTGGCACACTAGGATCTATAACAATGACA  
ATATCTTCAAAGCCATTATTATTCAGCTTAATGAAGGAAGTATTTGACTG  
GTGCAGCAGGCACAGAACTAAGAGGAAAACAAAACCTCTGAATAACCCCA  
TTGTTCTCTCTAGTTATTCCTGGCTCAAATGTTGGTTTGTCCCCGCGT

&gt;812.1

ACCTAAGAGTTATTAATACTATTTTCAGTAAAAAAAAAATTTAATAAACC  
CTGTGTGATCCCATTTGTAACAGAAAGGCTGATGTTTTCTGTTGTGAAATA  
CAAATGCAAGGAAAAAATCATTTCTTTGTTTCAAAGGATGCATTTCTTCC  
ATAAAGAATAATTTGTATTTATTTTAAGGGTTTATTTTAACCTTATACAT  
CAGCCTATATAAAATACATTTCAAATGATCTGTGCTCTTTAAATTACCA  
AAAGCAAATGTTAATTTTTTTTTCCCTCTAACAGATAACAAGTTTACTC  
CTATGCTGATTTTTCTGGTGCCACTGAAGTTATTTTGA

&gt;813.1

ACATGTGCATAAGAGGGAATGCTTCCCTACATTACTCCAGAATACAAAGC  
TTCTTTCTGCCTTTCTCATCCACATAATGGAAGACACTTCTTGGGTGAAA  
TACTCCACAGTTATTTTCAGTTCTCACTGGTGAGTCTGAATATAAGCTCTA  
TGAGAGCAGGGACCTTGTCACTCTTATTCACAATATCCCCAGCCTCTAGA

Table 3

ACAAGGCTGGGCACATAGTAGATGCACAAAAGGTGTTTGCTGAATGAATGG  
ATGACTGAGTCTGTGTGGGGTAATGATAGGGCTAAGGATGGGACTCTAAA  
CTCAGGTTTTCTCTGTGGGTTTCACAGTTTACTGGTCTTAAGAGGAGAGT  
TTCTAAACTTGCCTTATGATAAAAACCACTTCAGCATTTGGTAAAAAT  
TACCCATTCTGTAGATTCTGAGTCAGTGAGCTGAAGTGGAGCTGATGAA  
TCTGTTTTTTGTGATACTGCTGCTGCTGCGGTTTTTAACACATGCTTCAG  
GTGGTTCTAAGCTTAGGAAACCTTGCCCAAGGATACCATCCTGTCTCTTG  
GGA  
>814.1  
TTATCAAAAACCAACAACCAAAACAAAAAATATTACAACAAACAGAGAA  
ACGAATCAAACCAAAAACCAAAATACTTTCTGGAATTCAAATGATACAT  
TATATATACCTATCAAGACAACAACTACTAACTACCTAACTACAAAT  
ATCATAAAAAATGACTCCTGTCTATATCAATAAAAAACTGCTATTAAAT  
TGAGTATTATAACACA  
>815.1  
ACAAGTATTATGTATCCATAAAAATTA AAAAATCTTTAAAAATGCATATG  
GGGGTCAGTAGGTAAGAAAAGAGAACCAAGAGAGCTGCAGCGGGGAGC  
ACAGCTTGCTTTAAACATGAGATCCAGCTCAGTGATCATGCGGGGGAAAA  
GGCCCGGCATTGCTGGAACCTCTAATATTTAAAAAGATGATGGAACTTG  
AAATTTTATATTTAATCTTCTCATTTTTAAGTGTTGGCAATGTATTGAAG  
ACTTTGAAGCCTCTGTGCTGGTCAAACAAGATGTATCTGTAGGCTGGATT  
TAGTCCACAGC  
>816.1  
ACAACGTGAATAGCTATTGGTCTTCAAGTGGGTTTAGATTTGGTGACATC  
AGTTTGATATTCTCTTAAAGGAAATAAATATTCAAGAACTGATTATGTTT  
TAACATGATTATATTCATGGTGTTACATAGGCCTCAATTTTTTACAGAA  
AGATTTTTGGAACAGGACTGTGAAGTGAGGCTTTTTAAAAAATTATTTTA  
TAAGCAGAGAACACAGCCTGATAACTTAGTCAAGGATATACTGTCTGTCT  
CACTACTTTGGACTTATATGGCTTCAGATTAAGTCATCCAAGAAACATAC  
ATA  
>817.1  
ACATGTAATAGACACTATGCTACAGCAAAAGCTTTTCTTATTGTCTTTAA  
AATTTTCTGGGTGCATAAACTATGT  
>817.2  
GGTAACTCTTTCCCAATTTTTA AACTTTTACATTACAAGTCATTTTCAGAG  
TAAAAAGTCATTTAACAAAGGCAGATAGAAAGGCCTCAAATCCCTGAGGA  
CCAAAAATCCCAACACATTTTCAAAAGGGAGAAAAATTTCTTTAACTTCA  
TGGGAAAAGTATTTTTAACATAATAGAGAGGCTTTATGCAGTCTTTGACA  
AGATGATACTTTTGAATAGAACAAAGAGGAAAAATTTTCATATTATA  
ATATTACTGTGTCAAATTCTATGTTGTCAAAGAGTGACTATCTCTGATG  
AGAAAAAAT  
>818.1  
AGGGAACAAAATTA AATTTTTCAATTCTAATTTTTTTTTTTTGGACACA  
TGTATTCCTTTTAGTGGAACAAAGGAAAAAATAACTTTTTTCTCCAAAT  
AGTCGGCCTGGAAAAA  
>819.1  
ACAACGTGAATAGCTATTGGTCTTCAAGTGGGTTTAGATTTGGTGACATC  
AGTTTGATATTCTCTTAAAGGAAATAAATATTCAAGAACTGATTATGTTT  
TAACATGATTATATTCATGGTGTTACATAGGCCTCAATTTTTTACAGAA  
AGATTTTTGGAACAGGACTGTGAAGTGAGGCTTTTTAAAAAATTATTTTA  
TAAGCAGAGAACACAGCCTGATAACTTAGTCAAGGATATACTGTCTGTCT  
CACTACTTTGGACTTATATGGCTTCAGATTAAGTCATCCAAGAAACATAC  
ATACATTCTAAATGGTATATATTGGGAATATATGCCCTTTAAAAGAATC  
AGGTCAGAAATGCAATAACAATTAGACTAGACTGTTGCCCGTGTTAGGAG  
AATGTGTGGTCATCCTAGTTACTAATTACTCTCACTCAAGATGGAGATGT  
TGTCCAGTTTAACATAGTCTTAAGTTTTCTTAAACCAAAATAATTTATGA

Table 3

GTAGCTTATTACATCTGCAGAGCTACCTTATTATAATAGTACCTGCCCGG  
GC

>820.1

ACTAGAATTAGTTCCAACACTACTGCTGGTGATAAACTCACCATCTACCTTC  
ACTTGTTTTCTCTTAATTCTCCAAGAAGTAATCAGGTGAATAAAGAATCA  
TCATCAGATAATATTCTCCAAGATTCTTTAAGAAATTAATTTTTATCTAC  
TCTTAAATGATTGCACAATTATAGGATAGAAATTACTATCTTGTGCTCTA  
ATTCAAATTGCTCTTAATGATCCTAGAGAGAAATGAATTACTAGAGATAA  
AAGATAAATTTTGCTGTGGTTTGCATCTTTGTTCTTTCCTTAAACTT  
AAC

>821.1

ACTGGAAACCAGACCTTACTTAAGCCCACCAAAGGCAAGGTTTGGGCCTG  
CCACAGCGGATTTCAAAAAGACAAAGCAATGCAAGCCACGTGTTCAAAAT  
GCCCTAAGTGGCTATTCAAGTAATATATAAAAGTAAGACCAGGCTAATTA  
GTATACAATGGGGTAAACCAGAGAGCAGAAAGCCCTTCTTTAAATGAGC  
CTACCACTGCTTGGCCTCAGTGTGAATTTAGACCCCATCTTCTGATATT  
CAGGAGAAAGTAAAAATCTAGATTTTTATCTAAAATCTTTTTAATTTTTA  
AACAGTCACCTGATTTT

>822.1

ACAGAGCATCTTAAGGTTGGAAGGACTCTTAGAGACCATAGTCCAGCCTC  
CCACTTGATACTGAAACACGTTTGTGAATTCATGGCCGATGTCTAACTTC  
CCTCACCACCTTTCCGATATGGACAGTTCTCATGCCAGAAAGCAAAACCT  
TCTTTATTGTGCCTGTCCTCCCTTGACTGTCATGCATATAATCAGCATCT  
TTCCCACTAAGTGAAGGGCCAGACTCGAGCACAGGAGCACAGCACCCCT  
TAAACTCAGCAGGGGGCTGCATTCACACCATCAGCAGGGAGATTACACTTG  
TGTCATTTG

>823.1

ACCAAGACTTTAGAGGGCAAAGAACAGAGGATTCTTGAGAAAGGGGACTT  
GAAGGTGAAGAGATAAAGGCTGGTGCTTCCAGGAGCGTGGGTCTCCTACG  
TTTGTGTTCTTGGGAAGAACTCTTGGAAGTCAAGGCGTGGGCAGCTGGATGCC  
TGGGTTCTTAGGCTTCCCTCCAGGCAATGTAGTTGCCTCTTTCTCTCCCC  
GCGTACATAGTAAGTGTATGATAGATGTTTGATTTGTAAATTACAAATAT  
AAATTATCACCCCCATTTCCATTTATTTTCTTGATATATCAAATGTGTT

>824.1

ACCCCCATTATAGTAGGGAGACTGAATCTTCAAAGTTACAGGGTGAATCA  
ATGATAATGATCTTTGCAGCTTTCTGGAGTTAAAAAGCATCAAATTTGGG  
AGATATTAGTGTGACATCTAAGTATTAAAATAAGGAGATATTAAATGA  
TGACTCCTAGAAATGAACCTGAATAAGGACTACCGCAATGTGTGTGGTGT  
GGGAAAGGACAGTTCTTTAATGGCTGGCTGACCCAGCCTCAATTTTCTT  
GCAGCTTCGCCGACACGAGGTGACCATCTGCAATTACGAAGCATCTGCCA  
ACCCAGCAGACCATAG

>825.1

ACCTCTCATGGCTTTTTGGTTCCAGCAGTGAGGGCATTGGTGAGATCAGT  
GGTAAACTGTGCAAGCTTTCTTTTATCATTAGGAAATGTGAAACGTTGG  
ACAAATTTTGAGTTTTAACAAGGACAAAAAGTTGAAAGAAAAGGCACAGT  
TAACAAAAAAGGGTGGCTAGATTTATCTTGGGTGATGGAGGAAATGAGAG  
AGGAATGCTCTTGAAAGGTGGTCTGTGGATCTGTCTGAATAGAAAGAGCA  
CAGTAAGTATGCATTGCCGGAGAAAACGTCCTTGAAGCTGCTTGTCTCAT  
GTGTATGATGTG

>826.1

ACTCAACAAGCAGCTGACTTATGTTTTATTGGACATTGTGATACAGGAAC  
TGTTTTCCAGAGCTCAATAAGGTACGCGGGAAAGTCAACTCAGTTACCTCT  
GTTTGGTGTGTGTATCACTTGCAGATGCTGTCTACCACCTTTTCAGTGAC  
ATCCTAGAAGCTTCTCTATTACCACAGTAACTGGCTAACTAGATATGATC  
TTTCCCTAATTTTCATGAGCATCTTTTTTCTGATATAAACCAGGGAGGGA  
AAATAACAAAGTTGCTTCACTCTGAAGGAGTATTCTCCTCTAGTACCTG

**Table 3**

&gt;827.1

ACATATATGAAAAGCCAACATTCTAAAGTAGAGGTTCACTTAATTTTTTT  
TTTTTCAAGAGAGGCTTCTTGGTAGTTTCATCACACAGTGGTTTTATTA  
GGGGATGTAAGGATTACAGAAACATCGTATTTTTTAACATATAGTATTTT  
TTGAATATGATTTGAATTAATATAGAAAAGTGCATTTTTTCCAGTTTTTT  
TAGGGAAAAGGAGATACTTCACCAGGAGGATAAAAAGGAACAAGAGGGGA  
AGGGGAAATAAAAATCCAGAAAGATGAAAAATTGTTGATGTAAGATGGA  
GGCACA

&gt;828.1

ACAAACAAGCTTTGTTAACTAACCCTTGCCATCCTGGCTACTTTACCCA  
ATTAACCACCCTAGCCCAGGACGTTTGCTTTATCACATGTTACAGTTTG  
CTATTCTTTGTTCAATCTTGTAAGTGAAGTGAAGTGAAGTGAAGTGAAGT  
TGTTTCTTTATGAAGTTTCCCAGGCCATACAAAAGTGTGTTAGCCTATC  
TTCTGTCAGTTTAATTGTGGAAGTCAAGCCAGGCCCTTAAGAGGATGGAGG  
AGAGTTTTTCCCACAGCAGTTCTGAATGGGATGAAGTGAAGTGAAGTGAAGT  
TCCCCATTGCCACTACACCACCTCCTGATGAGTCTTGCAGCAGAAATACC  
GTTTAACTGTTTCTGCTTTTATTTTTTTCTGATTATCATCCAGTTTTATA  
TATTCATATCTGGGTGCTTTGATAATTATATACATACTTTTTTGATAT  
TATTTACTTATTCTTTAC

&gt;829.1

ACTCACAAGCAATAACAGATTCATAGATCAGTTGACATTGGCTGGTCTCC  
AGGACAGGAATGTGGCCAAAAGGTGCTTTGTATAGACGCGGGGCACTGAA  
TCTGTGTCTCCCCTGTTACCTACTTTTGCCAGTGAAATTTAAGTTTTAAA  
ATACTTTCAGAAATGATTTTTACTACTGCAAGTTTTTGGTCTTTAAATG  
TCAAGTAGCATCTCTCTCTTTCTCTCTGTCTCTTTCTGTTTCTCTCTCCA  
GTTTTTTTTTTTTTTTAAATTTCCATATGGGCTAAAGAATCCAAATATT  
TAAAAATCTGGCTCTCTTTTCTCTCTCATAAAGTGAATTATTCCTCTTT  
TTGTTTATGTAAGTGTATATATTCTTAGTTTTTCTTGAAATCATTGTA

Table 4

&gt;1

NNNNNNNNCCACCTCCTGCGTTTAAAGCAATTCTCCGCTCAGCCTCCCGAGTAGCT  
GGGATTACAGGCGCCACCACCATGCCCGCTAATTTTTTTTTTTGTATTTTAGTAGAGATGG  
GGTTTACCATTCTTGGCCAAGCTGATCTTGAACCTCCTGACCTCATGATCCGCCCACCTCGGC  
CTCCCAAAGTGCTGGGATTACAGGCATAAGCCACTGCGCCCCGCTCTAATAATAAATATTT  
AATGAGCTCTTCCATTAATAAACAGTGATAAGATTTATGAGGTTTACAAGAAAGAGTAAGGCA  
TGGTAGATGATGTGAATGAGCATATACCCTAATTCCTTGAGAAAACAAAATAGAAATACACTA  
AAAGGAACATCACAAGAAGATGCTATTAGTTGTAATGATTAAATATTTTGTGACATACAGTAT  
TTTATTCATTCATATTTATATCTTCTCACATTTCAAAAAAGCCATTTAGTGGTTAGGTAAAGAG  
TATAAATAGTAAAAGCTCAGAGAGGTTGAAGAGATCATTATGGCTGGGGAAAATTCATAAG  
AAGGTGAGAACTTAACAGAACCTCAGAGGCTGAGTGGGATCAGATAGGCTAAGAGGGTGGC  
AGAAGACACTCCACATGAAGAAAAACATGAACAAACAATTCAAGATGCTTTAGGACATAGG  
ATACAGGGTGATTGGGCTTGGATACTCCGATTAAAGAATGGTAGGGAAAAAACTAGAAAGAA  
ATACAGAGGCCTAATCGAAGTCTCAAATCCCAAATAAATATTTAAATTTTCATGTATAGAAAA  
ATGGACCTCGATCTTTATTCTACCATAACATATAATTCCAAATTCTCTCAGTATGTCCAAAAAA  
AAAAAAAAAAAAAAAAAGTACCTCGGCCGC

&gt;2

NCGCCTGTGGGAGGACGTCCGGGTGGGCGGAACCTCCTAGCGGACACCTCGTGGA  
GTCCGGCCGGAAGAGCAACCGAGATGAAGGTGAAGATGCTGAGCCGGAATCCGGACAATT  
ATGTCCGCGAAACCAAGTTGGACTTACAGAGAGTTCCAAGAACTATGATCCTGCTTTACAT  
CCTTTTGAGGTCCACGAGAATATATAAGAGCTTTAAATGCTACCAAACCTGGAACGAGTATTT  
GCAAAACCATTCCTTGCTTCGCTGGATGGTCACCGTGATGGAGTCAATTGCTTGGCAAAGCA  
TCCAGAGAAGCTGGCTACTGTCCTTTCTGGGCGTGATGGAGAGGTTAGAATTTGGAAT  
CTAACTCAGCGGAATTGTATCCGTACAATACAAGCACATGAAGGCTTTGTACGAGGAATATG  
TACTCGCTTTTGTGGGACTTCTTTTTCTACTGTTGGTGATGACAAAACCTGTGAAGCAGTGGA  
AATGGATGGGCCAGGCTATGGAGACGAGGAAGAGCCATTACATACAATATTAGGAAAGACA  
GTGTATACTGGGATTGATCATCACTGGAAGAAGCTGTTTTGCCACATGTGGACAGCAAGT  
AGACATTTGGGATGAACAAAGAACTAATCCTATATGTTCAATGACCTGGGGATTGACAGTAT  
AAGTAGTGTTAAATTTAACCCAATTGAGACATTTCTCTTGGGAAGTTGTGCATCTGACAGGAA  
TATAGTACTGTACGATATGAGGCAAGCTACTCCTTTGAAAAAGGTTATCTTAGATATGAGAAC  
AAATACAATCTGTTGGAACCTATGGAAGCTTTCATTTTTACAGCAGCAAATGAAGATTATAA  
CTTATATACTTTTGATATGCGTGCCTGGACACTCCTGTAATGGTCCATATGGATCATGTATC  
TGCAGTGTGATGTGGATTACTCTCCACTGGGAAGGAGTTTGTGTCTGCTAGTTTCGATA  
AATCTATTTCGAATCTTTCTGTAGACAAAAGTGAAGCAGGGAGGTATATCATACAAAGAGAA  
TGCAACATGTTATCTGTGTAATGGACTTCTGACAGCAAGTATATTATGTGTGGATCTGATG  
AAATGAACATTCGCCTGTGGAAAGCTAATGCTTCTGAAAAATTGGGTGTGCTTACATCACGA  
GAAAAAGCAGCCAAGGATTATAACCAGAAATTGAAGGAGAAATTTACAGCATTATCCTCATATA  
AAACGTATAGCTCGTCATCGACATCTACCAAAATCTATCTATAGCCAGATTCAGGAACAGCG  
CATCATGAAAGAAGCTCGTCGACGAAAGGAAAGTGAATCGTATTAAACACAGCAAGCCTGGAT  
CTGTGCCACTTGTGTGACAGAGAAGAAGAACACGTAGTGGCAGTTGTAAAATAATTGGTATTC  
CTAACAATCCTGATGTATAATTATTTGTTACTTTTGATTGAGAACTCTACAAATAAAAGTGCT  
GGGACTAGATTAATTGCAAACATTTTAGTTATATGTGTAGAGCTTTATTGTTACTCCTTTTAGC  
TACCCTGAAAAATGATCCTTAAAGGTGGCCTAGTTGGTAAGACTGTTTTATCCTTAATCTGCA  
TTCTTCTTTTATTGTAGAAATACAGTATTTGCAACTCATTTTTTCTGTTTTTATTACAGATATA  
TTACTTTCTCTTTGATCTATTATTGTAGACACTATACATTCAAATTGACATTTAAGACCAACAT  
CTCTTATGTTATCTTTAATATTACTTTGAATAATGATTGCAATGATGTTTCTTCTGTGATTCCA  
CATAACATTTAGAATAATGATGTCAATTTTTACAACGAATTTATTTCTAGTGCTTTACTTATA  
TTTGGCTTTTGACTCTTTTAAACAATCAGCCTGCATTTATATAACTTTTATAAATAATAATAT  
AATTTGGGTCAGTTAAGATATTAAGGTTCTTTTCCAGCANNNNNNNNNNNNNNNNNNNNNN  
NNN

&gt;3

&gt;4

&gt;5

NNNNNNNNNNNNCGCGCCCCGTGTTGCGAAGACGACGGGTCCACAGCTGGGCGC  
GACCATAGCGGCCTCCAGCCAGGGGGAGCGCCTACGAGAGGGCCTCACGTGATGGTCA  
CCACTAAGAGGAGGCACAACGCCTGTTCCCGCAGAAAGCAGGCGCCCCAAAACGCTTCAGA

Table 4

CAGAACCATAGCCAGTAGACAGAGCTCTACTTGACTTGAGGATAGAGAGAAAGATGAAAAGT  
CCAGAGCCGGACTGCATTGACGGAGACCATCACCCAGAGACACTAAGACCGGAGTTAAGG  
TTCTAATGACTTCATTAAGTCTGGCCTTGAAAATGAGAGGTCTGGATGGCTTCTGATTTTCAG  
CTGCAGTACATCCCCTTCAGAGCCTACCAAGGCCACCATGCCATGAAGAGCTGCCAGACAA  
AGCATTGTGGGAGTGCCCTCTGTTAGAACAATTCTGATCCAGGCAGGGAGTAGTTTGCTGC  
CCAAGTCTTCAGCTTTTCCATGTCCACACACAGACAATCCATGAACATATGTTTCTAAAGCCA  
GGGCAAAACCTGAAGTCTGCTGGCTATTCTCCACTAACAGTCGAAGCTTGTTTCATAACATCC  
TCAGCCTCTGTAGCCTCAATAATTCCAGCACTGAACGCTGATGTACATACACAGCTAAGTGT  
GTAGGCAAGGACCTCCTGAAACGTTCTGCTCTGGCTCCCGCTGTACATCTACGTGCGCAGAC  
AGCTTCCGGAGCAATGCTGCTACGTGAACGCGGGACTGCATTTGGCTGCTGTGGCTCATGA  
GGGACAGAACAAGTCCAACCTCCCAATATACAGCCCGTGTGATTCAAGACTAGTGTCAAAG  
CAGCAATTTTCCAGGGCATCCAACGACTTCATCAGAAGAAGGTTTCATCTCTTGGCCAGATAT  
ATCACTGAGTTTCTCTTCCACACAAGCGAGAGAGAAACATCCCTAAAGCAAGGCCCATGTGGA  
TTTGCACGGCTTGAGACTCATCAGCACTTGGTTTCCAGGTAACCTGGCAGTCAGCATGTTT  
AGGATTTCTCAACCTTCTCTTTGCAAGAGATAATGAAAACCTGGCACAAGGAGAGACAAAGC  
CGTGGCGGCAGCAGAACGGGCAATGGCACTAGCTGTGTTTTACCAGAATAGGACTTATAA  
TAAACCAGGAGAGAAGTTGCCCTCTGGTTGGTAATGGCTATCCACAATGACCAAGAGTGT  
ATCAAGTACCATGGAACCCACTCTTTCATTGAAAGGAAATTAGGTTGAACCTCCAGGAGCC  
CGTCAGAGTCTGAGGAGAGGCTGGCTTCATGTCTAGATACGACGACAGCAAGGCTGCTTAG  
AGCTAACAGCGCATTGCCCTTCACTACCGGACTCTCCTTTGCAGCTGCCCTTGGTGATCTCAT  
CAGTCAGCATGTCTTAACCCAGAGCCAGGCTGTGCTTTTTTTGACTGCACCTCCTCAGGT  
TCTTCTTTCCATGTTTTAACTGCAACTCCAGCTCTCCTAGTCTTCCCTGTAAATGGCATGAT  
AAGCTCGATTATGTATGCAAGCCAGGCCTGTGGAAGAAAAATTGCACGGTGCCACTCTGAA  
AGCTGGATCAGACN

&gt;6

NCGTCCGTACGCGTCCGCCACGCGTCCGGCGGATGGATCGCTTGAGGTCAGGC  
TGGTCTCAAACCTCCTGACCTCAAGTGATCTGCCCGCCTCGGCCTCCCAAAGTACTGGGATTA  
TAGCTGTGAGCCACTGCACCCTCCCGGAAATGCTTTTTAACGGTCACCTCCTAGGGGAGAT  
GAAGAGAGTTACCGCATAATCAGTTTTAACTGTATTTGTAATGTTTGTCTTTACCTGGGAG  
GATATGTTGTAGATACGTGAGATAGAATACCTAAGTGACACAATGGTGTGCAGGCTATGGCT  
GCAAAGTAGAAAGTTTCTAAATAGCATGCTTGGATTTTTATTTGAATTGGATGAAGTTTTGTG  
TCTAGAGAAATTCACAAATGTTCTAGTTTCAGATAAAAGGTTATGATTTAACATCTTTGCT  
TTTGTTCTTTCTTGTCTTTGAATAGAACAGTGGGGGACGGTAAGGTCTGTTTGCAAAGTACCT  
ATGACCATCTTACATTATTTTTATGGGTGGGGGGCATTGACTGTGGAATGTGGGCAGTAACT  
TGCACAGTCAGTAACCGTTTGAGTAACCTTCTTGTGGCATCCCCATTCTGGCACTCCTCCTCT  
AGGTCTCCACCTCACACGCTGGTTGTGGGCGGAGGGGCAGGTTGGTGCGTGGGGTGTCC  
GGCACTGGCTGTGCATGCCCTTCTCCTCTTCTGTCTCTTGGCCACCTTTTCCAAAAGTCA  
CCAGTGACCAATTCTCCAGTGTTTCTTTGGGACTCAATGCCTTGGGCTTGGCATTGGGTAA  
AGCCAACTGGCCAGTTTCATTCTGACGAGCTCTATAGTAGTCCGGTGTGGACCTCTGCCCTC  
CCTGCTCTGCGGAAGCTTCTCAGCCTTTGCTTCTCACTATTTACTATTTGCGGGTCTGGG  
GGTACCCAGCGTCTCAGGGTTTTGGCTGCCACCTGTACGTCGGTCCTTTCAAACCTGTGGT  
CAGAGTCAACCTCAGGTGCTGCTTTTCTAGTCACTGCATTTTTTTTTTTTATGATAGAGACC  
AAGTCTTGCTGTGTTGTCCAGCCTGGATTCAAACCTCCTGAGCTCAAGGAATCCN

&gt;7

NCGCCTGTGGGAGGACGTCCGGGTGGGCGGAACTCCTAGCGGACACCTCGTGGA  
GTCCGGCCGGAAGAGCAACCGAGATGAAGGTGAAGATGCTGAGCCGGAATCCGGACAATT  
ATGTCCGCGAAACCAAGTTGGACTTACAGAGAGTTCCAAGAACTATGATCCTGCTTTACAT  
CCTTTTGAGGTCCACGAGAATATATAAGAGCTTTAAATGCTACCAAACCTGGAACGAGTATT  
GCAAAACCATTCCTTGCTTCGCTGGATGGTCACCGTGATGGAGTCAATTGCTTGGCAAAGCA  
TCCAGAGAAGCTGGCTACTGTCTTTCTGGGGCGTGTGATGGAGAGGTTAGAATTTGGAAT  
CTAACTCAGCGGAATTGTATCCGTACAATACAAGCACATGAAGGCTTTGTACGAGGAATATG  
TACTCGCTTTTGTGGGACTTCTTTTTCTAGTTGGTGATGACAAAACCTGTGAAGCAGTGGAA  
AATGGATGGGCCAGGCTATGGAGACGAGGAGGCCATTACATACAATATTAGGAAAGACA  
GTGTATACTGGGATTGATCATCACTGGAAAGAAGCTGTTTTGCCACATGTGGACAGCAAGT  
AGACATTTGGGATGAACAAAGAACTAATCCTATATGTTCAATGACCTGGGGATTTGACAGTAT  
AAGTAGTGTTAAATTTAACCAATTGAGACATTTCTTGGGAAGTTGTGCATCTGACAGGAA



Table 4

TATAGTACTGTACGATATGAGGCAAGCTACTCCTTTGAAAAAGGTTATCTTAGATATGAGAAC  
AAATACAATCTGTTGGAACCCCTATGGAAGCTTTTCATTTTTACAGCAGCAAATGAAGATTATAA  
CTTATATACTTTTGATATGCGTGCACTGGACACTCCTGTAATGGTCCATATGGATCATGTATC  
TGCAGTGCTTGATGTGGATTACTCTCCCACTGGGAAGGAGTTTGTGTCTGCTAGTTTCGATA  
AATCTATTCGAATCTTTCTGTAGACAAAAGTCGAAGCAGGGAGGTATATCATACAAAGAGAA  
TGCAACATGTTATCTGTGTAAAATGGACTTCTGACAGCAAGTATATTATGTGTGGATCTGATG  
AAATGAACATTGCGCTGTGGAAAGCTAATGCTTCTGAAAAATTGGGTGTGCTTACATCACGA  
GAAAAAGCAGCCAAGGATTATAACCAGAAATTGAAGGAGAAATTTGAGCATTATCCTCATATA  
AAACGTATAGCTCGTCATCGACATCTACCAAAATCTATCTATAGCCAGATTGAGGAACAGCG  
CATCATGAAAGAAGCTCGTCGACGAAAGGAAGTGAATCGTATTAAACACAGCAAGCCTGGAT  
CTGTGCCACTTGTGTGAGAGAAGAAGAAACACGTAAGTGGCAGTTGTAAAATAATTGGTATTC  
CTAACAATCCTGATGTATAATTATTTGTTACTTTTGATTGAGAACTCTACAAATAAAAGTGCT  
GGGACTAGATTAATTGCAACATTTTAGTTATATGTGTAGAGCTTTATTGTTACTCCTTTTAGC  
TACCCTGAAAAATGATCCTTAAAGGTGGCCTAGTTGGTAAGACTGTTTTATCCTTAATCTGCA  
TTCTTCTTTTCATTGTAGAATACAGTATTTGCAACTCATTTTTCTTGTTTTTATTACAGATATAC  
TTACTTTCTCTTTGATCTATTATTGTAGACACTATACATTCAAATTGACATTTAAGACCAAACAT  
CTCTTATGTTATCTTTAATATTACTTTGAATAATGATTGCAATGATGTTTCTTCTGTGATTCCA  
CATAACATTTAGAATAATGATGTCAATTTTTACAAGTGAATTTATTTCTAGTGCTTTACTTATA  
TTTGGCTTTTTGACTCTTTTAAACAATCAGCCTGCATTTATATAACTTTTATAAATAATAATAT  
AATTTGGGTCAAGTTAAGATATTAAGTTCTTTGAGCANNNNNNNNNNNNNNNNNNNNNNNN  
NNN

&gt;8

NCGCCTGTGGGAGGACGTCCGGGTGGGCGGAACTCCTAGCGGACACCTCGTGGA  
GTCCGGCCGGAAGAGCAACCGAGATGAAGGTGAAGATGCTGAGCCGGAATCCGGACAATT  
ATGTCCGCGAAACCAAGTTGGACTTACAGAGAGTTCCAAGAACTATGATCCTGCTTTACAT  
CCTTTTGAGGTCCACGAGAATATATAAGAGCTTTAAATGCTACCAAACCTGGAACGAGTATTT  
GCAAAACCATTCCTTCTGCTCGCTGGATGGTCACCGTGATGGAGTCAATTGCTTGGCAAAGCA  
TCCAGAGAAGCTGGCTACTGTCTTTCTGGGGCGTGTGATGGAGAGGTTAGAATTTGGAAT  
CTAACTCAGCGGAATTGTATCCGTACAATACAAGCACATGAAGGCTTTGTACGAGGAATATG  
TACTCGCTTTTGTGGGACTTCTTTTTCTACTGTTGGTGATGACAAAACCTGTGAAGCAGTGGA  
AATGGATGGGCCAGGCTATGGAGACGAGGAAGAGCCATTACATACAATATTAGGAAAGACA  
GTGTATCTGGGATTGATCATCACTGGAAAGAAGCTGTTTTGCCACATGTGGACAGCAAGT  
AGACATTTGGGATGAACAAAGAATAATCCTATATGTTCAATGACCTGGGGATTTGACAGTAT  
AAGTAGTGTTAAATTTAACCAATTGAGACATTTCTCTGGGAAGTTGTGCATCTGACAGGAA  
TATAGTACTGTACGATATGAGGCAAGCTACTCCTTTGAAAAAGGTTATCTTAGATATGAGAAC  
AAATACAATCTGTTGGAACCCCTATGGAAGCTTTTCATTTTTACAGCAGCAAATGAAGATTATAA  
CTTATATACTTTTGATATGCGTGCACTGGACACTCCTGTAATGGTCCATATGGATCATGTATC  
TGCAGTGCTTGATGTGGATTACTCTCCCACTGGGAAGGAGTTTGTGTCTGCTAGTTTCGATA  
AATCTATTCGAATCTTTCTGTAGACAAAAGTCGAAGCAGGGAGGTATATCATACAAAGAGAA  
TGCAACATGTTATCTGTGTAAAATGGACTTCTGACAGCAAGTATATTATGTGTGGATCTGATG  
AAATGAACATTGCGCTGTGGAAAGCTAATGCTTCTGAAAAATTGGGTGTGCTTACATCACGA  
GAAAAAGCAGCCAAGGATTATAACCAGAAATTGAAGGAGAAATTTGAGCATTATCCTCATATA  
AAACGTATAGCTCGTCATCGACATCTACCAAAATCTATCTATAGCCAGATTGAGGAACAGCG  
CATCATGAAAGAAGCTCGTCGACGAAAGGAAGTGAATCGTATTAAACACAGCAAGCCTGGAT  
CTGTGCCACTTGTGTGAGAGAAGAAGAAACACGTAAGTGGCAGTTGTAAAATAATTGGTATTC  
CTAACAATCCTGATGTATAATTATTTGTTACTTTTGATTGAGAACTCTACAAATAAAAGTGCT  
GGGACTAGATTAATTGCAACATTTTAGTTATATGTGTAGAGCTTTATTGTTACTCCTTTTAGC  
TACCCTGAAAAATGATCCTTAAAGGTGGCCTAGTTGGTAAGACTGTTTTATCCTTAATCTGCA  
TTCTTCTTTTCATTGTAGAATACAGTATTTGCAACTCATTTTTCTTGTTTTTATTACAGATATAC  
TTACTTTCTCTTTGATCTATTATTGTAGACACTATACATTCAAATTGACATTTAAGACCAAACAT  
CTCTTATGTTATCTTTAATATTACTTTGAATAATGATTGCAATGATGTTTCTTCTGTGATTCCA  
CATAACATTTAGAATAATGATGTCAATTTTTACAAGTGAATTTATTTCTAGTGCTTTACTTATA  
TTTGGCTTTTTGACTCTTTTAAACAATCAGCCTGCATTTATATAACTTTTATAAATAATAATAT  
AATTTGGGTCAAGTTAAGATATTAAGTTCTTTGAGCANNNNNNNNNNNNNNNNNNNNNNNN  
NNN

&gt;9

Table 4

&gt;10

TGGCGGCCGAACATCCATGTTTTAACTAGCACAGACAAAACCTATGTGTTACTATCA  
AAATAAAATTTAGAAAAACAATTTTCTTATAAAATTTTCTGTTTGTATTTGGACTACATAAACTG  
GCTTTAAATTTAGAAAATATGCCCTAAAACCATAAGGAAAAAGCCAACAGAAAGAACAAAAAG  
ATCACAGCAATTAGGCCGTTCTATTCAATTTTGCCATGAGCTAAAAATCACATTCTTCACAAA  
GTAAATTACGCCCTGTTTTTATTCTTAAGCACTAGGGTTAGGATTGTGATCTGAGCTTTACT  
AAATCGGAAAAAGAAAATCTCAATTATAGAACATTTAGTTTATTATACCTTAATGCCCGGAGA  
GGTAATATTTTACTTTAAAATGCATAACCCATGTGACATGCTAGGTCTTCCAAAACACTTCTTT  
TGAATGTGTTCTGATCCTTGAAAAATGTGGGGCAGGGGGAAGGGGCCTAAGAGCTGAGGAC  
TGTGGGTCAGACCCTCATGCCATGGGCATAATGAACATATCAGAGAAGACTAAGACTATGGT  
GAGAGAGAAAGAAAAGAATTGAGTTCCTTTCTTCCGAGACAAGTCAAATGATAGATTTTGC  
CTTTACAACATAAGTCATGTGAAGATTTATTAAGTCAGACATCAAAGAAGGTCTGCCATATTAT  
AGTAAGAGAATTAGTGAAACAGTAGGAAAAAGGTGATCTGGGGTTCGAAAAGCTAGGGCAA  
NNNNNN

&gt;11

&gt;12

&gt;13

NNNGAGCTCACCGCGGTGGCGGCCGAGGTACCAGGTGTCATTCTGCAGCAGGAT  
TTAACAGATGCAGATCTGGCCCCAGTGTGAGCATCTGTGTTAATGGTATCAGACTTAAGAA  
GGAAAGACCTGATTTGACTGCTGTTGGTTTGGTAGTGTCCCTGATCCGGAGCCAGTTTTGT  
GGGAGGGAGTCCCAAAGCAGGTTTGAAGCTGTGGTAAATGACCGAGTTGATCCTAGAAGACAA  
AACAGTAGAATCGTACCTCGGCCGCCACCCGGGGGCGCACAACGNNNNNNN

&gt;14

NNNGCAGCCTGGCAGTGCAGTGGGGCACGTCCTGCTGTGCGCGTCGCAGTCGCG  
CGGAGCCCGGCTTCCGACGTGCAGCCTGGCAGTGCAGTGCAGTGTCTGGCCTTTTGTCTCT  
GATCCTTGGTTAAGGAAATGACCAACCAGTACGGTATTCTCTTCAAACAAGAGCAAGCCCAT  
GATGATGCCATTTGGTCAGTTGCTTGGGGGACAAACAAGAAGGAAAACTCTGAGACAGTGG  
TCACAGGCTCCCTAGATGACCTGGTGAAGTCTGGAAATGGCGTGATGAGAGGCTGGACCT  
ACAGTGGAGTCTGGAGGGACATCAGCTGGGAGTGGTGTCTGTGGACATCAGCCACACCCT  
GCCATTGCTGCATCCAGCTCTCTTGATGCTCATATTCGTCCTTGGGACTTGGAAAATGGCA  
AACAGATAAAGTCCATAGATGCAGGACCTGTGGATGCCTGGACTTTGGCCTTTTCTCCTGAT  
TCCCAGTATCTGGCCACAGGAACTCATGTCGGGAAAGTGAACATTTTGGTGTGGAAAGTGG  
GAAAAAGGAATATTCTTTGGACACGAGAGGAAAAATTCATTCTTAGTATTGCATATAGTCTGA  
TGGGAAATACCTAGCCAGTGGAGCCATAGATGGAATCATCAATATTTTGTATTTGCAACTG  
GAAAACCTTCTGCATACCCTGGAAGGCCATGCCATGCCATTGCTCCTTGACCTTTTCCCCG  
GACTCCCAGCTCCTTGTCACTGCTTCAGATGATGGCTACATCAAGATCTATGATGTACAACAT  
GCCAATTTGGCTGGCAGCTGAGCGGCCATGCCTCCTGGGTGCTGAACGTTGCATTCTGTC  
CTGATGACACTCACTTGGTTTCCAGTCGTCTGACAAAAGTGTACAGTTGGGGCGGTTGGAC  
CGGGGCTTGTGTTACACCCCCCTTTGGATACAGGCGGGGGGTAACAGGAGGTCAATGG  
TTGGGAAGCGAAATTGATGGGAAAAACCGTTTGAAGGGGGGGAATCCTGGGAAATGGAA  
TGAAATTGGGGTATAAATGTGGGGGTGTTCAATATANN

&gt;15

NAGAGAATTTGCAACACGTGGTAGTGAAGTGTGAGGAGTTTGAGGGGTCTGAAGAC  
TGAAAGAGTGAATGGTTGTTGGCAGGGTGTCTGGTGGATGGTTTCTGTAAGTTCAGATTCT  
TCATAAATCGTGTGAGCGTCGCCGACACCTCTGAGATAAAAGGGCCCCCTTTCGACTAGCCTC  
TGCTGAAAGGACCTAGAAGAATCCCTTAGGATGAAGCTGAGTCTTACCAAGGTAGTTAATGG  
CTGTGCGCTAGGAAAAATAAAAAACCTGGGCAAAACAGGGGACCACACCATGGATATTCCA  
GGCTGCCCTTCTGTATACCAAGACTGGCTCCGCCCCACACCTCACCCATCACACGCTGCATA  
ATATCCACGGGGTTCTGCCATGGCTCAGCTTACGCTGTCATCCCTAGCAGAACATCATGAA  
GTCTTGACAGAATATAAAGAAGGAGTGGAAAGTTTATAGGCATGCCAGAATCACTCTTGTAC  
TGCTCCCTGCACGATCCAGTCAGCCCCCTGCCGGCTGGTTATGTAACAAACAAGTCTGTGT  
CTGTGTGGAGTGTTGCAGGACGAGTGGAAATGACTGTTTCCAAGTTCATGGCAATTCAGAAG  
GCCCTTCAGCCAGACTGGTTCCAGTGCCTCTCCGATGGAGAAGTATCTTGTAAGGAAGCAA  
CTTCCATAAAAAGGGTCAGAAAGTCTGTTGACCGATCACTTCTTTCTTGGATAACTGTCTGC  
GGCTGCAGGAAGAGTCAGAGGTTCTTCAGAAGAGTGTGATCATTGGAGTGATTGAAGGTGG  
AGATGTGATGGAAGAGAGGCTGAGGTGAGCAGCAGAGACAGCCAAGCGCCTGTGGGTGG

Table 4

CTTCCTTCTGGATGGTTTTCAAGGAAATCCAACAACCCTGGAGGCTAGACTACGCTTGCTGT  
CATCAGTCACTGCAGAGCTGCCGGAGGACAAGCCAAGGCTCATATCTGGTGTAGTCGGCC  
AGGTGAGGTGCTCGAGTGTATTGAAAGAGGAGTGGACTTATTTGAGAGTTTTTCCCTTATC  
AAGTAACAGAGCGGGGATGTGCCCTGACTTTGAGTTTTGATTACCAGCCGAATCCTGAAGAG  
ACACTACTACAACAAAATGGAACACAAGAAGAAATAAAATGTATGGATCAAATAAGAAAAATT  
GAAACAACCTGGTTGAACCAAGAAATAACATCATTTGAAATTAATCTGAAGGAAAAAAGTACC  
AGGAGGACTTTAACCCTGCTGGTGAGAGGATGTTCTGTTACTGCTGTAAGAATCACACTCGG  
GCATACATCCACCATCTGCTGGTGACCAATGAGCTGCTGGCCGGAGTCCTGCTTATGATGC  
ACAACCTTTGAACACTACTTTGGGTTTTTCCATTACATCCGGGAAGCACTAAAAAGTGACAAAC  
TGGCACAGTTGAAAGAGCTCATCCACAGGCAAGCATCTTGAGATCTTGCAAATACAAGTCTC  
ACTCTTCACACTGAGCCTGTACCN

&gt;16

CGGTGGCGGCCGCCGGGCGAGGACGCGGGAAGAGGTAATTTTAAATGCCATTTTCA  
TGGGACACTTGGGAGCTAGATTAGAAGAAGCCAAGACTAGAAATCGGGGAGATGAGTTGCAG  
AGGGAAGTGGTGAAGGTCTGAAGGAAGGTAGGAAAAGGTCCGACACATTCCAGACATATTT  
AGGGGTGGAGGTGGTTGGATATGGGGAGTTTAAAGGGGAAGGAATGTGGGGTGAAGTGGG  
TGGTGAGTCAGTGGATATTGGTGACTGAAATCACCCTGCTAGGAATACAGTAGACAGAGAN  
NNNNNNNNNNNNNNNNNNNNNNNNNNNN

&gt;17

&gt;18

NNNGAGCTCACCGCGGTGGCGGCCGAGGTACCAGGTGTCATTCTGCAGCAGGAT  
TTAACAGATGCAGATCTGGCCCCAGTGTGAGCATCTGTGTTAATGGTATCAGACTTAAAGAA  
GGAAAGACCTGATTTGACTGCTGTTGGTTTGGTAGTGTCCCTGATCCGGAGCCAGTTTGT  
GGGAGGGAGTCCCAAAGCAGGTTTGAGCTGTGGTAATGACCGAGTTGATCCTAGAAGACAA  
AACAGTAGAATCGTACCTCGGCCGCCACCCGGGGGCGCACAACGNNNNNNNN

&gt;19

ACTTTTTTTTTTTTTTTTTTATTTTTTTTTTTTTTTTTTTTTTCCCCCGGGAGAGGA  
ATTGGGAAGAGCAAATTGCTGCTGAAAATTTCTACATTGATCCAGACAAACAAGTTAGAGCA  
GGCTGAAAAAGAACCCTTGGTGTTTTTACTGCTGTTCAACCAGATCAACTGGAAAAGTATAG  
ATACCTTAATTAGCACTGTGCTCTGTGGGATTCTGGTCAGCCTGGCCCAGTGGTTTTTTTCC  
CCTGAACACGCCTGAAAGGGGAGCTCATAATGACTGCTGTGCAGGTGGGCGGGGAGGGGG  
CTTCCTATTTGATTTAGTGGCTGATCAATGCCAGTTACCAATTATTGGTAGCCCCATTTATAC  
ATGGTGGAAAAAAGT

&gt;20

NCCGAGGCACCACAATTTTTTTAAGTTCTAAGGTAGCTTTCTCAAAGAAAACCATTTT  
AGGGTGTCCATTAAAAGAGCATCTGCGAATTGTTTTGTCAGGGACTCCTAATCAGTCAGGAG  
AAGTAGAATGTAAGCAAAGTCACAAACCTCCCGTAAGAATTTGGTTCACCAGGACACAGCTC  
CTCTCTTATGAAGGGATGAGAAGCAGACCCCAAACCCAGTGCCACAGTCTCCCTGGAAACA  
GCAGCAGGCTTGGGGAATGCTTCCAAAAGGCTATGCCATTCAAGGTCTCAGGTTTTTTGGTT  
AAAAATACAACCTTAGGCCAACTGCAGTGGCTCATGCCTGTAATTAATCCAACCTCTGGGAGG  
CCCGAGCGGGTGGANN

&gt;21

NNNGAGCTCACCGCGGTGGCGGCCGAGGTACCAGGTGTCATTCTGCAGCAGGAT  
TTAACAGATGCAGATCTGGCCCCAGTGTGAGCATCTGTGTTAATGGTATCAGACTTAAAGAA  
GGAAAGACCTGATTTGACTGCTGTTGGTTTGGTAGTGTCCCTGATCCGGAGCCAGTTTTGT  
GGGAGGGAGTCCCAAAGCAGGTTTGAGCTGTGGTAATGACCGAGTTGATCCTAGAAGACAA  
AACAGTAGAATCGTACCTCGGCCGCCACCCGGGGGCGCACAACGNNNNNNNN

&gt;22

CGCGGTGGCGGCCGAGGTACAGAGTAGAGAGAGTTCTGCAGGGATGAAGTGGGAG  
ACGTTGATAGGACCAGACCAGACCAGGCCTTGTAGGCCATGGAAGGACTTTGGATTTTACA  
CCAAGTGCAACAGGTAACCTGCTGGAGGGAATTCAGCAAGAGAGTGACAGGAGCTGATTGAC  
AATTTGAACGCCCACTCTGGCTGCCATGTGGCAAATAGATTGTAGGAAGAAAAAGAAAAAG  
GAAGAGAGCAGTTTGGAAGCTACTACTGTTGTCCCAGAAATATGTAATGGTGGCTTGGCCAA  
GGNN

&gt;23

CGCGGTGGCGGCCGAGGTACAGAGTAGAGAGAGTTCTGCAGGGATGAAGTGGGAG

Table 4

ACGTTGATAGGACCAGACCAGACCAGGCCCTTGTAGGCCATGGAAGGACTTTGATTTTACA  
CCAAGTGCAACAGGTAACCTGCTGGAGGGAATTCAGCAAGAGAGTGACAGGAGCTGATTGAC  
AATTTGAACGCCCACTCTGGCTGCCATGTGGCAAATAGATTGTAGGAAGAAAAGAAGAAAAG  
GAAGAGAGCAGTTTGAAGCTACTACTGTTGTCCCAGAAATATGTAATGGTGGCTTGGCCAA  
GGNN

&gt;24

NNNNNNNNNNNNCGCGCCCCGTGTTGCGAAGACGACGGGTCCACAGCTGGGCGC  
GACCATAGCGGCCTCCAGCCAGGGGGAGCGCCTACGAGAGGGCCTCACGTGATGGTCA  
CCACTAAGAGGAGGCACAACGCCTGTTCCCGCAGAAAGCAGGCGCCCCAAAACGCTTCAGA  
CAGAACCATAGCCAGTAGACAGAGCTCTACTTGACTTGAGGATAGAGAGAAAGATGAAAAGT  
CCAGAGCCGGACTGCATTGACGGAGACCATCACCCAGAGACACTAAGACCGGAGTTAAGG  
TTCTAATGACTTCATTAAGTCTGGCCTTGAAAATGAGAGGTCTGGATGGCTTCTGATTTTCAG  
CTGCAGTACATCCCTTCAGAGCCTACCAAGGCCACCATGCCATGAAGAGCTGCCAGACAA  
AGCATTGTGGGAGTGCCCTCTGTTAGAACAATTCTGATCCAGGCAGGGAGTAGTTTGCTGC  
CCAAGTCTTCAGCTTTTCCATGTCCACACACAGACAATCCATGAACTATGTTTCCTAAAGCCA  
GGGCAAAACCTGAAGTCTGCTGGCTATTCTCCACTAACAGTCGAAGCTTGTTCAATCATCC  
TCAGCCTCTGTAGCCTCAATAATCCAGCACTGAACGCTGATGTACATACACAGCTAAGTGT  
GTAGGCAAGGACCTCCTGAAACGTTCTGCTCTGGCTCCCGCTGTCATCTACGTGCGCAGAC  
AGCTTCCGGAGCAATGCTGCTACGTGAACGCGGGACTGCATTTGGCTGCTGTGGCTCATGA  
GGGACAGAACAAGTCCAACCTCCAATATACAGCCCGTGTGTTGATTCAAGACTAGTGTCAAAG  
CAGCAATTTTCCAGGGCATCCAACGACTTCATCAGAAGAAGGTTTCATCTCTTGGCCAGATAT  
ATCACTGAGTTTCTCTTACACAAGCGAGAGAGAAACATCCCTAAAGCAAGGCCCATGTGGA  
TTTGACGGCTTGAGACTCATCAGCACTTGTTTCCCAGGTAACCTGGCAGTCAGCATGTTT  
AGGATTTCTCAACCTTCTCTTTGCAAGAGATAATGAAAACCTGGCACAAGGAGAGACAAAAGC  
CGTGGCGGCAGCAGAACGGGCAATGGCACTAGCTGTGTTTTACCAGAAATAGGACTTATAA  
TAAACCCAGGAGAGAAGTTGCCCTCTGGGTTGGTAATGGCTATCCACAATGACCAAGAGTGT  
ATCAAGTACCATGGAAACCCACTCTTTTCATTGAAAGGAAATTAGGTTGAACCTCCAGGAGCC  
CTCAGAGTCTGAGAGAGGCTGGCTTCATGCTCTAGATACGACGACAGCAGGCTGCTTAG  
AGCTAACAGCGCATTGCCTTTCACTACCGGACTCTCCTTTGCAGCTGCCTTGGTGATCTCAT  
CAGTCAGCATGTCTTAACCCAGAGCCAGGCTGTGCTTTTTTTGTAAGTGCACCTCCTCAGGT  
TCTTCTTTTCCATGTTTTAACTGCAACTCCAGCTCTCCTAGTCTTCCCTGTAAAATGGCATGAT  
AAGCTCGATTTCATGTATGCAAGCCAGGCCTGTGGAAGAAAAATTGCACGGTGCCACTCTGAA  
AGCTGGATCAGACN

&gt;25

TGGCGGCCCGCCCGGGCAGGTACGCGGGAGGCACATTCTTTTCTACGTGAAGAGTT  
TTGTAAACTGAACTTTGTTTTAGTTCCGGCTCCAGCCATCCTCGGGTAGCTTGCCAATAGAT  
GAATCCCACTCGTTTGACCCATGACGCTCCTTCTTTTCATTTCTCCCTCTTTCCCCACAGCAG  
TGCATGTCCACCATAACCACCTGAGAGTCTGTGGAATCTAATTTTCTGTTATACTTCTTTCTTA  
CACTCATTTTCTGTCTTTATTATGATAGTCTAACTTTTTCTCCTCAAAGGTATAGCTGCCTTG  
CTTTTCATGAAAACACACTTTTCTATTGTGATTTATCAGAGGCCTTTCCATATCTCAGCCACTAT  
GCTATGACAGATTTTATAATTAATAAGTGCATTTCAAAGTGAAAACGTTACAAACATGCTTAAC  
AGATGTTTTTATAACATGAAATATTCTACTGCGTTAAGATCAAATGCTGACTATACTTTGTCC  
GTATACCTTCAGACCACTGTTAATGTAATATTTTTGGCAAGGTGAATGGTCTTTTTTGGATATAA  
AAATCTCAGCATAAGCCAGGCATGGTGGTACACAGCTGTATTCTCAGCTATTTAAGAGGATT  
GCTTGAGTCCAGGAAATCAAGACCAGCCTGGGTAACATAGTGACACCCAGTCTCCANNNN

&gt;26

NCGCCTGTGGGAGGACGTCCGGGTGGGCGGAACTCCTAGCGGACACCTCGTGGA  
GTCCGGCCGGAAGAGCAACCGAGATGAAGGTGAAGATGCTGAGCCGGAATCCGGACAATT  
ATGTCCGCGAAACCAAGTTGGACTTACAGAGAGTTCCAAGAACTATGATCCTGCTTTACAT  
CCTTTTGAGGTCCACGAGAATATATAAGAGCTTTAAATGCTACCAAACCTGGAACGAGTATTT  
GCAAAACCATTCCTTGCTTCGCTGGATGGTCACCGTGATGGAGTCAATTGCTTGGCAAAGCA  
TCCAGAGAAGCTGGCTACTGTCTTTCTGGGGCGTGTGATGGAGAGGTTAGAATTTGGAAT  
CTAACTCAGCGGAATTGTATCCGTACAATACAAGCACATGAAGGCTTTGTACGAGGAATATG  
TACTCGCTTTTGTGGGACTTCTTTTCACTGTTGGTGATGACAAAACCTGTGAAGCAGTGGAA  
AATGGATGGGCCAGGCTATGGAGACGAGGAAGAGCCATTACATACAATATTAGGAAAGACA  
GTGTATACTGGGATTGATCATCACTGGAAAGAAGCTGTTTTTGCCACATGTGGACAGCAAGT

Table 4

AGACATTTGGGATGAACAAAGAACTAATCCTATATGTTCAATGACCTGGGGATTTGACAGTAT  
AAGTAGTGTTAAATTTAACCCAATTGAGACATTTCTCTTGGGAAGTTGTGCATCTGACAGGAA  
TATAGTACTGTACGATATGAGGCAAGCTACTCCTTTGAAAAAGGTTATCTTAGATATGAGAAC  
AAATACAATCTGTTGGAACCCTATGGAAGCTTTTCAATTTTACAGCAGCAAATGAAGATTATAA  
CTTATATACTTTTGATATGCGTGCACTGGACACTCCTGTAATGGTCCATATGGATCATGTATC  
TGCAGTGCTTGATGTGGATTACTCTCCCACTGGGAAGGAGTTTGTGTCTGCTAGTTTCGATA  
AATCTATTGCAATCTTTCTGTAGACAAAAGTCGAAGCAGGGAGGTATATCATACAAAGAGAA  
TGCAACATGTTTATCTGTGTAATAATGGACTTCTGACAGCAAGTATATTATGTGTGGATCTGATG  
AAATGAACATTCGCCTGTGGAAAGCTAATGCTTCTGAAAAATTGGGTGTGCTTACATCACGA  
GAAAAAGCAGCCAAGGATTATAACCAGAAATTGAAGGAGAAATTTGAGCATTATCCTCATATA  
AAACGTATAGCTCGTCATCGACATCTACCAAATCTATCTATAGCCAGATTGAGGAACAGCG  
CATCATGAAAGAAGCTCGTCGACGAAAGGAAGTGAATCGTATTAAACACAGCAAGCCTGGAT  
CTGTGCCACTTGTGTGACAGAGAAGAAGAAACACGTAGTGGCAGTTGTAAAAATAATTGGTATTC  
CTAACAACTCCTGATGTATAATTATTTGTTACTTTTGATTTGAGAACTCTACAAATAAAAGTGCT  
GGGACTAGATTAATTGCAAACATTTTAGTTATATGTGTAGAGCTTTATTGTTACTCCTTTAGC  
TACCCTGAAAAATGATCCTTAAAGGTGGCCTAGTTGGTAAGACTGTTTTATCCTTAATCTGCA  
TTCTTCTTTCATTGTAGAATACAGTATTTGCAACTCATTTTTCTTGTTTTATTACAGATATAC  
TTACTTTCTCTTGTATCTATTATTGTAGACACTATACATTCAAATTGACATTTAAGACCAAACAT  
CTCTTATGTTATCTTAAATATTACTTTGAATAATGATTGCAATGATGTTTCTTCTGTGATTCCA  
CATAACATTTAGAATAATGATGTCAATTTTTACAACCTGAATTTATTTCTAGTGCTTTACTTATA  
TTTGGCTTTTTGACTCTTTTAAACAATCAGCCTGCATTTATATAACTTTTATAAATAATAATAT  
AATTTGGGTCAAGTTAAGATATTAAGTTCTTTTACGANNNNNNNNNNNNNNNNNNNNNNNN  
NNN  
>27

NCGCCTGTGGGAGGACGTCCGGGTGGGCGGAACCTCCTAGCGGACACCTCGTGGA  
GTCCGGCCGGAAGAGCAACCGAGATGAAGGTGAAGATGCTGAGCCGGAATCCGGACAATT  
ATGTCCGCGAAACCAAGTTGGACTTACAGAGAGTTCCAAGAACTATGATCCTGCTTTACAT  
CCTTTTGAGGTCCCACGAGAATATAGAAGCTTTAAATGCTACCAAACCTGGAACGAGTATTT  
GCAAAACCATTCCTTGCTTCGCTGGATGGTCACCGTATGGAGTCAATTGCTTGGCAAAGCA  
TCCAGAGAAGCTGGCTACTGTCTTTCTGGGGCGTGTGATGGAGAGGTTAGAATTTGGAAT  
CTAACTCAGCGGAATTGTATCCGTACAATACAAGCACATGAAGGCTTTGTACGAGGAATATG  
TACTCGCTTTTGTGGGACTTCTTTTTCTACTGTTGGTGATGACAAAACCTGTGAAGCAGTGGA  
AATGGATGGGCCAGGCTATGGAGACGAGGAAGCCATTACATACAATATTAGGAAAGACA  
GTGTATACTGGGATTGATCATCTACTGGAAAGAGCTGTTTTTGCACATGTGGACAGCAAGT  
AGACATTTGGGATGAACAAAGAACTAATCCTATATGTTCAATGACCTGGGGATTTGACAGTAT  
AAGTAGTGTTAAATTTAACCCAATTGAGACATTTCTCTTGGGAAGTTGTGCATCTGACAGGAA  
TATAGTACTGTACGATATGAGGCAAGCTACTCCTTTGAAAAAGGTTATCTTAGATATGAGAAC  
AAATACAATCTGTTGGAACCCTATGGAAGCTTTTCAATTTTACAGCAGCAAATGAAGATTATAA  
CTTATATACTTTTGATATGCGTGCACTGGACACTCCTGTAATGGTCCATATGGATCATGTATC  
TGCAGTGCTTGATGTGGATTACTCTCCCACTGGGAAGGAGTTTGTGTCTGCTAGTTTCGATA  
AATCTATTGCAATCTTTCTGTAGACAAAAGTCGAAGCAGGGAGGTATATCATACAAAGAGAA  
TGCAACATGTTATCTGTGTAATAATGGACTTCTGACAGCAAGTATATTATGTGTGGATCTGATG  
AAATGAACATTCGCCTGTGGAAAGCTAATGCTTCTGAAAAATTGGGTGTGCTTACATCACGA  
GAAAAAGCAGCCAAGGATTATAACCAGAAATTGAAGGAGAAATTTGAGCATTATCCTCATATA  
AAACGTATAGCTCGTCATCGACATCTACCAAATCTATCTATAGCCAGATTGAGGAACAGCG  
CATCATGAAAGAAGCTCGTCGACGAAAGGAAGTGAATCGTATTAAACACAGCAAGCCTGGAT  
CTGTGCCACTTGTGTGACAGAGAAGAAGAAACACGTAGTGGCAGTTGTAAAAATAATTGGTATTC  
CTAACAACTCCTGATGTATAATTATTTGTTACTTTTGATTTGAGAACTCTACAAATAAAAGTGCT  
GGGACTAGATTAATTGCAAACATTTTAGTTATATGTGTAGAGCTTTATTGTTACTCCTTTAGC  
TACCCTGAAAAATGATCCTTAAAGGTGGCCTAGTTGGTAAGACTGTTTTATCCTTAATCTGCA  
TTCTTCTTTCATTGTAGAATACAGTATTTGCAACTCATTTTTCTTGTTTTATTACAGATATAC  
TTACTTTCTCTTGTATCTATTATTGTAGACACTATACATTCAAATTGACATTTAAGACCAAACAT  
CTCTTATGTTATCTTAAATATTACTTTGAATAATGATTGCAATGATGTTTCTTCTGTGATTCCA  
CATAACATTTAGAATAATGATGTCAATTTTTACAACCTGAATTTATTCTAGTGCTTTACTTATA  
TTTGGCTTTTTGACTCTTTTAAACAATCAGCCTGCATTTATATAACTTTTATAAATAATAATAT



Table 4

AATGGATGGGCCAGGCTATGGAGACGAGGAAGAGCCATTACATACAATATTAGGAAAGACA  
GTGTATACTGGGATTGATCATCACTGGAAAGAAGCTGTTTTGCCACATGTGGACAGCAAGT  
AGACATTTGGGATGAACAAAGAAGCTAATCCTATATGTTCAATGACCTGGGGATTTGACAGTAT  
AAGTAGTGTTAAATTTAACCCAATTGAGACATTTCTCTTGGGAAGTTGTGCATCTGACAGGAA  
TATAGTACTGTACGATATGAGGCAAGCTACTCCTTTGAAAAAGGTTATCTTAGATATGAGAAC  
AAATACAATCTGTTGGAACCCCTATGGAAGCTTTCATTTTACAGCAGCAAATGAAGATTATAA  
CTTATATACTTTTGATATGCGTGCCTGGACACTCCTGTAATGGTCCATATGGATCATGTATC  
TGCAGTGCTTGATGTGGATTACTCTCCCACTGGGAAGGAGTTTGTGTCTGCTAGTTTCGATA  
AATCTATTGCAATCTTTCTGTAGACAAAAGTCGAAGCAGGGAGGTATATCATACAAAGAGAA  
TGCAACATGTTATCTGTGTAATGGACTTCTGACAGCAAGTATATTATGTGTGGATCTGATG  
AAATGAACATTCGCTGTGGAAAGCTAATGCTTCTGAAAAATTGGGTGTGCTTACATCACGA  
GAAAAAGCAGCCAAGGATTATAACCAGAAATTGAAGGAGAAATTTGAGCATTATCCTCATATA  
AAACGTATAGCTCGTCATCGACATCTACCAAATCTATCTATAGCCAGATTGAGGAACAGCG  
CATCATGAAAGAAGCTCGTCGACGAAAGGAAGTGAATCGTATTAAACACAGCAAGCCTGGAT  
CTGTGCCACTTGTGTCAGAGAAGAAGAAACACGTAAGTGGCAGTTGTAATAATTGGTATTC  
CTAACAATCCTGATGTATAATTATTTGTTACTTTTGATTTGAGAAGCTACAAATAAAGTGTCT  
GGGACTAGATTAATTGCAAACATTTTAGTTATATGTGTAGAGCTTTATTGTTACTCCTTTTAGC  
TACCCTGAAAAATGATCCTTAAAGGTGGCCTAGTTGGTAAGACTGTTTTATCCTTAATCTGCA  
TTCTTCTTTCATTGTAGATAACAGTATTTGCAACTCATTTTTCTTGTTTTATTACAGATATAC  
TTACTTTCTCTTTGATCTATTATTGTAGACACTATACATTCAAATTGACATTTAAGACCAAACAT  
CTCTTATGTTATCTTTAATATTACTTTGAATAATGATTGCAATGATGTTTCTTCTGTGATTCCA  
CATAACATTTAGAATAATGATGTCAATTTTTACAAGTGAATTTATTTCTAGTGCTTTACTTATA  
TTTGGCTTTTGAAGTCTTTTAAACAATCAGCCTGCATTTATATAACTTTTATAAATAATAATAT  
AATTTGGGTCAAGTTAAGATATTAAAGTTCCTTTCAGCANNNNNNNNNNNNNNNNNNNNNNN  
NNN

&gt;36

GGTACATTTGTGTTTTATTGTGAAGGGTCTCAACTGTGTGGCTGATTGAGGCTGTC  
CCCACGTCAATGTATGGAGAGGAGAGAAAGGGATGAAAGTGAAGGCAGGGGGGGGATGT  
TTGTTTCACGGGGTGAACCTTCTGCCTGAGCAAGTTGATGTTGGCTCCGAGGTATTTGGACA  
CTTTCTTTCAATACATTTTTATTTAGCACTTATTCTGTGTCTGCTGCCCTGGGATACCAGAGTG  
AATAAACAGATAAAAAGTCCCTGACCTTCTGGAGCATACAGTCTCTGGAGAGAAAATGGATA  
GATAAGCAGACTTTTATATATGAATAT

&gt;37

GTGGCGGCCGCCCGGGCAGGTACGCGGGGCAACATGGCGGCCTTAGCAAGCTA  
TAGCTGCGAGATTTGAATTAAGTCCACTCGTAGCTATTGCATTCTGACGATGGCCTCTGTGG  
CTTCGTGCGACCCGCGTCCGAGCTCAGACGAGCTCCCTGGAGACCCCTCTTACACAAGAAGA  
AGATGAGGACTATGATTTTGAAGATCGGGTCAGCGACTCGGGTTCATATTCTCAGCGAGTA  
CCGATTATGATGATCTTGAGCCTGAATGGCTGGACAGTGTGCAGAAAAATGGAGAGCTGTTT  
TATTTGGAATTGAGTGAGGATGAAGAAGAAAGCCTCCTTCTGAGACACCAACTGTGAACCA  
TGTCAGGTTCAAGTGAATGAGATTATCATTGAAGATGACTACCAAGAAAGAAAGAGTATGA  
ACCCAACTCAAGCAGTTTACCAAATTTTAAACAAGGAAAAGACTTTTACCCAAGCNC

&gt;38

CCGAGGTACTTAAGTTTTCTTCAGTTACAGCTACCACTGTGAAAAATAATTCTCTGCT  
TATCAAGTTTACAACCTTTAGAATTTCTGTTTTAAAGTTTTCTCATTTACTTATCACACAGTCAT  
CTTCTTTTGGCAAACGCTATAGTAGCACATTTAAAGGAGACTGATGTGGAATCAACTCTGTG  
CAAAAAGTATTGGGTGCTTTGGTAGAAGTCTATACAGAAGACACTGGAGACACAAAAATGAA  
TTTTGTCCAGGTGAGTTGATGTCAGAAAAGGCTTAATAATGGAGATGAGGCCGGGCATGGT  
GGTTCACACCTGTAATCCCACCTGTTTGGGAGGCTGAGGCAGGTAGATCACTTGAGACCAG  
GAGTTTGAGACCAGCCAGCCAACATGGAGAATCCTGTCTCCACTAAAAAAAAAAAAAAAAAA  
AAANNNNNNN

&gt;39

GGTGGCGGCCGCCCGGGCTGGTACGCGGGAAAGCAAAACGACAAGCACGCCCTG  
AGCAGAGCCCCGGGAATTCAACCTTTAAGTGGATAACTTGGCTTCTGGTTTGCCAAAGGAACC  
AGGGCATCAAACAGATGAAACAGCCTATTGTCCATTTCAACAGGATTTTTGAGGAGTGGGA  
TGATCTTTCAAATTATCCACAACCTTAATTATTTAATATTTTGATAGTCAATTACCTAAGACACG  
GCATCGTCACTGACCAATCAGAAGAGATGCCAGTAGTTGGGCGCAGTGGCAGCACTTTGGG

Table 4

AGGCTGAGTGGACAGATCACCTGGGGTCAGGAGTTCGAGACCAGCCTGGCCTACATGGTG  
AAACCCCATCTCTACTAAAAATACAAAAATGAGCCAGGCATGGGGGGCACCTGTAATCCCAG  
CTACTTGACAGAGTGAGCCTCTGTCTCAAAAAAAAAAAAAAAAAAAAAAANN  
>40

NNCACGCGTCCGGCTAATGAATCTTGGGGCCGGTGTCTGGGGCCGGGGCGGCTTGAT  
CGGCAACTAGGAAACCCAGGCGCAGAGGCCAGGAGCGAGGGCAGCGAGGATCAGAGGC  
CAGGCCTTCCCGGCTGCCGGCGCTCCTCGGAGGTGAGGGCAGATGAGGAACATGACTCTC  
CCCCTTCGGAGGAGGAAGGAAGTCCCGCTGCCACCTTATCTCTGCTCCTCTGCCTCCTCCC  
TGTTCCAGAGCTTTTTCTCTAGAGAAGATTTTGAAGGCGGCTTTTGTGCTGACGGCCACCC  
ACCATCATCTAAAGAAGATAAACTTGGCAAATGACATGCAGGTTCTTCAAGGCAGAATAATTG  
CAGAAAATCTTCAAAGGACCCTATCTGCAGATGTTCTGAATACCTCTGAGAATAGAGATTGAT  
TATTCAACCAGGATACCTAATTCAAGAACTCCAGAAATCAGGAGACGGAGACATTTTGTGAG  
TTTTGCAACATTGGACCAAATACAATGAAGTATTCTTGTGCTGTGCTCTGGTTTTGGCTGTCTG  
GGCAGAGAATTGCTGGGAAGCCTCTGTTGAGCTGTGAGATCCCCGAGGTTTCAAGGACGGA  
TACAGCAGGAACGAAAAACATCCGACCCAACATTATTCTTGTGCTTACCGATGATCAAGAT  
GTGGAGCTGGGGTCCCTGCAAGTCATGAACAAAACGAGAAAGATTATGGAACATGGGGGGG  
CCACCTTCATCAATGCCTTTGTGACTACACCCATGTGCTGCCCGTCACGGTCTCCATGCTC  
ACCGGGAAGTATGTGCACAATCACAATGTCTACACCAACAACGAGAACTGCTCTTCCCCCTC  
GTGGCAGGCCATGCATGAGCCTCGGACTTTTGTCTGTATATCTTAACAACACTGTACAGAA  
CAGCCTTTTTTGGAAAAACCTCAATGAATATAATGGCAGCTACATCCCCCTGGGTGGCGA  
GAATGGCTTGGATTAATCAAGAATTCTCGCTTCTATAATTACACTGTTTGTGCAATGGCATC  
AAAGAAAAGCATGGATTGATTATGCAAAGGACTACTTCACAGACTTAATCACTAACGAGAGC  
ATTAATTACTTCAAAATGTCTAAGAGAATGTATCCCCATAGGCCGTTATGATGGTGATCAGC  
CAGCTGCGCCCCACGGCCCCGAGGACTCAGCCCCACAGTTTTCTAAACTGTACCCCAATG  
CTTCCCAACACATAACTCCTAGTTATAACTATGCACCAAATATGGATAAAACACTGGATTATGC  
AGTACACAGGACCAATGCTGCCATCCACATGGAATTTACAAACATTCTACAGCGCAAAAGG  
CTCCAGACTTTGATGTGAGTGGATGATTCTGTGGAGAGGCTGTATAACATGCTCGTGGAGAC  
GGGGGAGCTGGAGAATACTTACATCATTACACCGCCGACCATGGTTACCATATTGGGCAGT  
TTGGAAGTGGTCAAGGGGAAATCCATGCCATGACTTTGATATTCTGTGCTGCTTTTTTTTATT  
GTGGTCCAAGTGTAGAACCAGGATCAATAGTCCACAGATCGTTCTCAACATTGACTTGGCC  
CCCACGATCCTGGATATTGCTGGGCTCGACACACCTCCTGATGTGGACGGCAAGTCTGTCC  
TCAAACTTCTGGACCCAGAAAAGCCAGGTAACAGGTTTCGAACAAACAAGAAGGCCAAAATT  
TGGCGTGATACATTCTAGTGGAAAGAGGCAAATTTCTACGTAAGAAGGAAGAAATCCAGCAA  
GAATATCCAACAGTCAAATCACTTGCCCAAATATGAACGGGTCAAAGAACTATGCCAGAGG  
CCAGGTACCAGACAGCCTGTGAACAACCGGGGCAGAAGTGGCAATGCATTGAGGATACATC  
TGGCAAGCTTCGAATTCACAAGTGTAAAGGACCCAGTGACCTGCTCACAGTCCGGCAGAGC  
ACGCGGAACCTCTACGCTCGCGGCTCCATGACAAAGACAAAGAGTGCAGTTGTAGGGAGT  
CTGGTTACCGTGCCAGCAGAAGCCAAAGAAAGAGTCAACGGCAATTCTTGAGAAACCAGGG  
GACTCCAAAGTACAAGCCAGATTTGTCCATCTCGGCAGACACGTTCTTGTCCGTGGAAT  
TTGAAGGTGAAATATATGACATAAATCTGGAAGAAGAAGAAGAAATTGCAAGTGTGCAACCA  
AGAAACATTGCTAAGCGTCATGATGAAGGCCACAAGGGGGCCAAGAGATCTCCAGGCTTCCA  
GTGGTGGCAACAGGGGCAGGATGCTGGCAGATAGCAGCAACGCCGTGGGCCACCTACCA  
CTGTCCGAGTGACACACAAGTGTATTCTTCCCAATGACTCTATCCATTGTGAGAGAGAAC  
TGTACCAATCGGCCAGAGCGTGGAAGGACCATAAGGCATACATTGACAAAGAGATTGAAGC  
TCTGCAAGATAAAATTAAGAATTTAAGAGAAGTGAGAGGACATCTGAAGAGAAGGAAGCCTG  
AGGAATGTAGCTGCAGTAAACAAAGCTATTACAATAAAGAGAAAGGTGTAAAAAAGCAAGAG  
AAATTAAGAGGCCATCTTACCCATTCAAGGAGGCTGCTCAGGAAGTAGATAGCAAACCTGCA  
ACTTTTCAAGGAGAACAACCGTAGGAGGAAGAAGGAGAGGAAGGAGAAGAGACGGCAGAG  
GAAGGGGGAAGAGTGCAGCCTGCCTGGCCTCACTTGCTTCACGCATGACAAACAACCACTGG  
CAGACAGCCCCGTTCTGGAACCTGGGATCTTCTGTGCTTGCACGAGTTCTAACAATAACAC  
CTACTGGTGTGTCGTACAGTTAATGAGACGCATAATTTTCTTTTCTGTGAGTTTGTACTGG  
CTTTTGGAGTATTTTGATATGAATACAGATCCTTATCAGCTCACAATAACAGTGCACACGGT  
AGAACGAGGCATTTTGAATCAGCTACACGTACAATAATGGAGCTCAGAAGCTGTCAAGGAT  
ATAAGCAGTGCACCAAGACCTAAGAACTTGTATGTTGGAAATAAAGATGGAGGAAGCTAT  
GACCTACACAGAGGACAGTTATGGGATGGATGGGAAGGTTAATCAGCCCCGTCTCACTGCA  
GACATCAACTGGCAAGGCCTAGAGGAGCTACACAGTGTGAATGAAAACATCTATGAGTACAG



Table 4

ACAAAACCTACAGACTTAGTCTGGTGGACTGGACTAATTACTTGAAGGATTTAGATAGAGTATT  
TGCACTGCTGAAGAGTCACTATGAGCAAAATAAAACAAATAAGACTCAAACCTGCTCAAAGTG  
ACGGGTTCTTGGTTGTCTCTGCTGAGCACGCTGTGTCAATGGAGATGGCCTCTGCTGACTC  
AGATGAAGAGACCCAAGGCATAAGGTTGGGAAAACACCTCATTTGACCTTGCCAGCTGACCTTC  
AAACCCTGCATTTGAACCGACCAACATTAAGTCCAGAGAGTAAACTTGAATGGAATAACGAC  
ATTCCAGAAGTTAATCATTGAATTCTGAACACTGGAGAAAAACCGAAAAATGGACGGGGCA  
TGAAGAGACTAATCATCTGGAACCGATTTCACTGGCGATGGCATGACAGAGCTAGAGCTC  
GGGCCAGCCCCAGGCTGCAGCCCATTTCGAGGCACCCGAAAGAACTTCCCCAGTATGGT  
GGTCTTGAAAAGGACATTTTTGAAGATCAACTATATCTTCTGTGCATTCCGATGGAATTTCA  
GTTTCATCAGATGTTCCACCATGGCCACCGCAGAACACCGAAGTAATTCAGCATAGCGGGGA  
AGATGTTGACCAAGGTGGAGAAGAATCACGAAAAGGAGAAGTCACAGCACCTAGAAGGCAG  
CGCCTCTCTTCACTCTCCTCTGATTAGATGAACTGTTACCTTACCCTAAACACAGTATTTT  
TTTTAACTTTTTTATTTGTAACCTAATAAAGGTAATCACAGCCACCAACATTCCAAGCTACCC  
TGGGTACCTTTGTGCAGTAGAAGCTAGTGAGCATGTGAGCAAGCGGTGTGCACACGGAGAC  
TCATCGTTATAATTTACTATCTGCCAAGAGTAGAAAGAAAGGCTGGGGATATTTGGGTTGGC  
TTGGTTTTGATTTTTGCTTGTGTTGTTTGTACTAAAACAGTATTATCTTTTGAATATCGT  
AGGGACATAAGTATATACATGTTATCCAATCAAGATGGCTATAATGGGCTTTCTCAGAGATAA  
AACTTGACCCCCGTGTCAAATTGACATCACACTCTGCATGTCTGCGTAATGAAGGTACGATG  
CAACTATAACCAAGTGCAATATGACACTGACACTATATTAATTCATAATAACNN

&gt;41

ACACGTGCACATTGTGCAGGTTAGTTACATATGTATACATGAGCCATGCTGGTGGCG  
TGCACCATGGCACATGCATATCTATGTAACAACTTGCATGTTCTGCACATGTATCACAGAAC  
TTAAAGTGTAATAAAAAAAGAAAGAAAAACAGCATGCAATTCAGCCCACACAAAAAAGAAAG  
TCAAAGACAGCGAATTCTTAAACAGCAATAAAAAAGTATAAAGTCACTCTAAAGGAATCCC  
CGTTAGATTAACAACACATTTCTTAAGAGAAATCTAACAGGCCAGGAGAGAATGGGATGACA  
TATTCAAAGTGTTAAAGGGGGGGAAAAAACTCCACTCAAGACTACACCCAGAAAAGCTATCT  
TTCAGAAATGGAGATAAAAAACATCTTTCCAGACAAAGAAAACTAAGAGAATTTACTACCAC  
TCACCAGCCTTACCAAAAAATGCCCAAGGGAGTCTCATCTAAAGCAAAACGACAATCATC  
ACGAAAACATGCAAAAGCATAAACTAATTGT

&gt;42

NCGCCTGTGGGAGGACGTCCGGGTGGGCGGAACTCCTAGCGGACACCTCGTGGA  
GTCCGGCCGGAAGAGCAACCGAGATGAAGGTGAAGATGCTGAGCCGGAATCCGGACAATT  
ATGTCCGCGAAACCAAGTTGGACTTACAGAGAGTTCCAAGAACTATGATCCTGCTTTACAT  
CTTTTGGAGTCCCACGAGAATATATAAGAGCTTTAAATGCTACCAAACTGGAACGAGTATTT  
GCAAAACCATTCCTTGCTTCGCTGGATGGTCACCGTGATGGAGTCAATTGCTTGGCAAAGCA  
TCCAGAGAAGCTGGCTACTGTCTTTCTGGGGCGTGTGATGGAGAGGTTAGAATTTGGAAT  
CTAACTCAGCGGAATTGTATCCGTACAATACAAGCACATGAAGGCTTTGTACGAGGAATATG  
TACTCGCTTTTGTGGGACTTCTTTTTCACTGTTGGTGATGACAAAACCTGTGAAGCAGTGGAA  
AATGGATGGGCCAGGCTATGGAGACGAGGAAGGCCATTACATACAATATTAGGAAAAGACA  
GTGTATACTGGGATTGATCATCACTGGAAAGGCTGTTTTTGCACATGTGGACAGCAAGT  
AGACATTTGGGATGAACAAAGAACTAATCCTATATGTTCAATGACCTGGGGATTTGACAGTAT  
AAGTAGTGTTAAATTTAACCCTAATTGAGACATTTCTCTTGGGAAGTTGTGCATCTGACAGGAA  
TATAGTACTGTACGATATGAGGCAAGCTACTCCTTTGAAAAAGGTTATCTTAGATATGAGAAC  
AAATACAATCTGTTGGAACCCCTATGGAAGCTTTCATTTTTACAGCAGCAAATGAAGATTATAA  
CTTATATACTTTTATATGCGTGCATGGACACTCCTGTAATGGTCCATATGGATCATGTATC  
TGCAGTGCTTGATGTGGATTACTCTCCCACTGGGAAGGAGTTTGTGTCTGCTAGTTTCGATA  
AATCTATTTCGAATCTTTCTGTAGACAAAAGTCAAGCAGGGAGGTATATCATACAAAGAGAA  
TGCAACATGTTATCTGTGTAATGGAATCTGTGACAGCAAGTATATTATGTGTGGATCTGATG  
AAATGAACATTCGCCTGTGGAAAGCTAATGCTTCTGAAAAATTGGGTGTGCTTACATCACGA  
GAAAAAGCAGCCAAGGATTATAACCAGAAATTAAGGAGAAATTTAGCATTATCCTCATATA  
AAACGTATAGCTCGTCATCGACATCTACCAAAATCTATCTATAGCCAGATTCAGGAACAGCG  
CATCATGAAAGAAGCTCGTCGACGAAAGGAAGTGAATCGTATTAAACACAGCAAGCCTGGAT  
CTGTGCCACTTGTGTGAGAGAAGAAGAAACACGTAGTGGCAGTTGTAATAAATGGTATTC  
CTAAACAATCCTGATGTATAATTTGTTACTTTTGATTTGAGAACTCTACAAATAAAAGTGCT  
GGGACTAGATTAATTGCAAAACATTTAGTTATATGTGTAGAGCTTTATTGTTACTCCTTTAGC  
TACCCTGAAAAATGATCCTTAAGGTGGCCTAGTTGGTAAGACTGTTTTATCCTTAATCTGCA

Table 4

TTCTTCTTTCATTGTAGAATACAGTATTTGCAACTCATTTTTCTTGTTTTATTACAGATATAC  
 TTACTTTCTCTTTGATCTATTATTGTAGACACTATACATTCAAATTGACATTTAAGACCAAACAT  
 CTCTTATGTTATCTTTAATATTACTTTGAATAATGATTGCAATGATGTTTCTTCCTGTGATTCCA  
 CATAACATTTAGAATAATGATGTCAATTTTTTACAACGAATTTATTTCTAGTGCTTTACTTATA  
 TTTGGCTTTTTGACTCTTTTAAAACAATCAGCCTGCATTTATATAACTTTTATAAATAATAATAT  
 AATTTGGGTCAAGTTAAGATATTAAGTTCTTTTCAGCANNNNNNNNNNNNNNNNNNNNNNNN  
 NNN

&gt;43

NCGCCTGTGGGAGGACGTCCGGGTGGGCGGAACTCCTAGCGGACACCTCGTGGA  
 GTCCGGCCGGAAGAGCAACCGAGATGAAGGTGAAGATGCTGAGCCGGAATCCGGACAATT  
 ATGTCCGCGAAACCAAGTTGGACTTACAGAGAGTTCCAAGAACTATGATCCTGCTTTACAT  
 CCTTTTGAGGTCCACGAGAATATATAAGAGCTTTAAATGCTACCAAACCTGGAACGAGTATTT  
 GCAAAACCATTCCTTGCTTCGCTGGATGGTCACCGTGATGGAGTCAATTGCTTGGCAAAGCA  
 TCCAGAGAAGCTGGCTACTGTCTTTCTGGGGCGTGTGATGGAGAGGTTAGAATTTGGAAT  
 CTAACCTCAGCGGAATTGTATCCGTACAATAAAGCACATGAAGGCTTTGTACGAGGAATATG  
 TACTCGCTTTTGTGGGACTTCTTTTTTCACTGTTGGTGATGACAAAACCTGTGAAGCAGTGGAA  
 AATGGATGGGCCAGGCTATGGAGACGAGGAAGAGCCATTACATACAATATTAGGAAAGACA  
 GTGTATACTGGGATTGATCATCACTGGAAAGAAGCTGTTTTTGGCACATGTGGACAGCAAGT  
 AGACATTTGGGATGAACAAAGAATAATCCTATATGTTCAATGACCTGGGGATTGTGACAGTAT  
 AAGTAGTGTTAAATTTAACCCAATTGAGACATTTCTCTTGGGAAGTTGTGCATCTGACAGGAA  
 TATAGTACTGTACGATATGAGGCAAGCTACTCCTTTGAAAAAGGTTATCTTAGATATGAGAAC  
 AAATACAATCTGTTGGAACCTATGGAAGCTTTTCAATTTTACAGCAGCAAATGAAGATTATAA  
 CTTATATACTTTTATATGCGTGCCTGGACACTCCTGTAATGGTCCATATGGATCATGTATC  
 TGCAGTGCTTGATGTGGATTACTCTCCCACTGGGAAGGAGTTTGTGTCTGCTAGTTTCGATA  
 AATCTATTGGAATCTTTCTGTAGACAAAAGTCGAAGCAGGGAGGTATATCATACAAAGAGAA  
 TGCAACATGTTATCTGTGTAAATGGACTTCTGACAGCAAGTATATTATGTGTGGATCTGATG  
 AAATGAACATTCGCCTGTGGAAAGCTAATGCTTCTGAAAAATTGGGTGTGCTTACATCACGA  
 GAAAAAGCAGCCAAGGATTATAACCAAGAAATTGAAGGAGAAATTTGAGCATTATCCTCATATA  
 AAACGTATAGCTCGTCATCGACATCTACCAAAATCTATCTATAGCCAGATTGAGGAACAGCG  
 CATCATGAAAGAAGCTCGTCGACGAAAGGAAGTGAATCGTATTAACACAGCAAGCCTGGAT  
 CTGTGCCACTTGTGTGACAGAGAAGAAGAAACACGTAGTGGCAGTTGTAAATAATTGGTATTC  
 CTAACAATCCTGATGTATAATTATTTGTTACTTTTGATTTGAGAACTCTACAAATAAAAGTGCT  
 GGGACTAGATTAATTGCAACATTTTGTATATGTGTAGAGCTTTATTGTTACTCCTTTTAGC  
 TACCCTGAAAAATGATCCTTAAAGGTGGCCTAGTTGGTAAGACTGTTTTATCCTTAATCTGCA  
 TTCTTCTTTCATTGTAGAATACAGTATTTGCAACTCATTTTTCTTGTTTTATTACAGATATAC  
 TTACTTTCTCTTTGATCTATTATTGTAGACACTATACATTCAAATTGACATTTAAGACCAAACAT  
 CTCTTATGTTATCTTTAATATTACTTTGAATAATGATTGCAATGATGTTTCTTCCTGTGATTCCA  
 CATAACATTTAGAATAATGATGTCAATTTTTTACAACGAATTTATTTCTAGTGCTTTACTTATA  
 TTTGGCTTTTTGACTCTTTTAAAACAATCAGCCTGCATTTATATAACTTTTATAAATAATAATAT  
 AATTTGGGTCAAGTTAAGATATTAAGTTCTTTTCAGCANNNNNNNNNNNNNNNNNNNNNNNN  
 NNN

&gt;44

&gt;45

&gt;46

&gt;47

&gt;48

NAGTATTGGTTCTGCTGGCAGATGCCCTGTGCTGGGGTCTAGATGACGTGGTGGGC  
 TTCATGCACAATGCCAGGCTGGACATAAGCAGGGCCTCAGCACTGTCAGCAACAGTGGAC  
 TGACTGCGGAGGACCGGCAGCTGACTGCACGGGCCGAGCCTGGAACAACCTGGACTGGG  
 CTCTCTATGTCCACTTCAACCGCAGTCTCTGGGCACGGATAGAGAAATACGGCCAGGGCCG  
 GCTGCAGACAGCTGTGGCCGAGCTCCGGGCTCGCCGAGAGGCCCTAGCGAAACATTGTCT  
 GGTAGGGGGGTGAGGCTTCTGACCCCAAATACATCACTGATCGCCGTTCCGCCCTTCCAG  
 TTTGGGTGAGCTAAGGTTTTGGGCTATATACTTCGGAGTGGATTGAGCCCCCAAGACCAAGA  
 GGAATGTGAGCGCCTAGCTACCCCTGAGCTCAGTACAAGGACAAGCTGGATGCCAAGCAG  
 TTCCCCCTACCGTCTCACTGCCCTCAAGACTTCAAGGCCACTCTCCCATAAACATCAGA  
 CTACAGATTTAGGTGGAAGAGCAGCCATGTTGAAGGGCACATGTGATGAGTGGGGGGCAG

Table 4

CAAGATGCCATTTCTGCATCTCCCAGAAGGGATGAGTCTTTGTCCCGATGCAAGCCCCCTCT  
TCGCTGGGCTCCCAGCAGTGCCTCCCTCCTCCACCCTCCACTCATTTTGTCTTTCCCCCA  
ACTTTTTTTTTTTTTTGAACGGAGTCTTGCTCTGTCCCCAGGCTGGAGTGCAAGTGGCATGA  
TCTCGGCTCACTGCAACCTCTGCCTCCCAGGTTCAAGCGATCTCCTGCCTCAGCCTCCAGA  
NN

&gt;49

NNCACGCGTCCGGCTAATGAATCTTGGGGCCGGTGTCCGGCCGGGGCGGCTTGAT  
CGGCAACTAGGAAACCCAGGCGCAGAGGCCAGGAGCGAGGGCAGCGAGGATCAGAGGC  
CAGGCCTTCCCGGCTGCCGGCGCTCCTCGGAGGTCAGGGCAGATGAGGAACATGACTCTC  
CCCCTTCGGAGGAGGAAGGAAGTCCCGCTGCCACCTTATCTCTGCTCCTCTGCCTCCTCCC  
TGTTCCCAGAGCTTTTTCTCTAGAGAAGATTTGAAGGCGGCTTTGTGCTGACGGCCACCC  
ACCATCATCTAAAGAAGATAAACTTGGCAAATGACATGCAGGTTCTTCAAGGCAGAATAATTG  
CAGAAAATCTTCAAAGGACCCTATCTGCAGATGTTCTGAATACCTCTGAGAATAGAGATTGAT  
TATTCAACCAGGATACCTAATTCAAGAACTCCAGAAATCAGGAGACGGAGACATTTTGTGAG  
TTTTGCAACATTGGACCAAATACAATGAAGTATTCTTGCTGTGCTCTGGTTTTGGCTGTCTG  
GGCACAGAATTGCTGGGAAGCCTCTGTTGCACTGTGAGATCCCCGAGGTTTCAAGGACGGA  
TACAGCAGGAACGAAAAACATCCGACCCAACATTATTCTTGCTTACCGATGATCAAGAT  
GTGGAGCTGGGGTCCCTGCAAGTCATGACAAAAACGAGAAAGATTATGGAACATGGGGGGG  
CCACCTTCATCAATGCCTTTGTGACTACACCCATGTGCTGCCCGTCACGGTCCCTCATGCTC  
ACCGGGAAGTATGTGCACAATCACAATGTCTACACCAACAACGAGAACTGCTCTTCCCCCTC  
GTGGCAGGCCATGCATGAGCCTCGGACTTTTGTGCTGTATATCTTAACAACACTGGCTACAGAA  
CAGCCTTTTTTGGAAAATACCTCAATGAATATAATGGCAGCTACATCCCCCTGGGTGGCGA  
GAATGGCTTGGATTAATCAAGAATTCTCGCTTCTATAATTACACTGTTTGTGCAATGGCATC  
AAAGAAAAGCATGGATTTGATTATGCAAAGGACTACTTCACAGACTTAATCACTAACGAGAGC  
ATTAATTACTTCAAATGTCTAAGAGAATGTATCCCCATAGGCCCGTTATGATGGTGATCAGC  
CACGCTGCGCCCCACGGCCCCGAGGACTCAGCCCCACAGTTTTCTAAACTGTACCCCAATG  
CTTCCCAACACATAACTCCTAGTTATAACTATGCACCAAATATGGATAAACACTGGATTATGC  
AGTACACAGGACCAATGCTGCCATCCACATGGAAATTTACAAACATTCTACAGCGCAAAAGG  
CTCCAGACTTTGATGTGAGTGGATGATTCTGTGGAGAGGCTGTATAACATGCTCGTGGAGAC  
GGGGGAGCTGGAGAATACTTACATCATTACACCGCCGACCATGGTTACCATATTGGGCAGT  
TTGGACTGGTCAAGGGGGAATCCATGCCATATGACTTTGATATTCTGTGCTTTTTTTTATTC  
GTGGTCCAAGTGTAGAACCAGGATCAATAGTCCCACAGATCGTTCTCAACATTGACTTGGCC  
CCCACGATCCTGGATATTGCTGGGCTCGACACACCTCCTGATGTGGACGGCAAGTCTGTCC  
TCAAACCTTCTGGACCCAGAAAAGCCAGGTAACAGGTTTGAACAAACAAGAAGGCCAAAATT  
TGGCGTGATACATTCTAGTGGAAGAGGCAAAATTTCTACGTAAGAAGGAAGAATCCAGCAA  
GAATATCCAACAGTCAAATCACTTGCCCAAATATGAACGGGTCAAAGAAGTATGCCAGCAGG  
CCAGGTACCAGACAGCCTGTGAACAACCGGGGCGAGAAGTGGCAATGCATTGAGGATACATC  
TGGCAAGCTTCAATTACAAAGTGTAAGGACCCAGTGACCTGCTCAGAGTCCGGCAGAGC  
ACGCGGAACCTCTACGCTCGCGGCTTCCATGACAAAGACAAAGAGTGCAAGTTGTAGGGAGT  
CTGGTTACCGTGCCAGCAGAAGCCAAAGAAAGAGTCAACGGCAATTCTTGAGAAACCAGGG  
GACTCCAAAGTACAAGCCCAGATTTGTCCATACTCGGCAGACACGTTCTTGTCCGTGCAAT  
TTGAAGGTGAAATATATGACATAAATCTGGAAGAAGAAGAATTGCAAGTGTGCAACCA  
AGAAACATTGCTAAGCGTCATGATGAAGGCCACAAGGGGCCAAGAGATCTCCAGGCTTCCA  
GTGGTGGCAACAGGGGCAGGATGCTGGCAGATAGCAGCAACGCCGTGGGCCACCTACCA  
CTGTCCGAGTGACACACAAGTGTATTCTTCCCAATGACTCTATCCATTGTGAGAGAGAAC  
TGTACCAATCGGCCAGAGCGTGAAGGACCATAAGGCATACATTGACAAAGAGATTGAAGC  
TCTGCAAGATAAAATTAAGAATTTAAGAGAAGTGAGAGGACATCTGAAGAGAAGGAAGCCTG  
AGGAATGTAGTGCAGTAAACAAAGCTATTACAATAAAGAGAAAGGTGAAAAAGCAAGAG  
AAATTAAGAGCCATCTTACCCATTCAAGGAGGCTGCTCAGGAAGTAGATAGCAAACCTGCA  
ACTTTTCAAGGAGAACAACCGTAGGAGGAAGAAGGAGAGGAAGGAGAAGAGACGGCAGAG  
GAAGGGGGGAAGAGTGACAGCTGCCTGGCCTCACTTGCTTACGCATGACAACAACCACTGG  
CAGACAGCCCCGTTCTGGAACCTGGGATCTTTCTGTGCTTGCACGAGTTCTAACATAACAC  
CTACTGGTGTGTTGCGTACAGTTAATGAGACGCATAATTTCTTTCTGTGAGTTTGCTACTGG  
CTTTTGGAGTATTTGATATGAATACAGATCCTTATCAGCTCACAATAACAGTGCAACCGT  
AGAACGAGGCATTTTGAATCAGCTACACGTACAATAATGGAGCTCAGAAGCTGTCAAGGAT  
ATAAGCAGTGCAACCCAAGACCTAAGAATCTTGATGTTGGAAATAAAGATGGAGGAAGCTAT

Table 4

GACCTACACAGAGGACAGTTATGGGATGGATGGGAAGGTTAATCAGCCCCGTCTCACTGCA  
GACATCAACTGGCAAGGCCTAGAGGAGCTACACAGTGTGAATGAAAACATCTATGAGTACAG  
ACAAAACCTACAGACTTAGTCTGGTGGACTGGACTAATTACTTGAAGGATTTAGATAGAGTATT  
TGCACTGCTGAAGAGTCACTATGAGCAAAATAAAACAAATAAGACTCAAACCTGCTCAAAGTG  
ACGGGTTCTTGGTTGTCTCTGCTGAGCAGCTGTGTCAATGGAGATGGCCTCTGCTGACTC  
AGATGAAGACCCCAAGGCATAAGGTTGGGAAAACACCTCATTGACCTTGCCAGCTGACCTTC  
AAACCCTGCATTTGAACCGACCAACATTAAGTCCAGAGAGTAAACTTGAATGGAATAACGAC  
ATTCCAGAAGTTAATCATTGAATTCTGAACACTGGAGAAAAACCGAAAAATGGACGGGGCA  
TGAAGAGACTAATCATCTGGAACCGATTTCACTGGCGATGGCATGACAGAGCTAGAGCTC  
GGGCCAGCCCCAGGCTGCAGCCCATTCGCAGGCACCCGAAAGAACTTCCCCAGTATGGT  
GGTCCTGGAAGGACATTTTGAAGATCACTATATCTTCTGTGCATTCCGATGGAATTTCA  
GTTTCATCAGATGTTTACCATGGCCACCGCAGAACACCGAAGTAATTCAGCATAGCGGGGA  
AGATGTTGACCAAGGTGGAGAAGAATCACGAAAAGGAGAAGTCACAGCACCTAGAAGGCAG  
CGCCTCCTCTTCACTCTCCTCTGATTAGATGAACTGTTACCTTACCCTAAACACAGTATTTT  
TTTTTAACTTTTTTATTTGTAACTAATAAAGGTAATCACAGCCACCAACATTTCCAAGCTACCC  
TGGGTACCTTTGTGCAGTAGAAGCTAGTGAGCATGTGAGCAAGCGGTGTGCACACGGAGAC  
TCATCGTTATAATTTACTATCTGCCAAGAGTAGAAAGAAAGGCTGGGGATATTTGGGTTGGC  
TTGGTTTTGATTTTTGCTTGTTGTTGTTTGTACTAAAACAGTATTATCTTTGAATATCGT  
AGGGACATAAGTATATACATGTTATCCAATCAAGATGGCTATAATGGGCTTTCTCAGAGATAA  
AACTTGACCCCCGTGTCAAATTGACATCACACTCTGCATGTCTGCGTAATGAAGGTACGATG  
CAACTATAACCAGTGCAATATGACACTGACACTATATTAATTCAATAATACNN  
>50

NCGCCTGTGGGAGGACGTCCGGGTGGGCGGAACTCCTAGCGGACACCTCGTGGA  
GTCCGGCCGGAAGAGCAACCGAGATGAAGGTGAAGATGCTGAGCCGGAATCCGGACAATT  
ATGTCCGCGAAACCAAGTTGGACTTACAGAGAGTTCCAAGAACTATGATCCTGCTTTACAT  
CCTTTTGAGGTCCACGAGAATATATAAGAGCTTTAAATGCTACCAAACCTGGAACGAGTATT  
GCAAAACCATTTCCTTGCCTCGCTGGATGGTCACCGTGATGGAGTCAATTGCTTGGCAAAGCA  
TCCAGAGAAGCTGGCTACTGTCCTTTCTGGGGCGTGTGATGGAGAGGTTAGAATTTGGAAT  
CTAACTCAGCGGAATTGTATCCGTACAATAACAAGCACATGAAGGCTTTGTACGAGGAATATG  
TACTCGCTTTTGTGGGACTTCTTTTTCTACTGTTGGTGATGACAAAACCTGTGAAGCAGTGGA  
AATGGATGGGCCAGGCTATGGAGACGAGGAAGAGCCATTACATACAATATTAGGAAAGACA  
GTGTATACTGGGATTGATCATCACTGGAAAGAAGCTGTTTTTGGCACATGTGGACAGCAAGT  
AGACATTTGGGATGAACAAAGAACTAATCCTATATGTTCAATGACCTGGGGATTTGACAGTAT  
AAGTAGTGTTAAATTTAACCCAATTGAGACATTTCTCTTGGGAAGTTGTGCATCTGACAGGAA  
TATAGTACTGTACGATATGAGGCAAGCTACTCCTTTGAAAAAGGTTATCTTAGATATGAGAAC  
AAATACAATCTGTTGGAACCTATGGAAGCTTTCATTTTTACAGCAGCAAAATGAAGATTATAA  
CTTATATACTTTTGATATGCGTGCACCTGGACACTCCTGTAATGGTCCATATGGATCATGTATC  
TGCAGTGCTTGATGTGGATTACTCTCCCACTGGGAAGGAGTTTGTGTCTGCTAGTTTCGATA  
AATCTATTGCAATCTTTCTGTAGACAAAAGTCGAAGCAGGGAGGTATATCATACAAAGAGAA  
TGCAACATGTTATCTGTGTAATAATGGACTTCTGACAGCAAGTATATTATGTGTGGATCTGATG  
AAATGAACATTCGCCTGTGGAAGCTAATGCTTCTGAAAAATTGGGTGTGCTTACATCACGA  
GAAAAAGCAGCCAAGGATTATAACCAGAAATTGAAGGAGAAATTTAGCATTATCCTCATATA  
AAACGTATAGCTCGTCATCGACATCTACCAAAATCTATCTATAGCCAGATTCAGGAACAGCG  
CATCATGAAAGAAGCTCGTCGACGAAAGGAAGTGAATCGTATTAACACAGCAAGCCTGGAT  
CTGTGCCACTTGTGTGAGAGAAGAAGAAACACGTAGTGGCAGTTGTAATAAATTTGGTATTC  
CTAACAATCCTGATGTATAATTATTTGTTACTTTTGATTGAGAACTCTACAAATAAAAGTGCT  
GGGACTAGATTAATTGCAAACATTTTAGTTATATGTGTAGAGCTTTATTGTTACTCCTTTAGC  
TACCCTGAAAAATGATCCTTAAAGGTGGCCTAGTTGGTAAGACTGTTTTATCCTTAATCTGCA  
TTCTTCTTTTATTGTAGAATACAGTATTTGCAACTCATTTTTCTTGTTTTTATTACAGATATAC  
TTACTTTCTCTTTGATCTATTATTGTAGACACTATACATTCAAATTGACATTTAAGACCAACAT  
CTCTTATGTTATCTTTAATATTACTTTGAATAATGATTGCAATGATGTTTCTTCTGTGATTCCA  
CATAACATTTAGAATAATGATGTCAATTTTTACAACCTGAATTTATTCTAGTGCTTTACTTATA  
TTTGGCTTTTTGACTCTTTTAAACAATCAGCTGCAATTTATATAACTTTTATAAATAAATAT  
AATTTGGGTCAAGTTAAGATATTAAGGTTCTTTTTCAGCANNNNNNNNNNNNNNNNNNNNNN  
NNN

Table 4

&gt;51

GCGGCCGAGGTACCTCAGCATATATTGGAAGTGTTTTAGAGTTGGTGAGTTCCTCCG  
TGCTTCCAGAACTGAACGCTAGGAGGAGCAGCCAGTGAGGACAGACGTCTATGCAGAAAC  
ATGGGGAACCTCTGGAAATGACACACTCTCCGGGCACAGGGGGCCATTCTGTCATCTTGAG  
GTGGACTAATCATGGAGATTCTCGCAGGGCCGGCTGCTATCTCAGATTTCTAATCGGAGAA  
GGAGAGAGATCAACTTCCATCGACTCCAGTCTGTCCGGGGGCTGATGAGTGAGGTGGCAGCA  
GGCATCCGCGTGGATTGTGAAACTGGACTTTTTATTGTGCTGAAAGCTGCTTGTGTGAT  
GATCTCATACTTTGTAGTTGTTCTATCTGCAGCACTGACTTCATAAGGGATTCTTCCAACCTA  
GAAATCTTTTCTCTATAGAAGGCTAACAATCTCTTCTGTGTTTTCTTGAAATCTAAATCT  
GGGAGTTTTCCCTGGAGTACTTCTTACACAGACTGTCTATGCTCATGAAGAATGCCTGGATA  
TCTGCGTCAGTATGCTTTGAAAGCAAACTGTACGACAAGGAGCTTTACAAATCAAGCATTCA  
TTCTTTTACCTTTGCCGAGGCAGGCGTCGCAGTACACGTGCCCCGAGTTGGTGAGGCTGC  
CGCGCGAGCTCTGTGGGGCGCCTGGAAGCAGCGATTTTCAAGAACCCAGTTGACCATGC  
CAGGCGGGCGACCGCAGCGGCGAGGCCGGG

&gt;52

&gt;53

NGCCTGTGGGAGGACGTCCGGGTGGGCGGAACTCCTAGCGGACACCTCGTGGA  
GTCCGGCCGGAAGAGCAACCGAGATGAAGGTGAAGATGCTGAGCCGGAATCCGGACAATT  
ATGTCCGCGAAACCAAGTTGGACTTACAGAGAGTTCCAAGAACTATGATCCTGCTTTACAT  
CCTTTTGAGGTCCACGAGAATATATAAGAGCTTTAAATGCTACCAAACCTGGAACGAGTATTT  
GCAAACCATTCCTTGCTTCGCTGGATGGTCACCGTGATGGAGTCAATTGCTTGGCAAAGCA  
TCCAGAGAAGCTGGCTACTGTCTTTCTGGGGCGTGTGATGGAGAGGTTAGAATTTGGAAT  
CTAACTCAGCGGAATTGTATCCGTACAATAACAAGCACATGAAGGCTTTGTACGAGGAATATG  
TACTCGCTTTTGTGGGACTTCTTTTTTCACTGTTGGTGATGACAAAACCTGTGAAGCAGTGGA  
AATGGATGGGCCAGGCTATGGAGACGAGGAAGAGCCATTACATACAATATTAGGAAAGACA  
GTGTATACTGGGATTGATCATCACTGGAAAGAAGCTGTTTTTGCCACATGTGGACAGCAAGT  
AGACATTTGGGATGAACAAAGAACTAATCCTATATGTTCAATGACCTGGGGATTGACAGTAT  
AAGTAGTGTTAAATTTAACCCAATTGAGACATTTCTCTTGGGAAGTTGTGCATCTGACAGGAA  
TATAGTACTGTACGATATGAGGCAAGCTACTCCTTTGAAAAGGTTATCTTAGATATGAGAAC  
AAATACAACTCTGTTGGAACCTATGGAAGCTTTTCAATTTTACAGCAGCAAATGAAGATTATA  
CTTATATACTTTTGATATGCGTGCAGTGGACACTCCTGTAATGGTCCATATGGATCATGTATC  
TGCAGTGCTTGATGTGGATTACTCTCCACTGGGAAGGAGTTTGTGTCTGCTAGTTTCGATA  
AATCTATTGAAATCTTTCTGTAGACAAAAGTGAAGCAGGGAGGTATATCATACAAAGAGAA  
TGCAACATGTTATCTGTGTAATGGACTTCTGACAGCAAGTATATTATGTGTGGATCTGATG  
AAATGAACATTCGCTGTGGAAGCTAATGCTTCTGAAAAATTGGGTGTGCTTACATCACGA  
GAAAAAGCAGCCAAGGATTATAACCAGAAATTGAAGGAGAAATTTGAGCATTATCCTCATATA  
AAACGTATAGCTCGTCATCGACATCTACCAAAATCTATCTATAGCCAGATTCAGGAACAGCG  
CATCATGAAAGAAGCTCGTCGACGAAAGGAAGTGAATCGTATTAAACACAGCAAGCCTGGAT  
CTGTGCCACTTGTGTGAGAGAAGAAGAAACACGTAGTGGCAGTTGTAAAAATAATTGGTATTC  
CTAACAATCCTGATGTATAATTATTTGTTACTTTTGATTGAGAACTCTACAAATAAAAGTGCT  
GGGACTAGATTAATTGCAACATTTTATGTTATATGTGTAGAGCTTTATTGTTACTCCTTTTAGC  
TACCCTGAAAAATGATCCTTAAAGGTGGCCTAGTTGGTAAGACTGTTTTATCCTTAATCTGCA  
TTCTTTCTTTCATTGTAGAATACAGTATTTGCAACTCATTTTTTCTTGTTTTTATTACAGATATAC  
TTACTTTCTCTTTGATCTATTATTGTAGACACTATACATTCAAATTGACATTTAAGACCAACAT  
CTCTTATGTTATCTTTAATATTACTTTGAATAATGATTGCAATGATGTTTCTTCTGTGATTCCA  
CATAACATTTAGAATAATGATGTCAATTTTTACAACGAATTTATTTCTAGTGCTTTACTTATA  
TTTGGCTTTTGACTCTTTTAAACAATCAGCCTGCATTTATATAACTTTTATAAATAATAATAT  
AATTTGGGTCAAGTTAAGATATTTAAAGTTCTTTTCAGCANNNNNNNNNNNNNNNNNNNNNN  
NNN

&gt;54

NAGATGGGTTGGCTGCAGTAGTGAGAGGCTGGGGGTGCGGCTCTTTCCCTGCAGT  
CCTGCCGAGGAAGCGTGCGTCCCTGGCGTCTCTTCTCTTCCGGCGGAGAGCTTGGGA  
TGTGGTAATGCCAGCCACACTCCTCAGAGCCGTGGCCAGATCTCATCATATATTATCAAAAG  
CACATCAGTGCCGAAGAATCGGTCACTAATGTTAAACCACTTAAGGAATTTGAAAATACAA  
CATGCAGCACACTGACAATACGTCAAAGCTTGGATTTGTTCTTCTGATAAAACAGCTAGT  
GGTTTGAATAAGTCTCAGATCCTGGAAATGAACCAAAAAAAGTCAGATACCAGCATGCTGTC

Table 4

TCCATTAAATGCTGCTCGTTGCCAAGATGAAAAGGCACACCTTCCAACCATGAAATCCTTTG  
GTA CTACAGGAGAGTGACCCACAAACCAATCTGTTGGGTTCTAAATGGTTTATAAAAAATAT  
TAAAGAGGCATTTCTCATCTGTATCAACGGAAACATTTGTTCCAAAACAAGACTTCCCACAGG  
TGAAGAGACCACTAAAAGCATCCAGGACCAGACAGCCATCCAGGACCAACCTTCCAGTTCT  
GTCTGTGAACGAGGACCTAATGCACTGCACAGCATTTGCAACGGCAGATGAGTATCATCTG  
GGAAATCTGTCTCAAGATCTGGCCTCCCACGGATATGTTGAAGTAACAAGCTTGCCTAGAGA  
TGCAGCAAATATTTTGGTGATGGGTGTGGAAAATTCTGCAAAAAGAAGGTGATCCTGGAACAA  
TATTCTTCTTCAGGGAAGGAGCTGCTGTGTTTTGGAATGTGAAAGACAAAACCTATGAAGCAT  
GTGATGAAAGTTCTAGAAAAACATGAAATTCAGCCCTATGAAATCGCACTGGTACACTGGGA  
AAATGAAGAACTTAACATACATAAAAAATAGAGGGACAGTCAAAAACCTTCACAGGGGGGAAATCA  
AGTTAAATTCAGAGCTGGATTTAGATGATGCCATTCTAGAGAAGTTTGCTTTCTCCAATGCTC  
TATGCCCTTTCTGTAAAACCTGGCAATTTGGGAAGCATCACTGGATAAATTTATTGAATCTATTCA  
GTCAATTCCTGAGGCTTTAAAAGCTGGGAAGAAAGTGAAACTATCTCATGAAGAAGTTATGC  
AGAAAATCGGTGAACTCTTTGCTCTAAGGCACCGTATAAACTTGAGTTCAGACTTCCTGATTA  
CTCCTGATTTCTACTGGGACAGAGAAAACCTGGAAGGACTTTACGATAAAACGTGTCAATTC  
CTTAGCATTGGCCGAAGAGTTAAGGTCAATGAATAAACTTCAGCACTGCATGGAACCTAAC  
AGATCTAATGCGGAATCACCTGAATGAGAAGAGGGCACTCCGCTTGGAGTGGATGATTGTC  
ATCCTCATTACCATAGAGGTAATGTTTGAGCTGGGACGAGTATTTTTCTGATCAAGTGATAAC  
CAAAGTGTCACTGCAAGAGATATTCAAGTTCTACAATCAAAAATTAATGTTCCGGCCCCGGCG  
CGGTGCCTCATGCCTGTAATCCAGCACTTTCCGAGGCCAAGAAGGGTGGCTTGAGATGAG  
ATCAGGAGCTCAAGACAAGCCTGGCCAACATGGTGAAACCCCATCTCTACTAAAAATACCAA  
AATTAGCCAGGTGTGTTGGCACACGCCCGTCACTCTCAGCTACTCAGGAGGCTGAGGCAAGGA  
GAATCTCTTGAACCTTGGGAGGCGGAGGTTGCAGTGAGCTAAGATCACACCACTGCACTCCA  
GCCAGGGCAACAGTGAGACTCAGTCTCAAAAATAACAATAAAATAAATAAATAAATGAATGT  
NNNNNNNNNNNNNNNNNN

&gt;55

&gt;56

NCGCCTGTGGGAGGACGTCCGGGTGGGCGGAACTCCTAGCGGACACCTCGTGGA  
GTCCGGCCGGAAGAGCAACCGAGATGAAGGTGAAGATGCTGAGCCGGAATCCGGACAATT  
ATGTCCGCGAAACCAAGTTGGACTTACAGAGAGTTCCAAGAACTATGATCCTGCTTTACAT  
CCTTTTGAGGTCCCACGAGAATATATAAGAGCTTTAAATGCTACCAAACCTGGAACGAGTATT  
GCAAAACCAATTCTTGCTTCGCTGGATGGTCACCGTGATGGAGTCAATTGCTTGGCAAAGCA  
TCCAGAGAAGCTGGCTACTGTCTTTCTGGGGCGTGTGATGGAGAGGTTAGAATTTGGAAT  
CTAACTCAGCGGAATTGTATCCGTACAATACAAGCACATGAAGGCTTTGTACGAGGAATATG  
TACTCGCTTTTGTGGGACTTCTTTTTTCACTGTTGGTGATGACAAAACCTGTGAAGCAGTGGA  
AATGGATGGGCCAGGCTATGGAGACGAGGAAGAGCCATTACATACAATATTAGGAAAGACA  
GTGTATACTGGGATTGATCATCACTGGAAGAGCTGTTTTTGCCACATGTGGACAGCAAGT  
AGACATTTGGGATGAACAAAGAACTAATCCTATATGTTCAATGACCTGGGGATTGACAGTAT  
AAGTAGTGTTAAATTTAACCCAATTGAGACATTTCTCTTGGGAAGTTGTGCATCTGACAGGAA  
TATAGTACTGTACGATATGAGGCAAGCTACTCCTTTGAAAAAGGTTATCTTAGATATGAGAAC  
AAATACAATCTGTTGGAACCTATGGAAGCTTTCAATTTTACAGCAGCAAAATGAAGATTATAA  
CTTATATACTTTTGATATGCGTGCACCTGGACACTCCTGTAATGGTCCATATGGATCATGTATC  
TGCAGTGCTTGATGTGGATTACTCTCCCACTGGGAAGGAGTTTGTGTCTGCTAGTTTCGATA  
AATCTATTGGAATCTTTCTGTAGACAAAAGTCGAAGCAGGGAGGTATATCATACAAAGAGAA  
TGCAACATGTTATCTGTGTAATAATGGACTTCTGACAGCAAGTATATTATGTGTGGATCTGATG  
AAATGAACATTTCGCTGTGGAAGCTAATGCTTCTGAAAAATTGGGTGTGCTTACATCACGA  
GAAAAAGCAGCCAAGGATTATAACCAAGAAATTGAAGGAGAAATTCAGCATTATCCTCATATA  
AAACGTATAGCTCGTCATCGACATCTACCAAAATCTATCTATAGCCAGATTGAGGAACAGCG  
CATCATGAAAGAAGCTCGTCGACGAAAGGAAGTGAATCGTATTAACACAGCAAGCCTGGAT  
CTGTGCCACTTGTGTCAGAGAAGAAGAAACACGTAGTGGCAGTTGTAATAAATTGGTATTCT  
CTAACAATCCTGATGTATAATTATTTGTTACTTTTGATTTGAGAACTCTACAAATAAAAGTGCT  
GGGACTAGATTAATTGCAACATTTTAGTTATATGTAGAGCTTTATTGTTACTCCTTTTATGC  
TACCCTGAAAAATGATCCTTAAAGGTGGCTATGTTGGTAAGACTGTTTTATCCTTAATCTGCA  
TTCTTCTTTTATTGTAGAATACAGTATTTGCAACTCATTTTTCTGTTTTTATTACAGATATAC  
TTACTTTCTCTTTGATCTATTATTGTAGACACTATACATTCAAATTGACATTTAAGACCAACAT  
CTCTTATGTTATCTTTAATATTACTTTGAATAATGATTGCAATGATGTTTCTTCTGTGATTCCA

Table 4

CATAACATTTAGAATAATGATGTCAATTTTTACAACCTGAATTTATTTCTAGTGCTTTACTTATA  
TTTGGCTTTTTGACTCTTTTAAAACAATCAGCCTGCATTTATATAACTTTTTATAAATAATAATAT  
AATTTGGGTCAAGTTAAGATATTAAGTTCTTTTCTCAGCANNNNNNNNNNNNNNNNNNNNNNNN  
NNN  
>57  
>58  
NNNNNNNNNNAGGCGGCCGCCGCGGCGGAGGTACGCGGGCTATTGTGATTCCAGTG  
ACCCATAGAACAGGATTTCACTAGTCCTATGACATGTGACTGGGCTTGGGAAGTTCGGGTGT  
CAGGTCCAAAAATCCTAAGGTGGGATCTTCGCTTTGTGAAGCAAATTAATTACACAACCAAAT  
ATTGCCACATTCTTGAGGTCTATTGACACAATGGGAACCTCAACCCCTACTTAGCTTAGCATT  
TTTTTTTTCAAAGAGTGAAAAGTGGTCCACGTAGAGCACAATATAATTAAGTAAAGGAAGAT  
TAAAACATATTTTATCCATTCTTATGGTGGGAAATTAACATGTTTTAGATTTGAGGTCCCC  
TCTCAGGAAACCTTTCAACTTCGTATTATTACTCCTGAGTAGTATGGGGTAGAAAATGAGT  
GGAAATCAGTTTGGCCACTATTTCCGAGTCTTTTGCCTGCAATACTTTTATCAATATTTACAA  
TATTTAGTCCTGTTTACAGATGGGGATCACATCAGGCNN  
>59  
NNNNNCCGAGGGACGCGGGGAAAGATCAGTTGTTTTACCTTGGCATTCAAAGACTTTT  
CTTTGACTCCCATGGTTCTCAAAGCGTGATCCTGGTCCACCACCATCAGCATGGGGGGGAA  
CGTGTTAGCACTGCAAATTTCTATTCTCCTAATTTTCTGAATCAGAAATTACGGAGGTGGA  
GCCCAGCAATCTGTTTTAACCAAATTCACATAATTTCTAATTAATTTATGCTTTGAGAACCGC  
TGATCTAGTTTGTCCCTCTCATTTTGCAGGCAAAGAATTGAATCTAGAGAGGTTAATTGACT  
TGTCCAGTCATACAGATAGGTTCTGTTTTCTATTATTTATTTATTTATTTATTTATTTATTTCA  
CTTTACCCCCCAGGATTCATAGTTTTCTTTCTAATACTCCATATTTGACTTGACTTTTTTACAA  
GTTGTAATTACAAATAAGTCTAAGATGGGAAAGTTGTGGAAAACCTTTATAGAGAACATGAGAT  
TTGACTGAACAGTAAACATTAAGTAGAGAGGAAAGAAAGGGGTGTTCTAAGCAGTAGGGACC  
ACAGTGAATAAAGGTAGAGATAGGTAGGTTTAAAAAAAAAAAAAGTCCTGGGGACAGCCTG  
GGTGACAGAGCGAGACTCCGTCNN  
>60  
NCGCCTGTGGGAGGACGTCCGGGTGGGCGGAACTCCTAGCGGACACCTCGTGGA  
GTCCGGCCGGAAGAGCAACCGAGATGAAGGTGAAGATGCTGAGCCGGAATCCGGACAATT  
ATGTCCGCGAAACCAAGTTGGACTTACAGAGAGTTCAGAAACTATGATCCTGCTTTACAT  
CCTTTTGAGGTCCCACGAGATATATAAGAGCTTTAAATGCTACCAAATGGAACGAGTATTT  
GCAAAACCATTCCTTGCTTCGCTGGATGGTCACCGTGATGGAGTCAATTGCTTGGCAAAGCA  
TCCAGAGAAGCTGGCTACTGTCCTTTCTGGGGCGTGTGATGGAGAGGTTAGAATTTGGAAT  
CTAACTCAGCGAATTGTATCCGTACAATACAAGCACATGAAGGCTTTGTACGAGGAATATG  
TACTCGCTTTTGTGGGACTTCTTTTTCACTGTTGGTGATGACAAAACCTGTGAAGCAGTGGA  
AATGGATGGGCCAGGCTATGGAGACGAGGAAGAGCCATTACATACAATATTAGGAAAGACA  
GTGTATACTGGGATTGATCATCACTGGAAAGAAAGCTGTTTTTGGCACATGTGGACAGCAAGT  
AGACATTTGGGATGAACAAAGAACTAATCCTATATGTTCAATGACCTGGGGATTTGACAGTAT  
AAGTAGTGTTAAATTTAACCCTAATTGAGACATTTCTCTTGGGAAGTTGTGCATCTGACAGGAA  
TATAGTACTGTACGATATGAGGCAAGCTACTCCTTTGAAAAAGGTTATCTTAGATATGAGAAC  
AAATACAATCTGTTGGAACCTATGGAAGCTTTTATTTTACAGCAGCAAATGAAGATTATAA  
CTTATATACTTTTGATATGCGTGCACTGGACACTCCTGTAATGGTCCATATGGATCATGTATC  
TGCAGTGCTTGATGTGGATTACTCTCCCACTGGGAAGGAGTTTGTGTCTGCTAGTTTCGATA  
AATCTATTGCAATCTTTCTGTAGACAAAAGTCGAAGCAGGGAGGTATATCATACAAAGAGAA  
TGCAACATGTTATCTGTGTAAAATGGACTTCTGACAGCAAGTATATTATGTGTGGATCTGATG  
AAATGAACATTGCGCTGTGGAAAGCTAATGCTTCTGAAAAATGGGTGTGCTTACATCACGA  
GAAAAAGCAGCCAAGGATTATAACCGAGAAATTGAAGGAGAAATTTGAGCATTATCCTCATATA  
AAACGTATAGCTCGTCATCGACATCTACCAAATCTATCTATAGCCAGATTCAGGAACAGCG  
CATCATGAAAGAAGCTCGTCGACGAAAGGAAGTGAATCGTATTAACACAGCAAGCCTGGAT  
CTGTGCCACTTGTGTGAGAGAAGAAGAAACACGTAGTGCGAGTTGTAAAATAATTTGGTATTC  
CTAACATCCTGATGTATAATTTGTTACTTTTGATTTGAGAACTCTACAAATAAAAGTGCT  
GGGACTAGATTAATTGCAACATTTTAGTTATATGTGTAGAGCTTTATTGTTACTCCTTTAGC  
TACCCTGAAAAATGATCCTTAAGGTGGCCTAGTTGGTAAGACTGTTTTATCCTTAATCTGCA  
TTCTTCTTTCATTGTAGAATACAGTATTTGCAACTCATTTTTCTTGTTTTTATTACAGATATAC  
TTACTTTCTCTTTGATCTATTATTGTAGACACTATACATTCAAATTGACATTTAAGACCAAACAT

Table 4

CTCTTATGTTATCTTTAATATTACTTTGAATAATGATTGCAATGATGTTTCTTCCTGTGATTCCA  
CATAACATTTAGAATAATGATGTCAATTTTTTACAACCTGAATTTATTTCTAGTGCTTTACTTATA  
TTTGGCTTTTTGACTCTTTTAAAACAATCAGCCTGCATTTATATAACTTTTATAAATAATAATAT  
AATTTGGGTCAAGTTAAGATATTAAGTTCTTTTCTCAGCANNNNNNNNNNNNNNNNNNNNNNNN  
NNN

&gt;61

CGCGGTGGCGGCCGAGGTACACGTTACTGTTCCGTCTGATTTTGTAGTCTCTGTTCT  
GCCCTTTTGAACATCTCTTCGGTGTTTCTGTGGGATCTCTCTACTGCATTCTACTTTATGTAA  
TAATCTGTTCAATAAATAATTTTTTAAAAGGAGACAACAACGCCGAGGTGATCTGGAGGCTC  
CTGGAGGACCTCAGCGACTCAGGTCCAGTCCAAGGAGGGCCGAGATCAGGCTGAAGGAT  
GGATCCACATGTTTAGAGGAGATCGAGAAATGCAGAAAGAGAGATGCAGCAGAGAAATGCCA  
CAGAAAGGGGAGCTGGAGAGAATCAAAGCATGAGAGGAATTCAACCTGCTGTCACTGGAAG  
GGGTCCAGATGGAACGCTTGAGAAGAAACGTGTGTAGCATCTAGGAGTAAAGACTCGCCCT  
GGCTGACAGCTAGTAAGGAAATGGGAACCTCAGTGCTGCAGCCTCAAAGAATTGACTTTAAC  
CCACAGCCTGTGTGCACTTAGAAGCGGATGCATTACAAATCTTCCAGAAGGGAATGGAGC  
CCCATTGACACCTTGATTTTAACTTCTGAGATTCTAAGCAGGGAATCTAGATGAGACACGCT  
GTGAGATAATACATAGGTATTGTTTAAAGCTGCTAAATTTGTGGTAATTTCTTATGACAGCAAT  
TTAAAACTGATACAAGCCATAACCCAATCCTGTAGTCTTCCTCCTTACANNNNN

&gt;62

&gt;63

&gt;64

&gt;65

TTTTTTTTTTTTTTTTTGGAGGAGATGGACAGTGTCAGTCTCCTGATAAGGGGGTGTA  
TGGGTAGGTAATTTAAAAGCTTCTATTATAAAATCTAGTCTCTCTGACACTGCCCTGTCCACT  
GCAGTCACATCTCCCAATACTGAAGGATCCTGAGAATACGAGCGGGCATGACACTTACTCAC  
GTCATTCACCATNCTCGNNNNN

&gt;66

NNNNNNNNNNCTGCCGGGCGAGACCGCGGAAATCCCCTAACTTCCTTGCTATCTT  
CCCATCCCATATTTAGGTTAGATAGAGAAGTGTGTATGTGTGTGTGTGTGTGTGCTCGC  
ACAGTGATGAAGTGTAAACATAAATGAAGATATGGAAAAATACATCAATTAGGACAACATGAC  
AATTTCACTAGACTCCTATCAAAGAGTATCAGTTCACAGTTTTTATAGATACTAGTATAAAATT  
CAGATCTTGACTGTTTTCTGGGGATAAAGCAAGGCTTTACAATTTAGCAGTCTGTAGCTAGCT  
TGAAACAGTAAACAACAACAGCAGAGCCTTAAAGTGTATTTTTGTGACCTAAAACATGAATC  
AGGTTTTCCAAATTCCTAACAATGAATAGT

&gt;67

GATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTGAAGGATAAGAAATTACTGTG  
TCAAATTACCCACAAGTTAAATGCCCATGTTCCAGACCTGTGGCTCTTAGTATCAGGCTTGTG  
ATAGAGAAAAGGCTGCTATGAATTCTACTCAGTGTGCTTAGACCAAAGGAAACCACCACAGG  
GATTTACAGGC

&gt;68

&gt;69

NCTCGACGCTCTCCCTCGCTCACTCCTCAGTGTAGGAGTGATCGTCGACAGCAGGA  
CAAGCTCAGCCTGCAGCTGCCGTGGGCTTTGTGTGGACTGGACGCAGAGCTTGGGAGACG  
GGGGAGGGCTATTACTCCAATTCAGTGTCAATGGAATTACAGCTATAGCGGCAGTGTATATA  
GGATTGCTTTTTCTCGTCTTCTGGGTTCTGAAGTAACGGAAGCTACCTTGTATAAAGACCTC  
AACACTGCTGACCATGATCAGCGCAGCCTGGAGCATCTTCCTCATCGGGACTAAAATTGGG  
CTGTTCTTCAAGTAGCACCTCTATCAGTTATGGCTAAATCCTGTCCATCTGTGTGCTGCTGC  
GATGCGGGTTTCATTTACTGTAATGATCGCTTTCTGACATCCATTCCAACAGGAATACCAGAG  
GATGCTACAACCTCTACCTTCAGAACAAACCAATAAATAATGCTGGGATTCTTCAGATTTG  
AAAACTTGCTGAAAGTAGAAAGAATATACCTATACCACAACAGTTTAGATGAATTTCTACC  
AACCTCCCAAAGTATGTAAAGAGTTACATTTGCAAGAAAATAACATAAGGACTATCACTTAT  
GATTCATTTTCAAAAATTCCTATCTGGAAGAATTACATTTAGATGACAACCTCTGTCTCTGCA  
GTTAGCATAGAAGAGGGAGCATTCCGAGACAGCAACTATCTCCGACTGCTTTTCTGTCCCG  
TAATCACTTAGCACAAATTCCTGGGGTTTCCCAGGACTATAGAAGAACTACGCTTGGATG  
ATAATCGCATATCCACTATTTCTACCATCTCTTCAAGGTCTCACTAGTCTAAAACGCCTGG  
TTCTAGATGGAACCTGTTGAACAATCATGGTTTAGGTGACAAAGTTTTCTTCAACCTAGTTA



Table 4

ATTTGACAGAGCTGTCCCTGGTGCGGAATTCCTGACTGCTGCACCAGTAAACCTTCCAGG  
CACAAACCTGAGGAAGCTTTATCTTCAAGATAACCACATCAATCGGGTGCCCCCAAATGCTT  
TTTCTTATCTAAGGCAGCTCTATCGACTGGATATGTCCAATAATAACCTAAGTAATTTACCTCA  
GGGTATCTTTGATGATTTGGACAATATAACACAACCTGATTCTTCGCAACAATCCCTGGTATTG  
CGGGTGCAAGATGAAATGGGTACGTGACTGGTTACAATCACTACCTGTGAAGGTCAACGTG  
CGTGGGCTCATGTGCCAAGCCCCAGAAAAGGTTTCGTGGGATGGCTATTAAGGATCTCAATG  
CAGAACTGTTTTGATTGTAAGGACAGTGGGATTGTAAGCACCATTCAGATAAACCAGTCAATA  
CCCAACACAGTGTATCCTGCCAAGGACAGTGGCCAGTCCAGTGACCAAACAGCCAGATA  
TTAAGAACCCCCAAGCTCACTAAGGATCACCAAACCACAGGGAGTCCCTCAAGAAAAACAATT  
ACAATTACTGTGAAGTCTGTACCTCTGATACCATTTCATATCTCTTGGAAACTTGCTCTACCT  
ATGACTGCTTTGAGACTCAGCTGGCTTAACTGGGCCATAGCCCCGGCATTGGATCTATAAC  
AGAAACAATTGTAACAGGGGAACGCAGTGAGTACTTGGTCACAGCCCTGGAGCCTGATTCA  
CCCTATAAAGTATGCATGGTTCCCATGGAAACCAGCAACCTCTACCTATTTGATGAAACTCCT  
GTTTGATTGAGACTGAAACTGCACCCCTTCGAATGTACAACCCTACAACCACCCTCAATCG  
AGAGCAAGAGAAAAGAACCTTACAAAAACCCCAATTTACCTTTGGCTGCCATCATTGGTGGGG  
CTGTGGCCCTGGTTACCATTGCCCTTCTTGCTTTAGTGTGTTGGTATGTTTCATAGGAATGGAT  
CGCTCTTCTCAAGGAACTGTGCATATAGCAAAGGGAGGAGAAGAAAGGATGACTATGCAGA  
AGCTGGCACTAAGAAGGACAACCTCTACTCGGAAATCAGGGAAACTTCTTTTCAGATGTTAC  
CAATAAGCAATGAACCCATCTCGAAGGAGGAGTTTGTAAACACACCATATTTCTCCTAATG  
GAATGAATCTGTACAAAAACAATCACAGTGAAAGCAGTAGTAACCGAAGCTACAGAGACAGT  
GGTATTCAGACTCAGATCACTCACACTCATGATGCTGAAGGACTCACAGCAGACTTGTGTT  
TTGGGTTTTTAAACCTAAGGGAGGTGATGGTAGGAACCCTGTTCTACTGCAAAACACTGGA  
AAAAGAGACTGAAAAAAGCAATGTACTGTACATTTGCCATATAATTTATATTTAAGAACTTTT  
TATTAAGGTTTCAAATTTAGGTTACTGCTGCGATTGATGTAGTGGAGATGCCTGAACACAA  
TTCTATATTTTAGTATTTTGTAAATTTGTACTGTATTTTCTTGCAAATATTGGAGTTATAAA  
CCATTTACTTTGTGTTCTACTGAGTAAGATGACTTGTGACTGTGAAAGTGAATTTCTTGCT  
GTGTCGAACAATCAGGACTGCATTTCATATGAGATCCTTGTAGTATAAGCACAGGCCATTTTTC  
ACTTTGGTATTAATAAAATGTAAAAAAGAACTGGCTGAATGGCTGAATGAGATAAAATTTA  
ATTTTAAAAAATGGTTATGAAATAATGTTCCAATTATTAATTTGTATTATCCAGTGGTATTC  
AATAAATCAAAATGTGTGAAGTAATGGGCAATATCAAACCTTCCTGCATATCTCCATTTTGTCTC  
TAGGCAAATTAATTATCCTTAAAAAAGTTAAGCATATCTTCTGAACTGAATACATCAGCTGGC  
ATAAAAGGAGCATGAAGTCTGTTAAAGCCATTGTCAGCAAAGCTTTGAAAATAAAGGACTTCA  
CATTTTCGGTAATGTAAATGTGCTTCCAAGTTGGGGGGAAAATGTGTACTTAGGAAAACATG  
GAAACTTAGACTTGTATAG

&gt;70

NNNNNNNNNNNATTCTCAGGGCAGTCCCCGCTGTGTCCTCTGTTCTCCTTCAGTAAT  
ATAGTTCATCTGGATTGCTCCAATCTAGTTTTAACTAGCTTTGGTCTTCTCATCTTTTCGGT  
ACAACACATTTCAACTATTATACTTCTACTTTTTTTCTTGTACACTCAGATCCATGGCACCTCA  
TTTTTACACTGGAGTAACATCAATATATGTTCCACAATCTGTTGAGAAGTTGCCTGAATGTT  
CCCTAATAGCTACTTGCTGCCCTATTCTGAATATTCTGGTTTCTGAATATTCTGGTCTTTTCT  
TTTCCGTATATTCTTCTAGTCAAGAACCCTTGGTCCAGTACTGGGAACAGAGCTCGGCAT  
GCCATGAAATGTGGGTGGGCAGTTGATCCATCTTTGTAGGCCACCACAATTAAGCCACATTG  
AACCTGAAAGCTGTAGTTGGTATCATGGTTTCATGGCACCCATGTATGCCACAACCTTGCAGTG  
GGTTGTCAAATGTACTTTGAATAAAAGGCTTTGGTTTCTCTGATGTCTTCCAATCAATCACAC  
AGAGCTTGCCCTGATACTCAGCCACACAGTCCAGCAGACCTATATAGTTTAAGGTTTCATGT  
TGAACAGCACTTTCAAGAGCTCGCACTCCACTGACATCTTTCAGAATATGCTGGACACTTTC  
ATGTAACCAGACTTGAGGAGATTTTCATCTCTCTCTTTTAAAGGTTTCTGGGGTGAAAGTATG  
CTTTCCAAGGCTTCGTGGAACCGTTTCCCTTGTAAAAAGACGTTTGAAGTGTATTCTTTAAAG  
CCATCTTCTCCAGTTCCAGAATCATCCGCTGTTTCCACCTCTCCAACAAGAAAACCTGTTGT  
TTTGTGATGGTCTGCTGAAGGACTCGGGTCACACTTGGTATCACATTCTTTGCAAGGGGAT  
TTTCAAAGGAACTGAAGGATCACTTGCATTTGGTTTATCACTTCTCTCTGGATTGAAGATAGG  
AAACAGTTTTGTGGCACTCGTCTGTCTCACCTTGGTTTGGCAGCTTATGCTTGCTCACGG  
GTCCACAGAGCAAAGCATCTTCCCTCACCGTCCCGGGTCTGGGCGACGCCTCTGGATGA  
CAAGACAGACTGAACTAAATTAGAGTATTTTCTTGGTCCACTTCTTCATATGGGTTCACTTTT  
TTCTTCCGGCCACATGAGTAAGAGGAAGTAGAGAAAGCCACAAGGGCAGCTGATTCCACAG  
AAAACCTTTGAACACCTGAGCTGCCTGCAAATGGTCTGAAATAACTTCATCTTCATTAGATT

Table 4

GTTTTCACTTTAGTCTATTTGCAACGGTCTGAAGGCCTTTATGTTTGTATTCCCTTGGAAGCCAC  
CACACTTCGCTTAACTCTCAAGGCGCGAACAACCTCTCGCGACCCGN

&gt;71

GATTGGAGCTCCCCGCGGTGGCGGCCGAGGTACTTGAAGGATAAGAAATTACTGTG  
TCAAATTACCCACAAGTTAAATGCCCATGTTCCAGACCTGTGGCTCTTAGTATCAGGCTTGTG  
ATAGAGAAAAGGCTGCTATGAATTCTACTCAGTGTGCTTAGACCAAAGGAAACCACCACAGG  
GATTTACAGGC

&gt;72

&gt;73

&gt;74

ACCTTGTGAGAAGAGGAAGAAGGTGATAAGAACTAAGATCAGAGCATAGTAGAGAA  
AGTAGCCCTGTAAACAGAGGAGAAGCAGAAAGAGAGAAGGGAGGACAGAGCTTTTATTTTG  
CTCCAGGTAAAGAAAAAAGCAGCATTACAACCTCTATGTCAGTGTCTGTCCAGGTCT  
AGAAGTGAATAGACCAACCAAGCCCAACCTTCTTAAAGTAAGACTAGGTGCTTCCTGAT  
TATATATTCAACTGCCTGGAAGCATGCAAGTAAATTTCTTGATGCAATTTCTAAGGTTCAA  
ACATATTCTTCTAAAAATGCATTTACAAAAATATTAAGATTGTGTTTTTTGGTTTGGACTTT  
AAAAAAATTGTTTTCAAAACCATAATTGGGGCCTACCCCAAATGGATTCTCCTCCCTACAGT  
GAGGATTTTCAATTTTCCAGTCCCCACCGCCTTTTCAATTTTGTGAAGTGCACATGTTGTGG  
GAGCCACTGGTGGGCCCTCAGACACGAGCAATCCTTCTGGCCACTGCCAGTGTCTAATAA  
GGGAATGAACAAGCGCCTATTGGTGAGGGAAGGGGAGTCAGGCGGTGGATGATTTTTTGC  
TGATTAAGAGGATAAGGTGTGGTTTGGCAGGTATCTCATTGGTTTGGCTGGCTCCAGACCT  
AGNNNNNNNNNNNNNNNN

&gt;75

NGGCGGCCGAGGTGCGCGGGGAGGCGTTGTGGGAGGAGGTGCGGGGAGAGAGG  
AAGGGGCCTGTGCACTGAGCAGGCATCAAACATTAGTGGATGGCCTTGCGTCTCAATCTGC  
AGTAAAGAGGAACTAATCTGAAAGGGAACGATAGGACTGTGTGCTTTTTTATTTTTTAAAT  
ACGGAGTGTGCAATTTTACTGAATCTTGAATCATGCCCAAAGAATGAGCTGTGCGTGCTGC  
AGTCGTGACCCAGGCTGN

&gt;76

cACGCGTCCGCCCacgcgTCCGGTCCCTTCaGaCTGCCCGGAGAGCGCGCTCTGCCTG  
CCGCCTGCCTGCCTGCCACTGAGGGTCCAGCACCATGAGGGCCTGGATCTTCTTTCTCC  
TTTGCCTGGCCGGAGGGCCTTGGCAGCCCTCAGCAAGAAGCCCTGCCTGATGAGACAG  
AGGTGGTGGAGAACTGTGGCAGAGGTGACTGAGGTATCTGTGGGAGCTAATCCTGTCCA  
GGTGAAGTAGGAGAATTTGATGATGGTGCAGAGGAAACCGAAGAGGAGGTGGTGGCGGA  
AAATCCCTGCCAGAACCACCACTGCAAACACGACAAGGATCTTGTGATCTAAATCCACTCCT  
TCCACAGTACCGGATTCTCTCTTTAACCTCCCTTCTGTTTCCCCCAATGTTTAAATGTT  
TGGATGGTTTGTGTTCTGCCTGGAGACAAGGTGCTAACATAGATTTAAGTGAATACATTAAC  
GGTGCTAAAAATGAAAATTCTAACCCCAAGACATGACATTCTTAGCTGTAACCTTAATTAAG  
GCCTTTTCCACACGCATTAATAGTCCCATTTTTCTCTTGCCATTTGTAGCTTTGCCATTGTCT  
TATTGGCACATGGGTGGACACGGATCTGCTGGGCTCTGCCTTAAACACACATTGCAGCTTCA  
ACTTTTCTCTTAGTGTCTGTTTGAAGTAATACTTACCGAGTCAGACTTTGTGTTCAATTTCA  
TTTCAGGGTCTTGGCTGCCTGTGGGCTTCCCAGGTGGCCTGGAGGTGGGCAAAGGGAAG  
TAACAGACACACGATGTTGTCAAGGATGTTTTGGGACTAGAGGCTCAGTGGTGGGAGAGA  
TCCCTGCAGAACCCACCAACCAGAACGTGGTTTGCCTGAGGCTGTAAGTGAAGAAAGATT  
CTGGGGCTGTCTTATGAAAATATAGACATTCTCACATAAGCCCAGTTCATCACCATTTCCTCC  
TTTACCTTTCAAGTGCAGTTTCTTTTCAATTAGGCTGTTGGTTCAAATTTTGGGAGCACGGA  
CTGTCAAGTTCTTGGGAAGTGGTCAGCGCATCCTGCAGGGCTTCTCCTCCTGTCTTTTGG  
AGAACCAGGGCTCTTCTCAGGGGCTCTAGGGACTGCCAGGCTGTTTCAGCCAGGAAGGCC  
AAAATCAAGAGTGAGATGTAGAAAGTTGTAAGTGAAGAAAGTGGAGTTGGTGAATCGGTTG  
TTCTTTCTCACATTTGATGATTGTCATAAGGTTTTTAGCATGTTCTCCTTTTCTTACCCT  
CCCCTTTTTTCTTCTATTAATCAAGAGAACTTCAAAGTTAATGGGATGGTCGGATCTCACAG  
GCTGAGAACTCGTTCACCTCCAAGCATTTTCAAGAAAGCTGCTTCTTATTAATCATACAAAC  
TCTCACCATGATGTGAAGAGTTTCAAAATCTTTCAAATAAAAGTAATGACTTAGAAAAGT  
CCTTCTGGGTGATTTGCATGTGCTTAGTCTTAGTCACTTATTATCCTGACACAAAAACAC  
ATAAGCATACATGTCTACACATGACTACACAAATGCAAACCTTTGCAAACATTATTATGCTT

Table 4

TTGCACACACACCTGTACACACACACCGGCATGTTTATACACAGGGAGTGTATGGTTCCT  
GTAAGCACTAAGTTAGC

>77

CAGGACGCGGGGAGACAGCAGAAGGATCACTGGGCTGGAAGCTCTAACAGGCATT  
GCCAGCCTAGCTACCTGCAGTTTGAGGCAAGGGCAGGGTCACTTACCCTGCTGTCTGAATG  
TCTCCTGGGACAACAGGAGGCTGCACTCACTGGCTGAGTTCAGACAGAAGAGGGATCATCG  
GACTGGAAGCTCTGGCAGGTATGGCTAGCCTGGTTACCCGTAGTGAGAATGGAGAGGGCC  
ACCTGCCCAGCTACACAAATGTTTCCCAGGACAACAGGAGGCTGTGTCCACTGACAGTTCA  
GACCGAAGTGGAACCACTGGACCGGAAGCTCTAGCAAGTGTTGCCACCTGGCTACTAGTG  
AGCCTTGAAACCAGCGAAACAATAATCAAAGAGCAGTTCTGTCAAAGAAAACAACANN

>78

>79

>80

>81

GGTGGCGGCCGAGGTACAGCCAACCCCTAGGTGTGGACCAGCTGAGGCAGGTG  
GGCAGATATGCAGAGGGACTTGGGGCTTTGCCAAAGGGTAAGCACAAAGAAGGAGTCACG  
GGTTCTGTTGAGGCACTGTTGGGATTAGGAGCCCGAGGGACCTACTTTGCAGGAACCTAG  
CATAACTTTGTGTGACGAGACTGCACAAGACAAGCTCAGGCAAGTGGCTCAGTAGTTGGC  
CAGCCCAGCAGGGTCTCTGTATGAGTGTGCACCCAGCTGAAGAGAAGAAATGGAGAGCAG  
CAATTGGAGCTTCAGGACCGGCTTGCCTGTGGCTCCAGGTTATACCACCACTGCCCAAAG  
CAAAGCTAGAGAAGCAAGTGGAGAAATGCTGGAGAAAGCTGCACCTACAGGCAACCAGC  
ACTTTAAAAACCACTCCAGGCAAAGTAATGGAANNNNNNNN

>82

>83

NNNNNNNCCGAGGTTCTTGTGTCAGCTCTTTATTTCTTAGTCCCACTCCCCGAGG  
TAACACATTTCTGCTTTTTTAGCTGTTTCTCTAGTGTAGGTTACCTTTCTAATTTTTGATTCA  
ATCACTTAACCACCGTTACATACTACAAAATATCACTATATTATGACCATGATTATATTTCTTTT  
CTTTTTCCCTTCATCAAGGAAGTTCATCAAAGAATTTCAATGATGACCTCTTTT  
TAAAATTTTCTTAGTATTCTATGTAACATACCCGATCTTTTCCCCACACACTCCAAGAGCTTT  
TTAATATAATTTCTACATAGCCATCAGCACAGATAACCAATCCTCTTTTTTCCCCACTAGAG  
ATGTGCCCTTCCGTAACCTCTGTCTCTTCTTTAACCTGGAATATTGCTCTTCAGGCCTGTTG  
TGCAGCTAAGAGCTTCATTCTCATCATCTGGGGTTCCTTTCCCTCTCTCTTGGGCTGGAA  
TCCCTCTTGCTGGATCTCTCACCTTCATAAATCTAGTTTACTCCTTTGTTTTN

>84

>85

CGCGGTGGCGGCGGGTACTTATATTACATTATGCTAAAATGCAAACATCTTATGCTA  
AATGTTATATTTGGGAACAAATTGTGTAAATATACTGATGACGTCAATGGATCATTACAATTAA  
TGTAGGTGCCGTGGGCAGGAAAGCTAACTTTAGCTGAAAGCATCTGAAACGTGCTTATTTT  
AATGGGCCCTCAAAGGAAAGGGATGAGGCCAGCCATAAAGAAAGGCTTGCCAAATATAGT  
TCTTGTGTGCAAGAACAACAAATCCCATTTACAACAGAACTAACCTGGCATGCCATTCTAT  
CCTTAGGTTCTGGCGTGCAGTGAGCGAGGCAAGGATGGCATTCAAGATTTATTCCNNNNN  
NNNNN

>86

NNNNNNNAGAGCCGCTTCCCCCTCCTCCCTGTGCTGTCTGCACCGAGGAGAGCGG  
CCTGCCGGAAGTGGGCCACCATATCTGGAACTACAGTCTATGCTTTGAAGCGCAAAGGG  
AATAAACATTTAAAGACTCCCCCGGGGACCTGGAGGATGGACTTTTCCATGGTGGCCGGAG  
CAGCAGCTTACAATGAAAAATCAGAGACTGGTGCTCTTGAGAGAAACTATAGTTGGCAAATT  
CCCATTAAACCACAATGACTTCAAAATTTTAAAAATAATGAGCGTCAGCTGTGTGAAGTCCTC  
CAGAATAAGTTTGGCTGTATCTCTACCCTGGTCTCTCCAGTTCAGGAAGGCAACAGCAAATC  
TCTGCAAGTGTTGAGAAAAATGCTGACTCCTAGGATAGAGTTATCAGTCTGGAAAGATGACC  
TCACCACACATGCTGTTGATGCTGTGGTGAATGCAGCCAATGAAGATCTTCTGCATGGGGGA  
GGCCTGGCCCTGGCCCTGGTAAAGCTGGTGGATTTGAAATCCAAGAAGAGAGCAAACAGT  
TTGTTGCCAGATATGGTAAAGTGTGAGCTGGTGGATGAGTGTACACGGGAGCAGGGAGGCT  
TCCCTGCAAACAGATCATCCATGCTGTTGGCCCTCGGTGGATGGAATGGGATAAACAGGGA  
TGACCTGGAAGCTGCAGAGGGCCCATTTGTAGGTATCCGGAATTATGTCATCTATAAAAAATA

Table 4

CTCACATTAAGACAGTAGCAATTCAGCCTTGAGCTCTGGGATTTTTCAGTTCCTCTGAATT  
TGTGTACAAAGACTATTGTAGAGACN

&gt;87

&gt;88

&gt;89

ACCGCTCAGCCTGCTTGGTTGCATCCTCCGCATGGCGAGTCAGCTCTGAGATCTGA  
AGGTGAGCATGCTTACGCTCGGCCTCACATGTGTCAAAGTGATTCTGGATCTCCTAAGTCG  
ATCCAACATCTGCAGTTGCTGTTTTTCCCCATTCTCCAGTTCACGTGTTAAATTCTCTACTTGT  
GATGCCAAATGTGCTTCTCCTTGTCTTTTCTCTCCATGCACCGTTTCACTTCCTCTAACTCA  
GATGCCATTGCGCTGAAGTTCAGCTGCACTCTCAAATCTGACATTTGCTTCTCCAGGTCCTG  
TTTTTCCCGCTCAACCCCTCTCCTAAATCTCCAGTCTCCCTTGTTCATCCTGATAGTTTGA  
CTGTTGCTTGGAAATCTGAGATACTTGATGCTGTAAACCTTTTCGATCACCTTCTGCTTTCGT  
AAGTTGTGT

&gt;90

TTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGATCACAAAGCAGACAAACA  
GGAAAGACTGAACCATCTATTTGAAAAAGTGACTTCATTCAATTGGTTCAGCCACCCGTATC  
TGTAATCTCTCCATTCTGCCCTCTTGATTTAATGCAGCTATAAAGGAGAGTATTTTAAAGTG  
CCTCCAGTAGGAAGAAGCAGTCACAAGGCACTGTTATATCAATTCAGTGTGACACAAGCCCT  
GATTATTTAATAGTATAACAGCAGTGAATCAGAGTTCTTTCATCTGACTTTGCTGACATTTCCA  
GCAGCTGTATATTTAATTCACAGTTAGGGGCTGAACAAACTACAGCCATTGATCAGAATGTAA  
GCAGGCATCCTTGAGCTTCTTCTAGGAACAAATACAGATGTGCACAAAATTTTCATTTATTCA  
GTAAGAATTTGCATGACTTGTAGCAGTAACAGTTTCACATTTTCATCAACCAGTGTCAAAGAG  
AGGTATTCAGTTATTGGTAGCCTATAAACTGTGTTAGACTGATTATTTAAATGCTACATTTCTG  
CTCCTGAATGAATATTGAAAAGCATCTAGTGACACCAAGGCCTTTATAGTTAGAAAAGGCATC  
TTTCATCTNN

&gt;91

TTGGAGCTCCCCGCGGTGGCGGCCGAGGTACGCGGGATCACAAAGCAGACAAACA  
GGAAAGACTGAACCATCTATTTGAAAAAGTGACTTCATTCAATTGGTTCAGCCACCCGTATC  
TGTAATCTCTCCATTCTGCCCTCTTGATTTAATGCAGCTATAAAGGAGAGTATTTTAAAGTG  
CCTCCAGTAGGAAGAAGCAGTCACAAGGCACTGTTATATCAATTCAGTGTGACACAAGCCCT  
GATTATTTAATAGTATAACAGCAGTGAATCAGAGTTCTTTCATCTGACTTTGCTGACATTTCCA  
GCAGCTGTATATTTAATTCACAGTTAGGGGCTGAACAAACTACAGCCATTGATCAGAATGTAA  
GCAGGCATCCTTGAGCTTCTTCTAGGAACAAATACAGATGTGCACAAAATTTTCATTTATTCA  
GTAAGAATTTGCATGACTTGTAGCAGTAACAGTTTCACATTTTCATCAACCAGTGTCAAAGAG  
AGGTATTCAGTTATTGGTAGCCTATAAACTGTGTTAGACTGATTATTTAAATGCTACATTTCTG  
CTCCTGAATGAATATTGAAAAGCATCTAGTGACACCAAGGCCTTTATAGTTAGAAAAGGCATC  
TTTCATCTNN

&gt;92

&gt;93

&gt;94

ACGCGGGGAAGCGCGCGGAAGAAAAACCAGCAAGAAGGCGGGCGGGGGAAGATGG  
CGGTCTGGGGTAGAGTTTGAAGCTTTCTGACTAGGCTAGTCGAGTAACTATTCGGGTCAT  
GGCGTCAAACCTCAACTAAGTCTTCTGCGCAGATGCCGGCTATGGCGAACAGGAAGTGGAT  
GCCAACTCTGCCCTTATGGAATTGGACAAAGGCCTAAGATCTGGCAAACCTTGGTGAACAGTG  
TGAAGCAGTTGTTGCTTTCCAGACTTTTTCAGAAGTATCCATTCCCTATTCTTATCAATTCT  
GCATTCTAAAGTTAGCTGATGTTTTAGAGTTGGAAATAATTTCTGAGGCTATGTGTTCTT  
AAAGTTACCCAACAAAGTGAGAAACATTTGGAGAAGATTCTAAATGTGGATGAATTTGTGAAG  
AGAATTTTTCTGTGATTATAGTAATGATCCTGTGGCAAGAGCCATCACCTCCGGATGTTG  
GGAAGTCTGGCATCAATAATTCCTGAGAGGAAGAATGCTCATCATAGTATTCTGAGAGTTT  
AGATTCACATGATAATGTAGAAGTTGAAGCTGCTGTTTTTGTCTGCTGCAAACTTCTCTGCACA  
GTCAAAGGATTTTGTGTAGGAATCTGTAACAAAATCAGTGAAATGATTCAAGGTTTAGCGAC  
ACCAGTAGACTTGAAGCTAAAATTGATACCCATTCTACAGCACATGCACCATGATGCAATCTT  
GGCTTCAGTGCTCGTCAGCTTTTACAACAGCTGGTCAATCCTATCCGTCCACCAAAATGG  
TGATTGTCTTTGACACACTTTCAGTCTGCTGTCAGCGTCATCTTTGGTTGATACACCTAAGC  
AGATTGAGCTTCTGTTGAGTATTTGAAGAATGATCCCAGGAAGGCAGTAAAGAGACTTGCT  
ATTCAAGATCTGAAATTACTTGCTAATAAAACACCACATACTTGAGTAGGGAGAAATATTGAG

Table 4

GCACCTTTGTGAGTGTGCCCTCCAGACTCCTTATGACAGCTTAAACTAGGGATGTTGTCTGT  
CCTTTCCACACTATCAGGGACCATCGCCATCAAACATTACTTCAGTATAGTTCAGGAAATGT  
GAGTTCTTCTCCAGATCTTCTGATTTAGTCAAATTAGCCCAAGAGTGCTGTTACCATAATAA  
CAGGGGCATTGCAGCTCATGGAGTTAGAGTCCTAACTAATAACTGTTTCTTGTCAAGAAAA  
GGATCTTTTGGCACTGGAACAAGATGCTGTCTTTGGCCTGGAATCCCTACTGGTACTTTGTA  
GTCAAGATGATAGTCCAGGTGCTCAGGCCACTTTAAAGATTGCTCTAAACTGTATGGTGAAG  
TTGGCCAAGGGCAGGCCCATCTTAGCCAGTCAGTAGTTGAGACCTTGTTGACTCAATTGCA  
CAGTGCTCAAGACGCTGCCCGGATTTTATGATGTGCCATTGCCTGGCAGCCATTGCCATGCAA  
CTGCCGGTGCTGGGTGATGGGATGCTTGGTGACCTCATGGAGCTGTACAAGGTGATTGGAC  
GATCAGCCACAGACAAGCAACAAGAACTTCTGGTGAGTTTGGCTACTGTGATTTTTGTTGCA  
AGTCAGAAGGCATTGTCTGTGGAAGTAAGGCAGTAATTAAGCAGCAGCTTGAAAGTGTCTC  
CAATGGATGGACTGTATACCGTATTGCCAGACAGGCTTCCAGAATGGGTAATCATGACATGG  
CCAAAGAGCTTTATCAGAGTTTGTGACTCAGGTTGCCTCAGAACATTTCTACTTCTGGCTAA  
ATAGTTTGAAGGAGTTTTCACATGCAGAACAGTGTCTCACTGGGTTGCAAGAGGAAAATTAT  
AGTTCAGCACTTTCTTGCAATTGCTGAATCTTTAAATTTCTATCACAAGGGATTGCTTCCTTAA  
CAGCAGCTAGTACACCACTGAATCCTTTAAGCTTTCACTGTGAATTTGTAAACTCAGGATTG  
ACCTTTTACAAGCCTTCTCTCAACTTATCTGTACTTGTAAATAGCCTGAAGACAAGCCCACCAC  
CTGCAATTGCCACAACAAATTGCCATGACCTTAGGAAATGACCTCCAGAGGTGTGGTGCATC  
TCCAATCAGATGAAACAGTCCATGGAAGAATTTGAAGCCTTGCTTCTCGATATGGAGATCTT  
TACCAGGCATCTTTTGTGCTGACTCAGCAACTTTGAGGAATGTTGAACTACAGCAGCAGAG  
CTGTTTACTGATATCTCATGCAATAGAAGCCCTGATTTTGGATCCAGAATCAGCAAGTTTCCA  
GGAATATGGATCTACTGGAACAGCCCATGCTGATAGTGAATATGAAAGAAGATGATGTCTG  
TATATAATCATGTCTTGGAGGAGGTAGAATCACTCAATCGGAAATATACCCCTGTTTCTTATA  
TGCACACAGCATGCCTCTGCAATGCCATCATTGCTTTGCTGAAAGTTCCCTTTCTTTCCAGA  
GATATTTTTTCCAGAACTACAGTCTACCAGCATCAAGCTTGCTCTGTCAACATCGCCCCGG  
AATCCTGCAGAGCCCATTGCTGTCCAGAATAACCAGCAGCTGGCGCTAAAGGTAGAGGGAG  
TGTTTCAGCACGGATCTAAACCAGGACTCTTCCGCAAAATTCAGTCTGTCTGTCTGAATGTTT  
CTTCCACAGCTGCAGAGTAAATCTGGACAAGACTACAAGATACCCATTGACAACATGACCAAT  
GAGATGGAGCAAAGGGTTGAACCTCATAATGATTACTTCAGTACTCAATTTCTGTTGAACCTT  
GCTATCCTTGGAAACACACAACATTACAGTGGAATCTTCTGTGAAAGATGCCAATGGTATAGTA  
TGGAAGACTGGTCCCAGAACTACCATATTTGTAAATCCCTGGAAGACCCTTATTCCCAGCA  
AATTCGCTTACAACAGCAGCAAGCCCAGCAGCCATTACAGCAGCAGCAGCAACGCAATGCC  
TACACACAGTTTTTAACCATGGAATGAATGCACTGCAGACTCTCAAGAGATCAATCAAATTGC  
CAGAAACAGTTTTGGTTTTTCATATGGAATAAGTATTAAAGTTACAGTGTAAGTTTATTTCAT  
TGATTTTTGTAAATGTAATATTCTGGAAAAATTTTGTCTTAAAAATTTTGTCTGACAGCTGG  
GCGTGGTTGCTCACGCCTGTAATCCCAGCACTTTGGGAGGCTGAGGTGGGCGGCTCACGA  
GGAGATCAAGACCATCCTGGCTAACACAGTGAAACCCCGTCTCCACTAAAAAATACAAAAAA  
ATTAGCCAAGCATGGTGGCAGGCGCCTGTAGTCCCAGCTACTTGGGAGGCTGAGGCAGGA  
GAATGGTGTGAACCTGGGAGGCGGAGCTTGCAAGTGAAGGAGACTGTGCTCCAGCCTGGG  
CGACAGAGCGAGACTCCGTCTCAAAAAATAAATAAATACATTTTGTCTGAAAAATAACTGGA  
AAAAAAAAAAAAA

&gt;95

ACCTGTATGATAACATTGCAGTCAAACATATCTTGTGACAGGACAGTTTTTTGTGGG  
GAGGAGAATTAGACCAAGTTTCGGAGATATATTTTAGGAACTAAAAGGAACGTAAGATCTGGG  
GTAGGGGGATGAGCAGCTCCACACCCTGCTCCTGTGTGAGCTGTGCGCTCCCGACTGGGA  
AATGTCTAACTCCATCGAAAACATGAGATGAGGGGCAGGGAAGGGGCTACTTCCAAGCCTT  
TCATTATAATACTGTGTGAACCTTTTGCATATTTTCAAGAAAGAAACCAGTAAGGTGGGTTT  
AGTTGTGGGCTCATCCTGACTTAGAAAAATTTAATAATTTAGCCCATTGAAATGTTGATAATA  
TAAGGCATGCATGAATAATAATTTTGTCTCTT

&gt;96

&gt;97

NTGAGCTCCCCGCGGTGGCGGCCGAGGTACCTTCCCCTGAGGAGCCCCCTTCAGA  
GGGGTGAAGAGCAGTATCTTCAGAGGCCATCCAAGTTTATGCATAACAAGGAGGGAAAGAG  
AATGCAGAGAAGAGGCTGGTGATAGACAAGTTTATGTTTCACTTGAATTGCAGAGGTCA  
AGAGTTTAAAGAGTTTGGGATGGAAGAAATCAAGAATTGGGCTCGGCCGCCACCGCGGGG  
AGCTCCAN

Table 4

&gt;98

NNCTCCCCGCGGTGGCGGCCGAGGTACCAGCAGAGATGGCTTCAAGATGATTAG  
GACTTGGGTCAGTAGCACTTACTGATGTAGTGGTTTGATACACACTGATTACCTTCTTCCTTT  
TTTATTCTCTGGCATTCTCCTATATAACTAGCCACTTTTAAACAATATTTGTCGGCTCTTTCT  
TCTGCTTGTCTGTAAATATTAGGGTTCCTGAGTCCTTACCTAGATTTTCTTCTCTTCTACTCC  
TGGCCTTTCTTGGGAGAGTTTCATAATTCACCTACTCCATCTAGATATTTGTGATGTCCAAAC  
ACATCTCCACGTTAGGCTTCTATTTGTAGCATCAGACCCACACTTTCAACTGTCCACTAGATA  
GCCTCACTTGGATGCTCTGCAGGCCTAAATAACCTTTGCGGACAGATTAACAGGGAAAAAAT  
ATTAATAGGAAAAAATATAGATTTTTATCTGATGTTAATATTTCTATGTGGCATGGAGGACTTC  
ACAGAAAAAAGTGAAAACTCTAAAGCAGTTAGATTTGAGAATTATATACCATTTTAAACAAAGAA  
CAATACATTGTGGAGACATGACAAAGGAAAAAGGGTTTGGGCTGGAAGGGGGATGGGAAA  
GTGACTAGGAAACATATCGGGGAAACTGATGGAAGAGAAGGGCAATTTTATAAGGTTTGT

&gt;99

&gt;100

AGCTCCCCGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTTGCAGT  
TTTCCAAATATGTTTTAATATGCATATCATCCAGGCAGCATAATGTTATATTTCAAAGACAGAT  
TTATCCATTGAATTATTGTTTTAAAAGTTGGGATTCTCTACATAGAACATATTTCTGAAATTT  
CAAGAATATTTTCAGGTAAATTAAGAATTAATTTCTTCTAAGACTATCCAATGTGTCTCAATCT  
ATTCATAATATAATCAATGATAAAGATTACATGTATCACCAAATTCGAGGCAGCTTAGTTG  
AAAAAATTTGAAACAGCTTACTGAATTCATTTGCTGATTCTGTGGTGGCTTCCTCGATGGCA  
TGTGTGCTCCTTTGGATGCCTGCAGGGGTGGTCACTGCAAAGTCGTCATCTGTGCCACTGG  
GAGTTGGGAGGCGGCCCTGCTGGGGTTCCTGGGTGGCAGGATTTACACCTGCTCCTCCTG  
CTGGAAGGCTTCCATCCTGGACATCTGGATTAGCCCTGCCTGACTGGTGGGCAGGATGCC  
TCCCGGGAACAAGGAATGGATGATGAGGCTCGTGAAGATTTGTGGCAATTCCTCTGAGCTTA  
GGATAGTGCCCTGGGCTCCAAGTTGTGTGACAAAAATTGGTAACACATGTGGGTGCAGTTG  
CTGTTGTACCTGCCCCGGCGGCCGCCAC

&gt;101

NTGAGCTCCCCGCGGTGGCGGCCGAGGTACCTTCCCCTGAGGAGCCCCCTTCAGA  
GGGGTGAAGAGCAGTATCTTCAGAGGCCATCCAAGTTTTAGCATAACAAGGAGGGAAAGAG  
AATGCAGAGAAGAGGCTGGTGATAGACAAGTTTCATGTTCACACTTGAATTGCAGAGGTCA  
AGAGTTTAAAGAGTTTGGGATGGAAAGAAATCAAGAATTGGGCTCGGCCGCCACCGCGGGG  
AGCTCCAN

&gt;102

ACCATAATAATGCAATTAACAAAATCCAGGATTTAAGGATTTCTATAAGATTAAAAAAA  
AAATGAGGTGGTGTGAGTGGGGAGAGAAAAAAGCAGGAAACAAAACCTGGTGAGAGGAAAT  
GACCCCTGATGAAAGATCTTAAACACCAGGCTGAAGATTTTAGATTTCTACCTATTAGAAAT  
GAATATTCAGTGGGTTTGATGAAGAGTCACTGAAGTGTCAAAAGAAAACAAGATTTGAGA  
AAGATTCTTGAGAACTCGTGCATAGGAATGAACTGCAATAAGGGCAGATTAGAGAAGAATA  
GGCCATGAGGGCCTAGTATCCAGAATGAGGCAGAGGGAGGGACGCTGGATGTGAGCAGAG  
AGGATGATGACCAATTAGAGATCAGCGCCAAGGAGACAGAGAAGTCAAGATGATGTTGAAAT  
GTCCTGCCTGGGTAACCTGGGAGAGAAAATGGTACTGTCTGGACCCAAAATAAGAATTAGTGA  
CTTCTTTTCCAGAGGGTACTAAGGCAGGTCTGTTTAGAGCCATATGGAATAATTAAAAAAT  
CCTGTAAGATAACCCACGATCAACACACACTTCAAATAAAAACCACTTTAGCAGCAGACCCAT  
CTGTCTGGGCCACTTGGCCCCGCTAGACCTTGCTGATAGAGAACACCAACTCATCTCTTCA  
CTCAACAAACATTCACTAAACCTAAACAATGTAGCATCCTAAGCTAGGTAGGGAGGACCCC  
AAGATGAATCAGACACAGTTCTAGCCTTTGATAAGCTTAATTCTACCTTCTTCCCTATCAATG  
AGCTGTTACCTATGAACAGGTAGCTAAAGTGCTTGCTTCAGAGATATGAGTCCCTGATACCA  
GTTCTAACTGCCACGTATGGCACATGAACACCTTCAACACTTCAGTCTATCCTTGGCAGAG  
ATAN

&gt;103

NNNGAGAAGCCATGTGGGACTCCTGCCCTGGAGAGAGCCCAGAGTGGAGGGAGG  
GGTCTGTATGGTGGTGGGAGTCCTCTAGCAATGGTCCCTTGTGATTCCGGTGTACTCTGATGT  
CCTGACTTCAAACCTCAGCTTACCCAAAGCAAATGTCGGCGGGCCGAGGTACTCCTTTCTTGT  
TTAAAGCCTCACCCTGACCAGGAAGTCTTGATAGAGCCATCTAGTAATTTCTTAAGTCTTACC  
TCATCCAACCTTGTTTTGAATCCTGCACTGAGCAGCTTGCCCTCACCCCTCCCTCTCTAT  
GCCCTCACCTTTGCAGGAGACTCTCAATTTCTCAGTCCACATCAGCTCTCAGACCACCAAAG

Table 4

CAAGGGTTATTTTTCTAAAAGACATTGGTTCCCATCGCTCCTCTGACTAAAGGTCCTACTATG  
GCACATTTGCCCTTGGCACTCAAGGACCTTGCAATCAGGCTGAGAACCTCATGTTCTCAAAC  
TCAAGACCANN  
>104  
>105  
ACTTTCTAGGTATATCATGTGCCCTAATGTGCTCCTAATATCATAAATGTTTACTTTCC  
GAAAAGTATTTCTGAAAGGGAGCATATTTTGGAAAGTGCATAGGCTTGTAATCATACTTGTTT  
TCAAGTTTCAACTTTGCTATTCAACTAGAATAATCTTGCGCAAAACCTGAGCTGATTTTCTCAT  
CTATAAAATGGAAACAATACTTTCTGTGATAATGGGTGCAAAACACAAGGTATACTGGTTTCT  
TTGCTCTGGATTCAAGTTTTCTTCTAGTTTCAAAATTTTAAAGGGAAACCAAAATGTTTCAT  
GGGAC  
>106  
GTCCGGTAGTGGGCAGCGATCAGGGCTGGGGCTCTTTCCTGAGTTGTGTCAGGTG  
AGAGATTGTGAGAACTTGGCTTGCAGGGTTTGGGCATCAGCTGCCATTGAGGGGGCCGTTT  
ATTGTCTCAAAGTGAATGTGGGGTGGTTTGATCTGCATGTGTCATTTGTATCCACACAAGTTA  
ATTATTCTGCTTTTGTGTAGTACCTTGGTTGTGAAGCAGAAGCTACCAGGCGTCTATGTGCA  
GCCATCTTATCGCTCTGCATTAAGTAAGATGAGGATTCACCTTAATTTATGGGCACAATTTA  
GTTTCTTCCACACAAATTTAGGCCTTAACCTTTTATTTTTTCTACAGTGGGGGTTTGGAGTA  
ATATTCATACGGCATGGACTTTACCAAGATGGGGTATTTAAGTTTACAGNN  
>107  
ATAATTGCAGAGAAAGCTTGCCAACGGTGATAAGTAGGTTTGTCTAGCAGCACTGAT  
GCGTCGTGGAAGTTGATGGTCATGAACATACAGTGTGATAACCTATCTGCCCTCTTGACCTT  
TTCTAGTAGTGCTATGTCATTTTGGTACTAAGGTAGGTGAATTTTCCAAGTGTTCTTGGAAAT  
AAGGAAACATCAAGAATAATGTAAAAGCCTCATATACAATAATGAATAATAAGAATAATGTG  
AAGGCTTCATTCAAGGTTGGGGTTGCCAGATACATTGCAACAAATGACAGAGCAGCCAAG  
GTATTTAGGATAGTGGCCAAAGGATTGTAATGATGGCTTATGGAAGTGTGAGCTGGATAAAG  
AGTGAAAAATGAATAAAAACTAANN  
>108  
NNGGATTCTACATCAGGTGTCTGTGCCTCGCTGCTGAAGGATAACCCAGAGTGCAA  
GGTCATCTTTGTTGCTGAACAGGGCTGGACCTGTGCGACTTAAGCACACTTAAAGGATTCTA  
TTCTTCATTCAAGTCCCCCAGAGAAATTGGCTCCTTATTTTTCTTTACCTATTCTAGACTTCC  
TTTTGTCTAGAGCCAGTTTTGCAAGGGCACTTTTATCCATCTCAGTTATTCCCAGAGGTGAC  
AGAATGAGTAAACCATATGGGGCAAATAGCATATGAGCTAAACCAGTTAACTGTTAACC  
GGCACATGGTCAATGCCTTAGTATTTTTTTTTTTT  
>109  
CCACGCGTCCGAGACACTTCTCTGACTAACCATAGACTATGTGGAAAATGGTAGCTG  
GATTGCCTTTGGGTGGAGTCCTTGCCCTGTGGCATAGGAAACAAAGGAAAGGAGAGAGATG  
CCCTTTGAGATTAATGAAAATGCTCTCAGCCAAATAAAATCTAAAAATAGCCTCCTTGTGATA  
CGAACGCGTGGCCCCTAAGGGTCTTAAGAGAGAGCTAGGGGAGGTTGAGCTGGCCACAG  
AGATGCTAAAGGTCAGGAGCAGACTTTTAGGGTTTGTGTTTTATAGGTTTAAAGACCAGGT  
CTGTGTTTTGATAACTGAACTTGCTAATAGCTGGCCACTTGAGTTGCTTCTTCCAGCTCTTTG  
TTTGTTTTAAATAAAGAGATTGAGCCAGTAATAATGGGAAGAGCTGCAAAATGACTTCCCAGT  
TGGGAGTGCCTGCTTGTTTTCTTCTGCCTGGGCATGCTGATGNNN  
>110  
GTGCTGCCTGCACTGTGACTAAGACTTTCTGGACTATCATCATGTTTAGGAGTTGAT  
GAGATTATAGTTTCATGTAAGTGTATCATTAGATGACAACCTCTACATCTTTAGGCATGGAAAC  
AAACATTTTTCTGGAAGAAAAAAGTGAACATCCAACCTCCATTTAAACAAATTTGATTGTT  
TCTTTGCTATTAAGAACTCGGTGCTCTTTCTCCCACTCTATTATATTGTCAAAATACATCTGG  
AGACACTATATAAACTTTTTCTCCTTTAAATTACCTGGTTTATATATTATCTCCTGTAGCCTGC  
ATATAGATAAAGGTTAAACATAGAGGATTTAGGTTGTTGGTAATTTAATAAANN  
>111  
CGCGTCAGTCAGTCTGACGGTCAGTGGATCGGTGGGTTTATCTCAAGGCCCTGAGTA  
GCCGGTAACAAACGAGGGTTCCCGGGATTGGACCGACGCGCAGCCATGGTAGGTCCAGATCC  
CGTAGAAGGGGAGCGGGTCCCATAGGTTACGGCCGATTCTGGAGCTTCTGGACTGAGGG  
CCGCGGTAAGCAGTGGTCTGATCAAAAGAAAGCTAACTGCTAGATCTGATCGAGTTAAGAGT  
GTGGATCTGCATCCTACAGAGCCATGGATGTTGGCAAGTCTTACAATGGCAGTGTGTGTGT

Table 4

TTGGAATCATGAAACACAGACACTGGTGAAGACATTTGAAGTATGTGATCTTCCTGTTTCGAG  
CTGCAAAGTTTGTGCAAGGAAGAATTGGGTTGTGACAGGAGCGGATGACATGCAGATTAG  
AGTGTTCAATTACAATACTCTGGAGAGAGTTCATATGTTTGAAGCACACTCAGACTACATTTCG  
CTGTATTGCTGTTTCATCCAACCCAGCCTTTTCACTTAAGTAGCAGTGATGACATGCTTATTAA  
GCTCTGGGACTGGGATAAAAAATGGTCTTGCTCACAAAGTGTGTTGAAGGACACACCCATTATG  
NNNNNNN

&gt;112

NNNNCCGAGCGGTTTGCATCGCCAGCTCGCGCAAGGCCATGAGGTTGGTCTGGGT  
GAAGAACGCATCGATGGCGGCACGGGCCTGTTCCGGCACGTAGACCTTGCCGTCACGCAG  
ACGCTCCAGCAATTGCGCGCATGGCAGGTCGATCAGCAGCAGCTCATCGGCTTCCTGCAAG  
ACCCAGTCAGGCAAGGTCTCGCGCACTTGACGCCGGTGATGCCGCGCACCTGGTCTGTTG  
AGGCTTTCCAGATGCTGGACGTTGACTGTGGTGAATACGTTGATGCCGGCAGAGAGCAATT  
CCTGAATGTCTTGCCAGCGCTTTTCGTGGCGGCTGCCGGGGGCGTTGCTGTGGGCCAGTT  
CGTCCACCAGCACCAGGTTGGGCTTGGCGGCGAGCANNNN

&gt;113

NNNCGCGGCCAGCCGACTGGACCCCTTAGCCTCGAGGCCTTTGCTGAAGCTCATG  
TGAGGGGGCGACTGCCCTGACAGGTGTTGGATTCCAGCTGCTGTGGCCCTGAAGGTGGG  
TGGTGGGAAGAACGGGAGAATGAAGCCAGCCTTGGGAGAGGTAGGACGCCAGCCCGGCC  
CAGCTGCTTCAGCATCTGGATCCAGCCTCACTGAAGCCAGCCACCTTCTGGACTGCAAA  
GTCATTGTCAACACCGAAACACAGGGTTTCTGACCATTGCAACCCAGGGTCCCGGCGTGTC  
GTGGCTGCAGACCCTGCAGACCCCTATGAAGATGGTCTGCTGCCTGCTTGCATCGGGCCTCT  
AGCTAGGGACTGTGGNNNNN

&gt;114

NNATAGTGATGAAGCTGGATAGTTAAACAGAACTTGAAAAGCAAGATGTGGAAC  
GGGATATAGGATTTAGAGTTTAAAGAAATGTGACATTTCTTAGTGGATTGTCCTTCCGATG  
TACGCGGGAAGCAACTGTCAGCTAGTGAGATTACTGTGTATGGCCAATCCAGATAAATAAGA  
CGATCAAGTCTTTATGAAAAGGAAAGAAAAATTTGGAATGCACATCTCTGTCCAGCTCAATTC  
CTCACTCCTTTTTAAGATGGAGAGCTGTTAGGTTTGTCTACACAGTAGGAAACACCTGATTA  
AATAACAGCATGGAGCCAATCTTGACAAAGAAATTTGGCTGCATCCAATAGAATCCCAGGGCC  
GGTCGTGGTGGCTCATGCCTGTAATCCCAACACTTTGGGCGGCCGAGGTGGGAGGATCACT  
TGAGCTTTGGTCTCAGGGCTTTGAGACCAGCCTGGACAGCATAGTGAGACCTCGTCTCINN  
NNNNNNNNN

&gt;115

NN  
TCTTCTCTGTTTGTTTTTTTTTTTAATTTTACTCGTTTCTTTATTAATATAGAAAAGGAGCCC  
AGGGCAGCTGGACCAGTAGTACAAAGCACCAGGAGTTAATACCATTCTGGTGAAGGGGATG  
GTTTTACAAAAGTGAAGGAGCAGGCAGGCCAGCCAGGTTCTGAGGCCAGGCCAGCCTAC  
TGCCCAAGAACCCCTGAAACGGCTCCCTGGGAAAAAGCTGACAGATGGGTGAGGGGTGGATT  
GAGCTGGAACCATGGGGACAGATGGCAGGGATAGAGGGTCATGCAGTGGGAACACCCCA  
GTGGCTGATAAGGACAGGGAACCTTGTGGCTGGAGGCTCCCCATTGGGCCATGGGCAGGGG  
CTTGAGATGGCCTCAGCTCTGGGGGCAGGTAGAGAACTGCAGAGACTGATGGGCATGG  
AGAACCCAGACATGGCCCTGGGGCTGAAGGGCCTTTCCACCCTCTCTTACCAGGAGGCCAC  
CTTTGCTCTATACTACATATGGGGCTTCAGGGCCCAAGGCACAGGGGAGGCTCAGAGGCCT  
CCAGTTGGGAGGAAGATGGGGCAAGGAAGGAAGCACTTGAGTGTCCCTAGCTTAGGCAGC  
CGGGGATGAGACACAGGCAGGACAACAGCACCCCGCATAGTGGGGCTAGAATGTGGGAC  
AGGGACGGGCTTATCCTCGGCCAGTGACTAGGACCAGCCCCATGGCAATGGTGCCTGTCTC  
CAGCCTTAGCAATCAAGTGTGCAACAAGCACAGGGTGTGCGGCAGACCTGGGCTCTAGCCT  
TACAAGCTCTGCCAGAACTGAATCACACAGAGCTGTATCACCATGGTCCAGCCATGTCCTG  
CCTTGGCCTGTTTCTCCTCTGTCAATGAGGGCTTTGAATAAGACCTCCTAGGTCATGAAA  
GACTCTGCAGGTGAAGGGAACCTCAGGACCTGCTCTTGGCAGTTAAGCAGACCCCTGGATG  
GAAGTGGTATGGGATGGGGTGAAGTGGGGGATGGAGGAGGAAGGTGTTCTTGCATGGAAC  
CTATCCCAACAACTACAGAGTGAGGAAAGGCCACTGGAAGCCCTTCTTTGCCAGAGG  
AAGAAAGGCCACAGAGAGAGTGAATGTGGCTTGGTGAATCCCTTACATCCTCCACCATCT  
GGGTAACACTTGGCAAGGAGTGGATGGGTGGCATTGTGCAACCCCTTATGTTCTTCCCTGG  
GGGTGGCACTCAAGGCCTCTTGTGGCTTCTGCCTTCAGCCTTCAGTGTAGGGTCAAGAGTG  
TTCTTTTCACTGTGCTCCTGTTCTGGGAACAGCACAAAGACTCTGCCTGGCTGGCACATGTTA



Table 4

GTTGGTGAGGAAAGGACAGAGTGGGTGAGTAAGCAGACAGGGAGGTAAGAGTGA CTCTCT  
GGCTTTCTCCTCTTCTCCTCCTCAGAGAGCAGCTCAATCAACTGAGTCGCAGATCTCCTCCACC  
ACAGCATTGAAGATGTGTGGCTGGTCAGCATAGACATGGTGGGAGGCACCCCTTAATCTCCA  
TGTCTCGGACATAGGAATCCGGCCGCTGCATCTTCACCTTTTTTCCCGTACTGGTATCTATC  
CAGGTGTCGGACCCGTAGATCATAGTGATAGGCACATCTTTTCGAATCAAGTGAATTCGCTC  
CAGCATAGGGCGCCGGGCCAGCCAAAGGACTCCATCATGGCTTTGAATGCTGTCTCACCA  
CTGGGATTCTGTGCGTTGCAGTGGTAAATATACTCTGATATGGTATCATCTTCAAAGAAGTCT  
GCAAAC TTGCGTTTGAAGTCCGGCCGGAATCGCTGCACCAGACCAGGCCCCAGGGCCCA  
GCTACTCGAAGAACAGCCAATGGATTGGAACGTCTAGGACAGATGCCACGGCTTTGACCC  
AGGCTGGGGGTGCACGGATCTCACTGGGGTTAGTTGGTCGGAGGGGAAAGCCCCATGGGT  
CCACCAGGATGAGGTGTTAACTCTATCAGGGTACTTGATTGAGTAAGAAGTGGCCAGGAAT  
CCTCCCAAAC TTGCCCCAGGAGGATCATGCTGGGGATCCCCATGGTCTCCCGCCATGTCT  
CTATCGATGTCACAACTCATCTCAGCCCCCTCCGGGTCCCTTGGGAATGCTGGCCTTGA  
GCTTCGCCCGAAGCCAAGCAGATCGAAGGTGTGCAGTGTGCGGCGGGCACTGAGTC  
CATGTTGAGGATCCAGAGACCCACGCCGCCCCCAAACCATGCACCATACCAAGGGGGT  
CGGTGCTTTTGTCTCGGGGCTCACAGTCACCGTCCAGATCTTATTCTGGTTTGGGAGGGATA  
CATATCTGGCCAGGAAC TTATTCTGGAGACACTGGAGGATCCTGGCTTCCACATTCTTCAGC  
TGAGACATGGAAGTGGGGCGCCACGTGGGCAGCCAGCTACTCAGCCAGCCTTGAGACTGC  
TGCTCCAGATCATCGGCCATAGTAACAAGCCTTGCCAGGTCCTGGCGAGCCCCGCCAGCC  
CCCTTCTGTCTCTTCTCGCAGCCGTAGTCGACGCGGCCGCGAANN

&gt;116

CCGCGGTGGCGGCCGGTAGCGCCGGTAGGCGGTGTGGACCAGGGGCTCGTCGGT  
GGCGGCCAGCGAATTGGTGACGACGCTGATCTTACGTTGCGCCCGCGGATCTCGCGCAT  
CACCTCGACCCCGTGGCACC CGGAATCAGTATAGGGCGAGACGATGGTCACTTCGGAACG  
CGCGCGGCGCATCTGCTCGACCACGTTGTAGCGCACGCTGTCGACATCCAGCAGCGGCAC  
GCCGCCGTACGACGCGGTCTTGCCGATCACGCGGT CAGGCGAATCGGCATACGCCTCGGC  
GGTGGTCCAGATCAGGCCGAGCTTGCCGCGCTTTGAGGTCTTCGACCATCGGGCTGTAGC  
CGAN

&gt;117

TGAGCTCACCGCGGTGGCGGCCGAGGTA CTCTAATGGAGCCACTCAGGACTGTCTT  
AAAAAGACAAAATACCTCCTACAGTTGTTATCATCAACGTCAGTTGCTGGCTTTTCTAAAT  
TTGTCTTCTACCTCAGATCTAAACATTTGATAACATTAGGGCAATATCATGGCAATCGTGGC  
CCAGTAAAACCATAGCAAATGTTTTCTCCCTAGGACACTATCTGTTTTACAGGAAAAATTTT  
CTCATAGAAAACTGTAGGAAAAGCCATGGATGAGCTGAGAAGACCAAACCTATCTCTTGGA  
AAACAACAGTAGGGAGCGTGGATTAGAATGTCTTGGGTGCGTGAAACAGGCAGACAATCCT  
GAAACATCTTTTCTGGGGACGTAAGGCATGAAAAATTTCTATACACTTAGGAGGGCTTCTAG  
GAAACAGGAAACGANN

&gt;118

ACCCCTAGCAGAAACAGAGTTTCGCCATGTTGGTCAGGCTGGTCTCGAACTTCTGT  
CCTCAACTGTTCCACCTGCCTCAGCCTCCGAAAGTGCTAGGATTACACGTGTGAGCCACTGT  
GCCCAGCATGCCGCTAACCGAGGCAGCAGCGGACGTGAGCGATAATGGCGGATATGGAGG  
ATCTCTTTCGGGAGCGACGCCGACAGCGAAGCTGAGCGTAAAGATTCTGATTCTGGATCTGA  
CTCAGATTCTGATCAAGAGAATGCTGCCTCTGGCAGTAATGCCTCTGGAAGTGAAAGTGATC  
AGGATGAAAGAGGTGATT CAGGACAACCAAGTAATAAGGAACTGTTTGGAGATGACAGTGA  
GGACGAGGGAGCTTCACATCATAGTGGTAGTGATAATCACTCTGAAAGATCAGACAATAGAT  
CAGAAGCTTCTGAGCGTTCTGACCATGAGGACAATGACCCCTCAGATGTAGATCAGCACAGT  
GGATCAGAAGCCCCTAATGATGATGAAGACGAAGGTCATAGATCGGATGGAGGGAGCCATC  
ATTCAGAAGCAGAAGGTTCTGAAAAAGCACATTCAGATGATGAAAAATGGGGCAGAGAAGAT  
AAAAGTGACCAGTCAGATGATGAAAAGATCAAAAATTTCTGATGATGAGGAGAGGGGCACAAGG  
ATCTGATGAAGATAAGCTGCAGAATTCTGACGATGATGAGAAAATGCAGAACACAGATGATG  
AGGAGAGGCCTCAGCTTTCCGATGATGAGAGACAACAGCTATCTGAGGAGGAAAAGGCTAA  
TTCTGATGATGAACGGCCGGTAGCTTCTGATAATGGATGATGAGAACACAGAATTCTGGATG  
AATGAAGAACACACAAGCTGTTCTGGATGAAGAGAAAATCGCAAATTTCTGATGATGAAGG  
GCCAAGGGCTCAAAATTGAGAACACAGGGATCAAATATTACAAGAGACGGCTCTTAACCAA  
GACCTGCCAAAAGACGCGACAAACACAGACGAGCGTCCGAAAACAAAACACAGAAAGGAGAA  
GCTATGGAAAAAAGAGCAAATGACAAGCGAGGGTCAAAAAAATAGGGAGGACGGAGAATAT

Table 4

AGGAAGGGGAGACGAACAAACCACGAGGGGTGGGGAGAAACAACACCAAGCAGAAGGGAG  
ACGAGAGATGCAAGCACAAACAAGAGCACGAGCGACCATAAGAAGAAGAAGACAAGCAAGA  
AGCAAATGAGACAAACACACCTGACAACGAACAATGATAAGAAGCAAAGCAAGTAATCAGC  
TTCGCCACGCGTTGCTGTATGCCTATGCCAGCTTGCCTCTTCNN

&gt;119

NNNNNNNNNNNNNCGGAAGTCTTCTAGAATTAATTAACGCGGGGTAGCGGACTACGC  
TCTTCCAGCTGTGCGACCTGGGAAATTCCTGTGCTAAATCCCGTGGCGCTCGCGGGTGT  
CGCCGCGGTGCATCCTGGGAGTTGTAGTTTTTCTACTCAGAGGGAGAATAGCTCCAGACG  
GGAGCAGGACGCTGAGAGAACTACATGCAGGAGGCGGGGTCCAGGGCGAGGGATCTACG  
CAGCTTGCCTGGCGAAGGCGGCTTTAGTGGCAGCATGAAGCGCACCCCGACTGCCGAGG  
AACGAGAGCGCGAAGCTAAGAACTGAGGCTTCTTGAAGAGCTTGAAGACACTTGGCTCCC  
TTATCTGACCCCAAAGATGATGAATTCATCAGCAGTGGCAGTGAAATATCCTAACTAAT  
TCTCCGAGAAGCCAGCAGTGTATCTGAGGAGCTCCATAAAGAGGTTCAAGAAGCCTTTCTCA  
CACTGCACAAGCATGGCTGCTTATTTCCGGACCTGGTTAGGATCCAAGGCAAAGATCTGCTC  
ACTCCGGTATCTCGCATCCTCATTGGTAATCCAGGCTGCACCTACAAGTACCTGAACACCAG  
GCTCTTTACGGTCCCCTGGCCAGTGAAGGGTCTAATATAAAACACACCCGAGGCTGAAATAG  
CCGCTGCTTGTGAGACCTTCTCAAGCTCAATGACTACCTGCAGATAGAAACCATCCAGGCT  
TTGGAAGAACTTGCTGCCAAAGAGAAGGCTAATGAGGATGCTGTGCCATTGTGTATGCTGCTGC  
AGATTTCCCGAGGGTTGGGATGGGTTTATCCTACAACGGACAAGATGAAGTGGACATTAAGA  
GCAGAGCAGCATACAACGTAACCTTGTGTAATTTTATGGATCCTCAGAAAATGCCATACCTG  
AAAGAGGAACCTTATTTTGGCATGGGGAATGGCAGTGAGCTGGCATCATGATAATCT  
GGTGGACAGGTCAGCGGTGGCAGTGT

&gt;120

&gt;121

TAGGCTGGGTGCAGTGGCTCACGCCTGTAATCCCAGCACTTGGGAGGCCGAGGCA  
GGCAGATCACTTGAGGTGAGGAGTTCGGGACTACCCTGACCGACATGGAGAAACCTGTCT  
CTACTAAAAAATAACAAATAGCCGGGTGTGGTGGTGCCTGACTGTAATCCCAGCTACTT  
GGGAGGCTGAGGCAGGAGAATTGCTTGAACCCAGGGGGCGGAGGTTGCGGTGAGCCGAG  
ATCGTGCCGTTGCACTCCAGCCTGGGCAACAAGAGCGAAACTCTGTCTCAAAAAAAAAAAAA  
AAAANAAAGATTCTATTAGAGATATGGCAGATGTACTCTCTGAGCTATTTAATTGATAAAGAA  
AAAGTAGGAGTTCTGCTTTTTACTAAGATGATAATCATAATTTATGATCATACTGATGAAAATA  
ATAAAATGCTCTGACTGTGGTGAAGATTTTTCCCATTCTTTCATTTAGCTATTAGAAATAT  
ATTTCAACCCTCAGTTCATAACTGATATCTGCTAGAAAGTTGAGGGTCAAATCGTGGCAACACA  
CCGTGCACTTCATGGCATTGTTGAGCATGAAACAACCTCTGATAGAGCCAGAAATTAAGATTC  
GCTTATGGCTTACCCAAGGTAAATGCCAAGTCAATGGCAGAATGAAAATTCAGCTTGGGGC  
CAGGTGTGGTGGCTCACATCTGTAATCCCAGCACTTTGGGAGGCCAAGGCGGGCAGATCAC  
TTAAGCCCAGGAGTTAGAGACCAGCTTGGTCAACATGGCAAAACCCAGTCTCTACAAAAAC  
ANNN  
TGTTGGAATTTTAAAGAAAAGAAAGGCAAGTAGCACTCAGATGGCCTTTTTTTGTAAAGTGA  
AGTCAACCTAATACTCTGGTGCTTACTTTGCAATCTTTTCCATAAGTCAAGTATTAGTGTTAA  
CAATACACTTAAGAAGTAAGGATAAACCCATCAAGGTCCACAGCTAAATAACCAGCAGATTC  
CCAGAACTTTATGTATTTGGGAAAAGTAAATATACAACAGACATATCCCTGCCCTGATTAA  
GAGGGTAGATAAAAAACAAACATAAAACAATTTTACTTGAGATAGTAATAAGTTATTTGAAAAA  
AATACAACAGAATATAGGGAGAGAGAGCAACTACAGAAAGAAGACAGAAGGGTTCTGCTTTG  
AATAGTAAGGCTTGGGAATAGCTGAATTGTAAACAAATCTGTGAGTCCAAAAACGAAGATAA  
TTCCATTCAACCGCTGACTACTGAATGGGAAAGCAAACGTTGTCACGTCTTCTATTCTCTCA  
GCAGTAACTATTACTTAAAGTCTCACTTCCATACACAAGAGACAAAGAATCTAGTCAAAAGC  
ACATGGAATCATATCTAGTCATAGTGGTAGGTGAGCAATCAATGCCAGGCAGCTGAAAGGT  
GGGAACGTGTTAAAGCCTTACACCAAGGAAAACATAAACTTGTACCTCGGCCGCCACCGCGG  
>122

ACCGCGGTGGCGGCCGAGGTACACACTGGATCTCCTTACTCATTTTTAACCCTGAC  
TGGGACACCAGAGACATGCTGCATCTTGTATTAGGTGTTTCATCTTGCAAGATGGCTGTGCT  
CCTGAAATATTTCTGTGAAGAAAATTGTTACAAATCCATTACATCACTGGCTTTTATTATTA  
ATTGAATGTTGGCTGGAAACAATTTTAACCCCAAATTTGTGACAAACAAAACCTATATGGAAAG  
GNN

Table 4

&gt;123

TTGGAGCTCACCGCGGTGGCGGCCGAGGTACGCGGGGACCGATGGCGCGATTTC  
CAATCCTGCAGAACGGCCATACAAATTGCCAGACCTGTGCACAACGCTGGACACCACCTTG  
CAGGACATTACAATAGCCTGTGTCTATTGCAGACGACCACTACAGCAAACCGAGGTGCATGT  
GTTGTCTGAAACCGCTGTGTCCAGCAGAAAAATTAAGACACCTAAATAGCAAACGAAGATTT  
CATAAAATAGCAGGAAGCTATACAGGACAGTGTGACGGTGTGGACCACAAAACGGGAGG  
ACCGCAGACTAACACGAAGAGAAAACCCAAGTATAACATCAGATATGCGTGGACCAAAGCCC  
ACCTTGACAGGAAATTGTATTAGATTTATGTCCTTACAATGAAATACAGCCGGTTGACCTTGTA  
TGTCACGAGCAATTAGGAGAGTCAGAGGATGAAATAGATGAACCCGACCATGCAGTTAATCA  
CCAACATCAACTACTAGCCAGACGGGATGAACCACAGCGTCACACAATACAGTGTTCTCTGTT  
GTAAGTGTAACAACACACTGCAGCTGGTAGTAGAAGCCTCACGGGATACTCTGCGACAACCTA  
CAGCAGCTGTTTATGGACTCACTAGCCGGGACGGTACGCGGGTGTGCAACTGCAAACCACT  
AACCTGCTATGGCCAATTGTGAAGAGATGGGAGTCTCCCCGTATTGCCAGGCCGGTCTCA  
AACTCCTGGGCTCAAGCAATCTTCCCGCCCCACTTCCCGAAGCCCTAGGATTACGGGAGTG  
AGCCACCGCACCAGCCAGAAAAACGTTTCAAATATTGAAAACCTTACTTTTTTCAATGAGC  
ATTTTTGCATCAAGGGGTAAACAGGGACATTAGGCTTTTTTCTCTTAGACTCCAAACAGTAAG  
GTCAGAATTTATCAAGACATTACATAGGAGTAAGGGCACAGCCAGGGTGGTGGGGGAGG  
ACATTTTCCAGCACTAATTAACAGGTTTTATGATTCACTAGGTTGGCCCACTACTGTTCTCA  
CCTAATTTCCAGGCACAGCGTGTGAGGAGGCCAAATGACACTTTCCAGTGCAAGTGCTTGTA  
GTATGAAGGGGGCAGAGATCACCTAGTGACCATCAAGCAGGCCATCCAGAGGCCAAAACCTCC  
TTATGTGAGGAATTTAGAAGTAATTAGACTCCCCTGTTATTTAAAGCTGGCATCTGGGTCCAG  
GCTTCTTCCCCAAAACTTGTAAAGTAACTAGAATTTCTACATGTCTCCCATGCATGCATGTCA  
AAACTTATCGTGCAACCCTTGCTGACATTAAGACACCAAATGTCCAAAAATGTAATCATTTA  
TCATGACCTAAGTGGTTAATATGGCCCAAATTCCTTTAAGCTCCTGCTTTAAGGTTTCATAAA  
TATCCCTAAGGAAAATCCACTCAGTCCTCTCTTGCTGAGGCACCCTGCTGTACCTGCCCGG  
CGGCCGCTCCACCGCGGTGAGCNNNNN

&gt;124

&gt;125

ACAGACTTTCATTCAACAAATATTTATGCATCAGCTACATGCCAGGATCTGTAATAGA  
TTCTGGGTGTGCAGTAGTGATTACTGCAGAATGCAGACATGGTCCCTGCATTCTTGAGAGGG  
AGACAGCAACCAATAAACAATTACAAAAAGTATGTAACATAATTAACAAGTGGGAGAAGGG  
AGTGGGATTACACAGCAGAAGTGGAAGGAAGGGCCCACTTAGAGTGGTCAAAGGCTTCTTG  
AAGGTAACATGTAAGCTGAGACCTGAAGAAGGATGCAAAAGGGCCAGCATGTAAGGAACAG  
AGAATAAACATCCAGAAATAGAAAATAACACACAAAAACCTAAAGTCATTAAAGAACATGAT  
CATCTTTCAAGAACTAACCCCTTGAGATCAGAGTAGTTTGATTATAGAGGAAAAGGGTGAGTG  
CAATGAAACGTTAAAAATAGCCAGATCACGTAGAGCTCTCTAGCCTTTGGTAAGAAAAGTGTT  
TTCTGTTCTACGTGACACTGAAAGTCATGAAAGTTTTAAGCAGGTGAATAACACAACTTTAT  
TTGAGTTTTTAAATCTCGTGCTGACTAAAAATCAAAAACTAGAAGAGAACAGGAAAGAAGG  
GAAACCTGTAAGGCAGCTATAGCAATATTCCAGCTGATAGATGGTGGTGGCACTAGGGACA  
AGTAGTAGTTAGACTAAAGAAATATTTAGGAGGTAGAAACAACAGGCGCTGTTGATGTGATG  
AACTGGATATAGTAGATGAGAAAAATTAATAACAGGAATAAAGATGACTCCTACCTATCTGG  
CTTGACAAATTAGATTGTGATACTAAATGTAGTGCCATGTAAGAAAAACAGGAGTTTCTAAAA  
CTGTACCTCGGCCAGCCACCCGNNNNNN

&gt;126

NCGCCTGTGGGAGGACGTCCGGGTGGGCGGAACTCCTAGCGGACACCTCGTGGA  
GTCCGGCCGGAAGAGCAACCGAGATGAAGGTGAAGATGCTGAGCCGGAATCCGGACAATT  
ATGTCCGCGAAACCAAGTTGGACTTACAGAGAGTTCCAAGAACTATGATCCTGCTTTACAT  
CCTTTTGAGGTCCACGAGAATATATAAGAGCTTTAAATGCTACCAAACCTGGAACGAGTATTT  
GCAAAACCATTCTTGTCTCGCTGGATGGTCACCGTGATGGAGTCAATTGCTTGGCAAAGCA  
TCCAGAGAAGCTGGCTACTGTCTTTCTGGGGCGTGTGATGGAGAGGTTAGAATTTGGAAT  
CTAACTCAGCGGAATTGTATCCGTACAATACAAGCACATGAAGGCTTTGTACGAGGAATATG  
TACTCGCTTTGTGGGACTTCTTTTCTACTGTTGGTGATGACAAAACCTGTGAAGCAGTGGAA  
AATGGATGGGCCAGGCTATGGAGACGAGGAAGGCCATTACATACAATATTAGGAAAGACA  
GTGTATACTGGGATTGATCATCACTGGAAAGAAGCTGTTTTGCCACATGTGGACAGCAAGT  
AGACATTTGGGATGAACAAAGAACTAATCCTATATGTTCAATGACCTGGGGATTTGACAGTAT  
AAGTAGTGTTAAATTAACCAATTGAGACATTTCTCTTGGGAAGTTGTGCATCTGACAGGAA

Table 4

TATAGTACTGTACGATATGAGGCAAGCTACTCCTTTGAAAAAGGTTATCTTAGATATGAGAAC  
AAATACAATCTGTTGGAACCTATGGAAGCTTTTCATTTTTACAGCAGCAAATGAAGATTATAA  
CTTATATACTTTTGATATGCGTGCACTGGACACTCCTGTAATGGTCCATATGGATCATGTATC  
TGCAGTGCTTGATGTGGATTACTCTCCCACTGGGAAGGAGTTTGTGTCTGCTAGTTTCGATA  
AATCTATTCGAATCTTTCTGTAGACAAAAGTCGAAGCAGGGAGGTATATCATACAAAAGAGAA  
TGCAACATGTTATCTGTGTAAATGGACTTCTGACAGCAAGTATATTATGTGTGGATCTGATG  
AAATGAACATTCGCCTGTGGAAAGCTAATGCTTCTGAAAAATTGGGTGTGCTTACATCACGA  
GAAAAAGCAGCCAAGGATTATAACCAGAAATTGAAGGAGAAATTTAGCATTATCCTCATATA  
AAACGTATAGCTCGTCATCGACATCTACCAAAATCTATCTATAGCCAGATTCAGGAACAGCG  
CATCATGAAAGAAGCTCGTCGACGAAAGGAAGTGAATCGTATTAAACACAGCAAGCCTGGAT  
CTGTGCCACTTGTGTGAGAGAAGAAAGAACACGTAGTGGCAGTTGTAAATAATTGGTATTC  
CTAACAATCCTGATGTATAATTATTTGTTACTTTTGATTGAGAACTCTACAAAATAAAGTGCT  
GGGACTAGATTAAATTGCAAAACATTTTAGTTATATGTGTAGAGCTTTATTGTTACTCCTTTT  
TACCCTGAAAAATGATCCTTAAAGGTGGCCTAGTTGGTAAGACTGTTTTATCCTTAATCTGCA  
TTCTTCTTTTCATTGTAGAAATACAGTATTTGCAACTCATTTTTCTTGTTTTTATTACAGATATAC  
TTACTTTCTCTTTGATCTATTATTGTAGACACTATACATTCAAATTGACATTTAAGACCAACAT  
CTCTTATGTTATCTTAAATATTACTTTGAATAATGATTGCAATGATGTTTCTTCTGTGATTCCA  
CATAACATTTAGAAATAATGATGTCAATTTTTTACAACCTGAATTTATTTCTAGTGCTTTACTTATA  
TTTGGCTTTTTGACTCTTTTAAACAATCAGCCTGCATTTATATAACTTTTATAAATAATAATAT  
AATTTGGGTCAAGTTAAGATATTAAGTTCCCTTTCAGCANNNNNNNNNNNNNNNNNNNNNNNN  
NNN

&gt;127

NNNACTGAAAATGAGGTGAAAAACAAGAAAGCTGAGAGAAATCAACATGTTCCCAA  
GTGCTGTATGTGAACAATAAATCTGAGACATACCTCTAAGGCTTTTCCAGAGACAAGAAAGC  
TCTCAACCTGTAAAGAATTCTGGGACATGACTGAGAGCAATGAGAACTCCCAGTGGTCCAG  
AAGGTTAGCAGATATAGTGTAGAGCATACACAGATATACTATAGTTTCATAAACTGGTGGCTT  
AGCTGTAAATCACAAAATAGCACTGGAATTACTAGTGATCATAGCACATAGTCCAAGAAGA  
AAAAATTTTGATCTTGTTCTTAAACTTTGTGAGCCAGTGGTGAAATGAGTCACACAAAGATG  
CAACAATGATTGAACCCAGCCCTCTTTAGACTAACATATTCTTGCCCATCACCACCAATATTA  
CAATAAAAAATCAAGACACATGAAGGAGCATACCTTTTTCTGAAAGTAAATATTGCTTACCTCA  
GTCTCTATTGTTATTTGATGCAAAACACCCAGCATGCAATTTGAATCAATAAGACATGGAAAG  
GAGCAAAAATGTAACCTATGCTAAAGAAAAAAGAGTGAGAAAGAGACAACAAAAGCAGA  
TCCAGAAATGGTTAAACTTTGTGGCATTATAAGGGAGGAGCTTTAAATAACAATTATATAAAT  
ATAGAAACATCTAGTGGAAATGGTGATCAGTATTTATCAAGTTATGGGAATTTGCAGCAGAGA  
CGTAAAAATGCTATTATTTTACAATTCCATATTTTAAATAAAAAAGAGTATGTTAAAAATAAAT  
TGGTAAAAACAAAATGTATCAAAAATTAAGATTTATGTAGATAGTCTTAACAGTAGAATAAAT  
TTGCAGTAGAAAAATCAATAGACTTAGAAAAATCAATAGAAGTAATNNNNNNNNNNNNNNNN  
NNNNNNNNNN

&gt;128

&gt;129

NNNNNNNCCGCCCGGCAGGTACAGTCAAGGCCGAAAACCACTGAGCTTTTCCCTCT  
GCCTGGCACATATCCACTGCCCTGCCCTTCTTCAGCTGATGAACTCTTCATATGCCTCCTTTT  
GGGTGTCAGTGGAAATGTCATTTCTTCTAGAAGCTTCTCTGGCTCTCCAGCCTGGCCAG  
GGCTCCAGCTATGAGCTTCCATAACACCCCTAGTTTCTCACATTGCCCTCATAGTATATGG  
AATTTGTTCAATTGCCTGGCTTCCAACAGATGCCAGCTCCAAGAAGGCAGGAGCTGCT  
TCTGGGTATTGCTTGCCATCAAGGCCCTCACACCCAACCTAATGCCTGGGCCAGAGTAGGT  
GCTTAATAAAAAATTTGTTGAGGCCGGGCGTGGTGGCTCACGGCTATAATCCAGCACTTTG  
GGAG

&gt;130

&gt;131

NGAGCTCACCGCGGTGGCGGCCGCCGCGGCAGGTACCTATCTGCAGAACGGTCATT  
AGCAGTTTTTCCAAACAAGCGACTTTTAGCAAATTAACCGTTAATTTAATGAGATTCAAAGT  
TAATAGCCATTCTTAACGTTTTATAATTAGAAGCTGTTATATAATTAGAGCTGGACACCCACAT  
GGAGAACTAATTTGACTGTGCTGCATTGACTTCACTTTGGTAACAGGAAGCACTTTTATG  
CTGTAGACCTTTGGGAGTTGTAGGGAGTTAAAGCTGATCATTATATACTATTATATACTTAGG  
GATACAACCCAAGGGCAACCCCTGCCCTTATGAAAACCTGGAGTGAGTTATTATTTCTG

Table 4

TAATACAATTCTCTGCCAGCCAGTTGCTGCATCAAACAGTTCTGATACACACACCTAAAGTC  
ACCACTTCCTCATTCTGGTCCCAATAACCTATAAGCCTCTCCCCTTGTAGGTGACCTCTG  
CCCTGTGAAGGGTTGGCTCACCCCAAGATTCCATAAAATAAGTTGTCTGTTTGTATGAGAA  
CAAGGCTTTTTAAGT

&gt;132

GTGGCGGCCGAAACCGTGGTGGCCGTGATCGTGCCGTTGGCGGACGGAACCTTGA  
AGATGTTCTGGGCGGCCAGCAATCGCCGCTTGCCGACGATGACATTGTTGGCCTTCAG  
CCCGTCAATATCGCCCTTGATGTGCGATGTTCTGGCTCTCCTCATCATGGCTCAGCGCAATGG  
CGGCGTTGCGCTTGCCGGTGCCTCCACGAGGAACAGGGCTGCGGCCGTGACACATCGC  
TGACGCGAGGGTCAAGTTGCCCTGAAGCAGCCCTTCTTGCTGCTGGGTGACATCACCGC  
GCAGCCGCGTGCCGCGCGCAATGAACTGGATATTGCTCAGGCGTTTTTCTGCTTGTGCGAG  
GGCAAGTTCCGTGGCAAGATCGGCCGCGACGCGTGCAGGAACGCCAGACCGGATACCTT  
GCCGTCGCGCGCTCCTTGACAGAAGTCCGTTGAAGGAGAACGCGCCTTCTGAGCTTGCCC  
CGGAAAGTTTGCCANN

&gt;133

GTGGCGGCCGAGGTACGATAATTCATGCCAATTTCTTTGGGAATACTTGTTTCTGAT  
ATAATAGGTTACAAAGCAAAATTGAGATGATTTTTAAATGCCATGCAGTTATTTTTCTGAAT  
AACATAAATTTTAAACAGAGACCTGAAAAAACCCCAAAAGTATTAACCTTTAAATACATAAAC  
TCAATAGAAATAATTTAACTGCCTTCTCTTCAAGAGGCAATCAGAAGGCAGGACTATAGTT  
TTCTGTGTTTCTTTCCACAGGAGAGATAATTACATTTCTAGAGACCCATAGAAACAATCCAT  
AGTTTTAATTTCTCTCTATCTCTAATGGTGTGCCAGGTATCTAACAGCAATTATCTTACA  
TTGCTGATTCTAACAACAATGATATCACTGGAGAAAATACAGGTAGACGCAATGCTCCCTTG  
GATTTGTCCGCCCAATAATTTGATGTTAAACAATTTTATAGCAATGCCTTCAACTCCTAAAGC  
AAATGGAATTTTCCATTTTGTATAAATTTATCTTGATAAGGGATGTTTCTGTTGTATGCGGTTA  
TTCTAAATTAATGATAATACATGGT

&gt;134

NNATAGTGATGAAGCTGGATAGTTAAACAGAAAACCTTGAAAAGCAAGATGTGGAAC  
GGGATATAGGATTTTCAAGGTTTAAAGAAATGTGACATTTCTTAGTGAGTTGTCCTTCCGATG  
TACGCGGGAAGCAACTGTCAGCTAGTGAGATTACTGTGTATGGCCAATCCAGATAAATAAGA  
CGATCAAGTCTTTATGAAAAGGAAAGAAAATTTGGAATGCACATCTCTGTCCAGCTCAATTC  
CTCACTCCTTTTTAAGATGGAGAGCTGTTAGGTTTGTCTACACAGTAGGAAACACCTGATTA  
AATAACAGCATGGAGCCAATCTTGACAAAGAAATTTGGCTGCATCCAATAGAATCCCAGGGCC  
GGTCGTGGTGGCTCATGCCTGTAATCCCAACACTTTGGCGGCCGAGGTGGGAGGATCACT  
TGAGCTTTGGTCTCAGGGCTTTGAGACCAGCCTGGACAGCATAGTGAGACCTCGTCTCINN  
NNNNNNNN

&gt;135

NNNACTCAGACAGGCAGATAAAGAGAGATCAAAGAGATGAGCATGAGATACAGTC  
CCCTCGTGCCCAAGGAGACAGGGTGGTTACAGACATGGAAAATCTGAGAATAATCACCTCT  
GATAAAGATCACAGAAGCTGCCCGGGAGGTGTTTGGTAAGCTTGGAGTTACGTTTGTGGGG  
TGGATGGGCAGAAGTCAGATTTATAGCACTGAGGATGCAGCACAAGGAGAAGTTCAAGAT  
CAATTCCTAAGACAACAACCTTGGCACTAAAAACATAAACTATGTTCTGAAGGCTTTACCTG  
NGGACAAGGGAAGGGAGGTGATAACAGCAGAAGTGGCAGCCACTGGCGATCCTTTCTTCC  
ATGGTTTGGCTTCTACTCCAAAGCCACTTATTTGTGCATTCTACANAAAGTTTCTTGTCTTTN  
TGAAATAAAGCTCTTATCCTAAGCTCCATTACACCTGCGTGATAATGAACCAGCTAGTACTT  
ACTGTACTCAGGAAGCATGCAAAGTTCTGAATCTTAGAACAGAAAGTGAAAGCAAAAGTAA  
TTCCCTTCAGTCAAATCTCGTCCGGCATGATTTAAGATTAATTCATGTATTGAAAATATTGT  
TCAGACCCCATGTGACATAACTGGAGCCAGTGCACTGCCATGAAGAACTACGAGATTAGCC  
TGGATATTAACCTTGTCTTCTAGAGAATAGATTTTATGTTCCATTCTTCTGCAATGGTTAATTCA  
CACAGAAAACCAATGTTTAACTTACAGAGGATTTTACTGCTTAACAGCCATCTTGCCCCAA  
ATATGCATTTGTTCTCAGTTCTCAGTGCCATCTAGTTATCACTTCACTGAGGATCCTGGGGCT  
TTCCAGTAGCCACTAATGGGGAACGATTTCTTGGCAGGAGCTAAGGCTCCCCAGTGTTGG  
TCATTCCTCTCCATTATGACCTCTTTGTCCACCCCAATCTCACCTCTCTGGACTTGTTGCT  
CTGAGAAGATCGAAGTCTTGGTCAGCAATGCTACCCAGTTTATCATCTTGACAGCAAGAT  
CTTGAAATCACGAATGCCACCCTTCAGTCAGAGGAAGATTCAAGATACATGAAACCAGGAA  
AGAAGTGAAGTTTTGAGTTACCCTGCTCATGAACAAATTGCACTGCTGGTTCAGAGAAAC  
TTACGCCTCACCTGAAATACTATGTGGCTATGGACTTCCAAGCCAAGTTAGGTGATGGCTTT

Table 4

GAAGGGTTTTATAAAAGCACATACAGAACTCTTGGTGGTGAAACAAGAATTCTTGCAAGTAAACA  
GATTTTGAGCCAACCCAGGCACGCATGGCTTTCCCTTGCTTTGATGAACCGTTGTTCAAAGC  
CAACTTTTCAATCAAGATACGAAGAGAGAGCAGGCATATTGCACTATCCAACATGCCAAAGG  
TTAAGACAATTGAAGTGAAGGAGGTCTTTTGAAGATCACTTTGAACTACTGTAAAAATGA  
GTACATACCTTTGTAGCCTACATAGTTTGTGATTTCCACTCTCTGAGTGGCTTCACTTCATCAG  
GGGTCAAGGTGTCCATCTATGCATCCCCAGACAAACGGAATCAAACACATTATGCTTTGCAG  
GCATCACTGAAGCTACTTGATTTTTATGAAAAGTACTTTGATATCTACTATCCACTCTCCAAAC  
TGGATTTAATTGCTATTCTGACTTTGCACCTGGAGCCATGGAAAATTGGGGCCTCATTACAT  
ATAGGGAGACGTCAGTCTTTTGAACCCCAAGACCTCTTCTGCTTCCGATAAACTGTGGGTC  
ACCAGAGTCATAGCCCATGAACTGGCGCACCAGTGGTTTGGCAACCTGGTCACAATGGAAT  
GGTGGAAATGATATTTGGCTTAAGGAGGGTTTTGCAAAATACATGGAACCTATCGCTGTTAATG  
CTACATATCCAGAGCTGCAATTTGATGACTATTTTTGAATGTGTGTTTTGAAGTAATTACAAA  
AGATTCATTGAATTCATCCCGCCCTATCTCCAAACAGCGGAAACCCCGACTCAAATACAGG  
AAATGTTTGATGAAGTTTCTATAACAAGGGAGCTTGATTTTTGAATATGCTCAAGGATTTTCT  
GGGTGAGGAGAAATCCAGAAAGGAATAATTCAGTACTTAAAGAAGTTCAGCTATAGAAATG  
CTAAGAATGATGACTTGTGGAGCAGTCTGTCAAATAGTTGTTTAGAAAGTGATTTTACATCTG  
GTGGAGTTTGTCAATCGGATCCCAAGATGACAAGTAACATGCTCGCCTTTCTGGGGGAAAAAT  
GCAGAGGTCAAAGAGATGATGACTACATGGACTCTCCAGAAAGGAATCCCCCTGCTGGTGG  
TTAAACAAGACGGGTGTTCACTCCGACTGCAACAGGAGCGCTTCTCCAGGGGGTTTTCCA  
GGAAGACCCTGAATGGAGGGCCCTGCAGGAGAGGTACCTGTGGCATATCCCATTTGACCTAC  
TCCACGAGTTCTTCTAATGTGATCCACAGACACATTTCTAAATCAAAGACAGATACTCTGGAT  
CTACCTGAAAAGACCAGTTGGGTGAAATTTAATGTGGACTCAAATGGTTACTACATCGTTAC  
TATGAGGGTCATGGATGGGACCAACTCATTACACAGCTGAATCAGAACCACACACTTCTCAG  
ACCTAAGGACAGAGTAGGTCTGATTCATGATGTGTTTCAGCTAGTTGGTGCAGGGAGACTGA  
CCCTAGACAAAGCTCTTGACATGACTTACTACCTCCAACATGAAACAAGCAGCCCCGCACTT  
CTCGAAGGTCTGAGTTACTTGAATCGTTTTACCACATGATGGACAGAAGGAATATTTTCAGAT  
ATCTCTGAAAACCTCAAGCGTTACCTTCTCAGTATTTAAGCCAGTGATTGACAGGCAAAGC  
TGGAGTGACAAGGGCTCAGTCTGGGACAGACTGTCTCCGCTCGGCTCTCTTGAAGCTGGCCT  
GTGACCTGAACCATGCTCCTTGATCCAGAAAGCTGCTGAACTCTTCTCCAGTGGATGGAA  
TCCAGTGGAATAATTAATATACCAACAGATGTTTTAAGATTGTGTATTCTGTGGGTGCTCAG  
ACAACAGCAGGATGGAATTACCTTTTAGAGCAATATGAACTGTCAATGTCAAGTGCTGAACA  
AAACAAAATTCTGTATGCTTTGTCAACGAGCAAGCATCAGGAAAAGTTACTGAAGTTAATTGA  
ACTAGGAATGGAAGGAAAGGTTATCAAGACACAGAACTTGGCAGCTCTCCTTCATGCGATTG  
CCAGACGTCCAAAGGGGCGAGCAACTAGCATGGGATTTTGTAAAGAGAAAATTGGACCCATCTT  
CTGAAAAAATTTGACTTGGGCTCATATGACATAAGGATGATCATCTCTGGCACAACAGCTCA  
CTTTTCTTCCAAGGATAAGTTGCAAGAGGTGAACTATTTTTGAATCTCTTGAGGCTCAAGG  
ATCACATCTGGATATTTTTCAAACCTGTTCTGAAAACGATAACCAAAAATATAAAATGGCTGGA  
GAAGAATCTTCCGACTCTGAGGACTTGGCTAATGGTTAATACTTAACCTCGAGGCATGGTCAA  
TAGAAAAAGTAGGCTGGGCGCGGTGGCTCACGCCTGTAATCCAGCACTTTGGGAGGCTGA  
GAAGGGCGGATCACGAGGTCAGGAGATGGAGACCATCCTGGCTAACACGGTGAGACCCCG  
TCTCCGCTAAAAATACAAAAAATTAGCCGGGCATGGTGGCAGGTGCCTGTAGTCCAGCTAC  
TCGGCAGGCTGCAGCAGGAAAATGGCATAAACCCGGGAGGTGGAGCTTGCAGTGAGCCGA  
GATTGCACCACTGCATTCCAGCCTGGGTGACTGAGCGAGACTCTGTCTCAAAAAAAAAAAAA  
AAAAANNNNNNNNNNNNNNNNNNNNNNN

&gt;136

CGCGGTGGCGGCCGAGGTAATTAAGTATATCAGGGCAGTTTCATGCCAGGGAG  
CCAGGGAAGGCACCCAAGGAAGTGATGGAAGAGTAGAAGTTCACCAGGTGCAGCTCAGGA  
AAGGGCTCAGCAAATTTCTCTGTAACAGGATGCAGACCCCGCGT

&gt;137

GGAGTCGACGTGTGTTTGTGGGTGAAATGGCTGCGCAGGTGCGAGCGGTGCGCGT  
AGTACGGGGCGGTGGCGGCGCAGGAGGAGCCGGACAAAGAGGGGGAAGGAGAAACCTCATG  
CTGGGGTCTCCCCGCGGGGAGTTAAACGGCAGCGCCGATCTAGCAGTGGGGGGTCTCAGG  
AGAAGCGGGGGCGGCGGAGCCAGGAGCCCTCTCGCTCCCCCTCACCGGCGGCGTCCG  
AGCGGCCAACATCCTGGGCGGCTGCCGCCAACGAATGCAGCCCCAACTGTCCAGGCCCT  
GTTGAGCCTCTTCTCTGCGCCTCCGCGCCACCTTCGCTGGCACCCGCGGGGCGCGT  
GTCGCTGCCCCCTCTCCCGGCCCAAGCACCTCGGCCCTCTTACCTTCTCGCCTCTGACGG

Table 4

TGAGCGCGGCCGGGCCCAAGCATAAGGGGCCACAAGGAGCGGCACAAGCACCATCACCACC  
 GCGGCCCGGATGGTGATCCCAGCTCCTGCGGAACCGATCTCAAGCACAAGGACAAGCAGG  
 AAAACGGCGAGAGGACTGGAGGGGTGCCTCTGATCAAAGCCCCCAAGAGAGAAAACACCAG  
 ATGAAAATGGTAAAACCCAGAGAGCCGATGATTTTGTCTTGAAGAAAATAAAGAAGAAAAAG  
 AAAAAGAAACACCGAGAAGACATGCGAGGAAGACGCCTTAAAATGTACAATAAGGAAGTACA  
 AACCGTCTGTGCTGGCCTGACCCGCATCAGTAAAGAAATTCTCACCCAAGGACAAATAAATA  
 GCACCTCAGGACTTAATAAGGAGTCCTTCAGGTATCTGAAAGATGAACAGCTGTGCCGATTA  
 AATTTGGGTATGCAAGAATATCGGGTACCCAGGGAGTACAAACACCTTTTATGACTCACCA  
 GGAACATTCTATTCTGTAGAAATTTCTTAAAAACAGGTACTAAATTTAGCAACTTTATTCATGAG  
 GAACACCAGTCCAATGGTGGTGCTCTTGTCTTCATGCTTACATGGATGAACTCTCATTTTTG  
 TCTCCAATGGAGATGGAGAGATTTTCTGAGGAGTTTCTTGCTTTGACATTCAGTGAAAATGAG  
 AAAAATGCTGCTTACTATGCTTTAGCAATAGTGCATGGAGCGGCTGCTTATCTCCCAGACTT  
 CTTGGACTACTTTGCTTTTAAATTTCCCCAACACTCCAGTGAAAATGGAAATTTCTGGGCAAGAA  
 AGATATTGAAACAACCACCATTTCAAATTTTACACTCAGGTCAACAGGACATCTGCTGTGG  
 CACCTACCGAGCAGGTCTATGCGGCAGATAAGTCTCGTTGGAGCAGTAGATGAAGAAGTT  
 GGTGATTATTTCCAGAGTTCTTGATATGTTAGAAGAATCACCATTTCTGAAAATGACTTTG  
 CCCTGGGGTACACTTTCTAGCCTCCGACTCCAGTGTAGGTCCAGAGTGATGATGGGCCTA  
 TAATGTGGGTAAAGGCCAGGAGAACAGATGATCCCTACAGCAGATATGCCAAAGTCAACCCTC  
 AAAAGACGACGATCAATGAATGAAATAAAAAATCTCCAGTACCTACCTCGGACCAGTGAACC  
 CCGCGAAGTTCTCTTTGAAGATAGGACTAGAGCTCATGCTGATCATGTGCGGTGAGGGTTTG  
 ACTGGCAGAGTACGGCTGCTGTTGGAGTTTTGAAAGCTGTACAATTTGGTGAATGGAGTGAC  
 CAACCTCGCATAACCAAAGATGTGATTTGTTTTCATGCTGAGGATTTTACTGATGTTGTACAA  
 AGACTTCAGTTAGATCTTCATGAACCTCCAGTTTCCAGTGCGTACAGTGGGTAGATGAAGC  
 TAACTAAACCAATGAGGCGGGAAGGCATTCGTTATGCTAGAATTCAGCTTTGCGACAATG  
 ATATCTACTTCTCCCTAGAAATGTCATTCTCAGTTCAAACAGTTTTCGGCGGTGTGCAGCT  
 TAGCCTGGCATATAAGGCTTAAACAGTACCACCCTGTTGTGGAAGCCACTCAAACACAGAA  
 AGCAATTTCTAACATGGACTGTGGTTTAACTGGAAAGCGAGAATTAGAAGTTGACTCCCAATG  
 TGTGAGGATAAAAACCTGAATCTGAAGAAGCATGCACAGAGATTCAGCTGTTAACAACCTGCTT  
 CATCATCTTTCCACCTGCATCAGAACCTTAATCTACAGCAAGATCAGAAGACTCAGCCTATT  
 CAGTTTTTAAAAGTGGAAGTAGACTGGACTCTGACCAGCAACACAATCTGCAAGAACATTCA  
 ACCACTTCTGTGTGATATGTACATATTCAAACACATTTTTTAACTTTTTTAAATTTTATGATGAA  
 GTTATAGTTTTATAACTGGCTTAAAGTTAAGTTTTATTGGAGAAATCTTGCCTATAATTTCTATAA  
 AGAGAAATGACATTCACAAATGTCAAGCATATCTTTTTTACACAGATTATGCAAAGTTAAGA  
 GTTGATCTTTATCCCGTTAGTACAGTATGTAATAGTGGGTCTGCTGCTACTTTCTGTTTTAAG  
 GTGTGAGGTAACAATTCATCTCTTCTCAAATCAAATGAGAATTCCTCTGGAATAACAGATT  
 CTTGTTTGGTAAATTAATCACTTCCCTTAATTTTATCTTGCCTTGTCTCTTGCCATATTTGCTGT  
 TTTTATGGATAAATAAGATTTATGTTTTAGTACTTGTGTCTTTATGGCACAGGTTCAATTTCTA  
 CAGTGAAAATGGCATAGGTTGCAGGAAAGAATTTCTGCATCTGGTACATGGGCAAGTAAGTT  
 ATTTAGTTCTAACCACAAATAACAAGTAGTTTTCCAAGGAAATTTAGTGGCTCTCTGTTTCTT  
 AACAAAAGAGAAAGCACAGCACTTTCTGATCCAACTGTCTTTTTTTTGTATCTGTTATTTAAA  
 GCCCAGTGGATATTTCAATTACAAAAAATTTAGGATGAATGGCCCTGGGAATAATAACGGGG  
 CACTAACTGTTAGAAATATGCTACGTGGAAAATTTGGGCAAGACATATGGGCGGACCAGGTG  
 ACGGGCTCCAATGTGGGGATTGCTAAGGCAAATATACGAAAAATGTGGGGAATGGCACAAA  
 AATCGGGAATAATAGTACAAGTGGTTCACGAGAAAACCTTGGTACTGGCTAATCTATANNNNN  
 N

&gt;138

NNGAGAGCGACGCGACATGTGGAGGGTCGAGAGGTTCAAGATGTTGGATGTGGCG  
 CCCCCCGCATTTGCTGTTGAAGCATTGCCGGCGGGGGCACGGATTCCCGCTGTGGAAGG  
 CTGACCAGGCATCTGAAGCCGGGAGTTGAGACCGCCTGGCCAACATGCGAAACCCATTGG  
 GTCTGTAAGATATACAAAAATTAGCCAGGCATGGTGGCGCAAGACAGTAGTCCCAGTACTCG  
 GGAGGCTGAGACAGGACAATTGCTTGAACCTAGGAGGTAGAGGTTGCAGTAAGCCAAGATC  
 GTGCTACTGCACTCCAGCCTGGGTGACAGAGTAAGACTCCATCTCAAAAAAAAAAGAAAAA  
 ATTGACTTTGGAACCTCAGATTACATATCAGTTTGCATACATGCTAAACAGAGAAATGTCCTC  
 AAAATTCACTTACTAAAAATTAATGATATCTCCATGATTAGAACCACACTGTGGTTGTGTGTG  
 TAGTCAAAGGAGGAGAATTTTAAATGCTATATAAGCATAACTGATAACTGCTATTACAAATAA  
 TATCCACAAATTTGGAAGTTATTAGAGGAAGAATTTTTTTTCTTGTAAATTTCCAGGTGTTT

Table 4

ATATTAGTTGGGCCATAGTGAAAATTACATGGAGGAAAGAAAATAGGAAAATAAGTCACAGA  
AAAAGAAAATCAAAACAAATAGAACTCTGGGGAACAAGTGAGTTAATTACCGCTCATGTCTC  
CCATCCGGTTCTCTAGCTCCTTGAGGGTTACTGTCTAATGCTCCACAAAAGTGCCCTACCCA  
GTGCTTGGTACAGAGAAGGCACTGAATAAATTCACAAAGGCCGATTGGTTCACCCATTCTTT  
TAGAGACAACAGACACGCAATTCTGACGAGGACTCCTGTTACTAAAAGACACAGCCTCTGAT  
ACAAGAGAGATATCCCTTTGACTAAAGCATTACCAGGGTCCCCAGGGCCCCCTCCCACTGG  
GGCGGTAACTACGGGTCTCCCCACCATATATTCCATGTCAAAGTATCTACACAAATACAG  
AGGAAATTAAGCAAGTAAATACGGTATGTAATTGTTATCATTGTATTCTTTAAGGCATATTT  
ATAAATATTTTAAAGTAAACAATATGAGTGAGTGCCCTTCATTAGCTATGATCTTTCATACTGA  
TATATTTTGAAGTATCTGAATAAGCAGGTTACTGTGGAAGCATATAACATAAAACAGCTAATA  
TGATTCCAGTGGGTACAACCAAGTGTCAGTACTTGATACATAACTCTATCCCATCATTGCAA  
TTACAGGCTGCTGTGTGGAGTATTAACATGCATCTTAGTTTTTATTTGTACACAATGGTCCA  
AATTTTCACTTACATATAACTTTCCAAGTGTGTAAGTGTGTTGAAGCAATTATGTTTTCTTTG  
GATTTTTTGGTGTGTCTTTCTTCTATAAAATCTCTTCTTTCTTTGTTTTTTGTTTTTTGTT  
TTTACATGGGATACAATAAATCGGACGCNNN

&gt;139

NTGAGCTCCCCGCGGTGGCGGGCCGAGGTACCTTCCCCTGAGGAGCCCCCTTCAGA  
GGGGTGAAGAGCAGTATCTTCAGAGGCCATCCAAGTTTTAGCATAACAAGGAGGGAAAGAG  
AATGCAGAGAAGAGGCTGGTGATAGACAAGTTTCATGTTCACTTGAATTGCAGAGGTCA  
AGAGTTTAAAGAGTTGGGATGGAAAGAAATCAAGAATTGGGCTCGGCCGCCACCGCGGGG  
AGCTCCAN

&gt;140

&gt;141

NTGAGCTCCCCGCGGTGGCGGGCCGAGGTACCTTCCCCTGAGGAGCCCCCTTCAGA  
GGGGTGAAGAGCAGTATCTTCAGAGGCCATCCAAGTTTTAGCATAACAAGGAGGGAAAGAG  
AATGCAGAGAAGAGGCTGGTGATAGACAAGTTTCATGTTCACTTGAATTGCAGAGGTCA  
AGAGTTTAAAGAGTTGGGATGGAAAGAAATCAAGAATTGGGCTCGGCCGCCACCGCGGGG  
AGCTCCAN

&gt;142

&gt;143

&gt;144

NNNNATAAGCTAGGGGCGTCCACTCCAGAGCCTGATCCAAAACAGAACGCTAACGG  
CCGTTGCCCTTACATCTCTCATTGGAAGTGACAGGTATTAATAACGGCATATGAAAGCTTA  
AAAGTCAGCAATACAATCACTGGGTACTTTGATTACCCAAACCAGGCACCTTCTAAACTC  
CCACTTCTTTACTTCTGCGGTCTCCTTTCTTTTATCCCCCGCGT

&gt;145

&gt;146

NNNACCGCGGTGGCGGGCCGAGGTACGCGGGGAGATTTTCAACTTAAATCAAAAC  
CAAGCCCTACTGCCTGGTGAGCAAGAGAGATTCCAAAGACTTTACTTTGAAAAGCATCTCCC  
AGCTTCTACTTTTTTTAAGGAAAAGTAGATTTTCTTTGTCTTTGTTTTGTTTTAAGCAAGAAC  
AGAATCTAATGACTTTTTTTCATGCCATCGCTTTGAAATAGCGTCGTCTTCTTTCTTCTCTCC  
CTCTTCTGGCAAAGTATATACTGGATTTTATTGCCTTCTTGGGTTTTTTCCCTACGTGTAT  
CGGCCGTTATGCTTAGCCAGTTTATTCTTTATTTTTTACTGGAGTCATTGCCAGTGATGGAA  
ACGGTGTTTGCTTCTTTTCACTCAAGATCTGCACAAAGTATAGCATTAGGTGGTATTTATTG  
TTTATATTATGAGTCTACATTCATCTTTCCAGCACTCTGAAGTTATCAGCAAGTTCTCAGTCA  
GTTCAAGGCATTGGATTCTGCTTGATTTCTTTTAAATTCATTGTTTTGACCCCTTTGAGAGTT  
TTAATAGAGAGGAGTCTGGAAGGCAGAGATCTCCACCACCTAACCGTGAGAAATTTGGAAC  
AAGACTTGCACTGGTCCCAAGTTAACAGTGGATATACTTCTGCAATTTCTCTGTTCTTTCT  
TTGCAATTTGGGCAAAATGTATGAACGGCACAAAGAGGCGCTACAGCCTCTGTGACATCTCCAA  
GGTGGACAGGACTGTGGACGTGGTATTGCTGAAGATAAACCAGAGAAAACCTGGTGTACAATA  
GAGCCATGCCCTGATGCAGCATCTCTTCTGGCTTCCAAGCAGAGCCCAGAATGTGAGAACT  
TCCTGGATGTTGGACTGGGCAGAGAGTGTACCTCAAAACAAGGTGTACTTAAAGAGAATCT  
GGGAGTGATTCTGACCTCTTTCACTACCCAGTGATGACATGGACAGCATCATCTTCCCAA  
GCCAGAGGAAGAGCATTGGCCTGTGATATCACCGGATCCAGTTCATCCACCGATGACACG  
GCTTCACTGGACCGACATTCTTCTCATGGCAGTGATGTGTCTCTCTCCAGATTTTAAAGCC  
AAACAGGTCAAGAGATCGGCAAAGCCTTGATGGATTCTACAGCCATGGGATGGGAGCTGAG



Table 4

GGTCGAGAAAGTGAGAGTGAGCCTGCTGACCCAGGCGACGTGGAGGAGGAGGAGATGGAC  
AGTATCACTGAAGTGCCTGCAAACCTGCTCTGTCTAAGGAGCTCCATGCGCTCTTTCTCC  
CTTCCGGAGGCACAGCTGGGGGCTGGGAAAAATGCAGCCAGCGATGCAGAAATGAACCA  
CCGGAGTTTTTCAGTCTAGAAGGCTTGACAGGAGGAGCTGGTGTGCGAAACAAGCCATCCTC  
ATCTCTAGAAGTAAGCTCTGCAAATGCCGAAGAGCTCAGACACCCATTAGTGGTGAGGAAC  
GGGTTGACTCTTTGGTGTCACTTTCAGAAGAGGATCTGGAGTCAGACCAGAGAGAACATAG  
GATGTTTGATCAGCAGATATGTCACAGATCTAAGCAGCAGGGATTAACTGTACATCAGC  
CATTTCCCTCTCCATTGACAAAAATCCATCTCATTAAATGACAATCAGCCATCCTGGATTGGACAA  
TTCACGGCCCTTCCACAGTACCTTCCACAATACCAGTGCTAATCTGACTGAGAGTATAACAG  
AAGAGAACTATAATTTCTGCCACATAGCCCCTCCAAGAAAGATTCTGAATGGAAGAGTGGA  
ACAAAAGTCAGTCGTACATTAGCTACATCAAGAATAAAATGTCTAGCAGCAAGAAGAGAAA  
ACAAAGAGGGGCGTCTGGGGGAAGGGGAAGGAGAANN

&gt;147

ACCCAAGGTGGGCATTTTTTTAAAAAACCCTGGAATAAATGCTACTTCTTGTTAGT  
GTTGTTTGAAAATAAACAAAGAAAATGCAAACAAAACAAAACCATGGTCCATTCAAGCTCAA  
GAGTATTTAACCAATGCTCTGTTGCCTCTTAAAGGATTGGTAGCTATTTCCCATCTACAAAT  
ACATGACAATTAACCTAAGCCCAATTTCTTTAAACTATCTGGAATTAGGTCAAAATTATCTAATT  
TTTTCTGATTTAATTATGGATTACGTAATCCAATAGTTGGCAACATTATAAAACCCTAACTTT  
ACCTCATTGTTTGGCTATACCAGGTCTCATGACTCTGGACATAACCACCATCCTTCTCCCAA  
CACCCGCGTACTCAGAGTAAAACCCGGAGCTTCATGATAACCATGAGGCCCGCAGCTTCT  
GCCTCCAAGGCTTCTCTGGCCTCACCTCCCGCTGCTCCTCTCCTCA

&gt;148

GTGGCGGCCGAGGTACCTATGTGCGCGGTGGTAGAAAAGCACCTGGGTGCGGTGCG  
AGACTGCGGAGCGGGCCCTACCGTGTGCGCAGAAAGAGGAGGCGCTGGACTTATCCTACC  
TTAAGTTGAAGCAGACCAGCAATTGTTGTGACCTACAATCTCCACACCCATCTTTACTCTGAG  
CCAAGGAAGTGCTGTTCTTGCTGCTGAGTTTCAGGTGCTTCAGCTTGTGGGAAATCCCGAA  
GATGGCCAAAGACAACCTCAACTGTTGCTTCCAGGGCCTGCTGATTTTTGGAAATGTGA  
TTATTGGTTGTTGCGGCATTGCCCTGACTGCGGAGTGCACTCTTCTTTGTATCTGACCAACAC  
AGCCTCTACCCACTGCTTGAAGCCACCGACAACGATGACATCTATGGGGCTGCCTGGATCG  
GCATATTTGTGGGCATCTGCCTCTTCTGCCTGTCTGTTCTAGGCATTGTAGGCATCATGAAG  
TCCAGCAGGAAAATTCTTCTGGCGTATTTCACTCTGATGTTTATAGTATATGCCTTTGAAGTG  
GCATCTTGTATCACAGCAGCAACACAACGAGACTTTTTACACCCAACCTCTTCTGAAGCA  
GATGCTAGAGAGGTACCTGCCCTGGCGGCCGCCACCGCG

&gt;149

NTGAGCTCCCCGCGGTGGCGGCCGAGGTACCTTCCCCTGAGGAGCCCCCTTCAGA  
GGGGTGAAGAGCAGTATCTTCAGAGGCCATCCAAGTTTTAGCATAACAAGGAGGGAAAGAG  
AATGCAGAGAAGAGGCTGGTGATAGACAAGTTTCATGTTCACAACTTGAATTGCAGAGGTCA  
AGAGTTTAAAGAGTTTGGGATGGAAAGAAATCAAGAATTGGGCTCGGCCGCCACCGCGGGG  
AGCTCCAN

&gt;150

&gt;151

ACTTTTTTTTTTTTTTTTTTTTTGTTTTTGTTTTTTCTGTCCCCTCTGAGCCATGGAAG  
ATACTGGAGTTAAACAAAAATTTATAAACTAAAGAAAGCAACTTTATAATCTAAAAGAAAGCAA  
CTTTCCCTCCTGTCTTTTGAATTCTTATTCCTGAAAGAATGGATAATGAATCAGGAGATGAGC  
AAAAACGTATCTTTACAAAGCTCTAGTCTTCCAAAAGCCTCTAAACTCAAACGAAACCTTTT  
AAAGTAGTTTTGTAAGGCTCAAGGTATGCCATTTCCAGAAAGTTGCAGATGAGCACCATTG  
GCATTACCCAAATTTCTGTACACATTGAGCAATGAAATTCAGGAATTGGACAATGACCTCTTG  
GCATATGAAAGAATTAAAAGAGGGCTAGGGCTTAGGGCAGGGATCTAATCGGGGAGGATGT  
GCTGTCCGAGCCTCCCTCCCTCCTCTTCTCGCCTTCAGGTAGATGGAAAGAAAGGTTCA  
GTCATCTGAGAGAATATCCGATTGTCTTGAATTTTTTCCCTATTGACAAAGCAAGGCATG  
AATGAATATTCAGTCTGATTAGATCTTCCACTTGACAATGACTGTCATTACCTGGCTAACAAA  
ATAATATACATCTGTGTATGTGAAACCACAATGGCTGATGTTTCAAATTTCTAATACATTATAA  
TCTGGTTGGATTGAGTGGCTAACAAATGCCACAATCCCATGAGGTAAACAAAACATTATCTCT  
GGATTTCTCACCTCAGATCTAAGCATCTCCTGTCCATGCAGTACCTGCCCNNNNNNNN

&gt;152

NNNNNNNNNNNCAGGAAATCATCAATCGCAGTAGCAGTGAAGCAAATCAGGTGGTT

Table 4

CGTCCCAAACTTCAAGTAAATGGTCTGCTCCTGGTTCAGCTCCACAGTTAACTACAGCCAT  
TTTGGAATTAAGAAAGCATATTGTCTTTGCTAATTAACCTTCACCACAACTCTCAGGAAAA  
CAAACTCCTACTATCCTCCTTGGCTTGATGACATAGAAAATTTAATCCAACCAGAAATTCCT  
AAATACAGTCATGGAGATGGTATAACTGCCGTGGAAAGAATTTTACTAAAAGCTGCATCGCA  
AAGTAGAATGAACAAACGCATCATTGAAGAGATATGTAGAAAAGTGACCCCTCCTGTACCAC  
CTAAAAAGTCACTGCAGCAGAGAAGAAAACATTGGACAAAGAAGAAAGGCGACAGAAGGC  
TAGAGAGAGGCAGCAGAAATTGCTTGCGGAGTTTGCTTACGACAGAAAGGCTTTATGAAAA  
CTGCAATGGATGTTGATTCTCCTGAGAATGATTTCTATGGAGATCACCACGGCAGAACCA  
CAGGTTTCCGAGGCAGTATATGACTGTGTTATTTGTGGACAGAGTGGCCCCCTCCTCTGAAGA  
TCGACCTACTGGATTTAGTCGTCTGTTACAAGCATCTCAAGTTAGGGGCGTGCGCTGACAA  
TGTGACCCAAAAAGTGGCCACCAGGAAAAGACCAATTACCTGGGATACGTGCGCGTCAGAA  
GAGGTTACAATACGGGTATTAGGAAGCAGCCCGCGAAATGGCGGAGGGGGTTGTACCGGC  
CCTCTTAAAGCAACCCAGCCACAGCGACTCCGGTCCGAAGGCCCGCAGCAGTCCCCACAG  
ACAGCTCACAACAAGCCGCCACCACATCCATAACTCACTGCCCNNNN  
>153

GGTGGCGGCGGAGGTACACCTGCAACTGTGCGAATGGTCCTGTTGCCTCCTGCATT  
TTGGCCTCTGTTCTATAAAGGAAGAGTAAGATGGAGCTCCTCCTGCCTCCATCACGAAAGC  
ACATATCATCTGCCCTTTGGATTTTACTTCCAGGACGCGTGTCTGCTCCCGAGCGTGTGTTGC  
CTTATGGTGCCGGCAGAGCCTCAGCTATCTGCCTGGGAAGTCGGATGTCCTTGGAGAGAAT  
TTGGAATGCAGATAATTTTTCTTATTTCTTGAGAGCTTACTTTAATCAGCATGACACTACCTAA  
ACACTGAAGATGGCCTTATATTAGTAAGATTTGCACAAAATTAAGTATACCTATGCAAACTATT  
ACTTTGGTTTTTAGGAGTTTGGTCAGATGAAGAAGTAATGGTATCACATATATATGAAGAAG  
ACAACCATCATTATTTTTGTAAAGTGTTTTATAAAAACAACTGATTAACCTGTGAANNNNNNNN  
NNNNNNNNNNNNNNNNNNNNNNNN  
>154

TCCACCGCGGTGGCGTCCGGCCCCCGCCTTTTCTGCGGCTTTCAGCGCGCGTTC  
AGGTGCTCAATGAGGTGCTCGGCATCTTCGAGACCGATGGACAGGCGGATCGTGCCCTGG  
CTGATGCCTGCGCCCGCCAGCGCTTCGTCTGCTGCGGAAATGCGTGGTGCTGGCCGGG  
TGGATCACCAGGCTGCGGCAATCGCCACGTTGGCCAGGTGGCTGAAGACCTTGAGGGTTT  
CAATGAACCTCTTGCCCTGCTCGCGGTTGCCCTTGAGGTCAAAGCT  
>155

NNNNNGTGGATACATAAAAAATGTGTAGTTTTTATTAGTTTATTATACTTTTATTAGTTC  
AGTCTCAATAAAAGGTTGAAAGGCATTACGATAAATTGTTCTGTCTGTTTATATCATTTCTTCT  
GGCTGCTCACTGAGTCTTAATCAGTGTACTAGACTGCAAACTAAAGAATAAGATTGGGGGCA  
GGTTATAAAAAGAACATGTATAAAGCTTAGCAAACCCCTTTTAAATGTTCTGAAGTCAGTCTTTG  
TAAGTGAATCGCTGGAGACTAGAAAGTATGAAATGGCAGTCTACCTGGGCAACCTACAAAA  
AATTTAGCTTGAAAAGACTTCAGTCTCCGCTCCCTGTTGATCTCATGGAGTGGGGAATGGG  
AATTGAACCAGAACTGGAAAATTATTTAGGAAAGTTTGTTAACTACTCTTTGTTGATCTCATGG  
AGTGGGGAATGGGAATTGAACCAGAACTGGAAAATTATTTGGGAAAGTTTATTAATACTCTT  
TCTGCTGAGTAAATTTAAATGTGTTCTGGACATTGTTGAGGTCTAGAATTGGTCTATACAATG  
CCCCTGTACAAGCTACATTGTGTCAATTGTCAAATCAGGAGTTTATTGGATTACATATACTTT  
GTGCTTAATTTTAGTATGATTACTTCCGACTGGTGATTATACGTGACTTTGGGCGTCTTTATA  
GGGATGGAAGGGAAGGATGGGGGGGGGAAAATACGGGGTTCTTTACAGAGGGGGCCCCCG  
GTTGGGGGGGGACCTAAGAATCTGGGGAGGGACCATTGGTTTGGCGATTATAAGGGGGGG  
GCGTCAACAANNN  
>156

CAAAATAGAACCACCTGAAGTAAGACAAGGAAAGGACAGTAAAAAAGGCAAGGAA  
GAAGAGCTGAGAAAGAGCTGCAAGAAAAAGATGTGAGAACTGAGGAGAAAACCAATGT  
GACTTTTCGACCAGAGAATTCCATAATTAATAATGATGATTAGAAATCATTAAAGAAACCCAA  
GGAACAACAAGAACATTGTGGTTCCCATCCTTTGGATGACTTCGACGTTCTTTTGAATGCT  
ACAAGATGATAATACTTCAGCTGGATTGCATTTTCATGGCCTCTGTAAAAAAGAAAGCTATAGG  
AAGCCAAGATGCAAGCACCAGAGCGGGCGACCGCCAGCCCGGN  
>157

NN  
TCTTCTCTGTTTGTTTTTTTTTTTTAAATTTTACTCGTTTCTTTATTAATATAGAAAAGGAGCCC  
>158

Table 4

AGGGCAGCTGGACCAGTAGTACAAAGCACCAGGAGTTAATACCATTCTGGTGAAGGGGATG  
GTTTTACAAAAGTGAAGGAGCAGGCAGGAGCCACCAGGTTCTGAGGCCAGGCCAGCCTAC  
TGCCCAGAACCCCTGAAACGGCTCCCTGGGAAAAAGCTGACAGATGGGTGAGGGGTGGATT  
GAGCTGGAACCATGGGGACAGATGGCAGGGATAGAGGGTCATGCAGTGGGAACCA  
GTGGCTGATAAGGACAGGGAACCTGTGGCTGGAGGCTCCCCATTGGGCCATGGGCAGGGG  
CTTGCAGATGGCCTCAGCTCTGGGGGCAGGTAGAGAACTGCAGAGACTGATGGGCATGG  
AGAACCCAGACATGGCCCTGGGGCTGAAGGGCCTTTCCACCCTCTCTTACCAGGAGCCAC  
CTTTGCTCTATACTACATATGGGGCTTCAGGGCCCCAAGGCACAGGGGAGGCTCAGAGGCCT  
CCAGTTGGGAGGAAGATGGGGCAAGGAAGGAAGCACTTGAGTGTCCCTAGCTTAGGCAGC  
CGGGGATGAGACACAGGCAGGACAACAGCACCCCCGCATAGTGGGGCTAGAATGTGGGAC  
AGGGACGGGCTTATCCTCGGCCAGTGACTAGGACCAGCCCCATGGCAATGGTGCCTGTCTC  
CAGCCTTAGCAAATCAAGTGTGCAACAAGCACAGGGGTGTGGCAGACCTGGGCTCTAGCCT  
TACAAGCTCTGCCAGAACTTGAATCACACAGAGCTGTATCACCATGGTCCAGCCATGTCTG  
CCTTGGCCTGTTTCTCCTCTGTCAATGAGGGCTTTGAATAAGACCTCCTAGGTCATGA  
GGACTCTGCAGGTGAAGGGAACCTCAGGACCTGCTCTTGGCAGTTAAGCAGACCCTGGATG  
GAACTGGTATGGGATGGGGTGAAGTGGGGGATGGAGGAGGAAGGTGTTCTTGCATGGAAC  
CTATCCCCACAAACACTACAGAGTGAGGAAAGGCCACTGGAAGCCCTTCTTTGCCAGAGG  
AAGAAAGGCCACAGAGAGAGTGAATGTGGCTTGGTGAATCCCTTCACATCCTCCACCATCT  
GGGTAACACTTGGCAAGGAGTGGATGGTGGCATTGTGCAACCCTTTATGTTCTTCCCTGG  
GGGTGGCACTCAAGGCCTCTTGTGGCTTCTGCCTTCAGCCTTCAGTGTAGGGTCAAGAGTG  
TTCTTTTCACTGTCGTCTGTCTGGGAACAGCACAAAGACTCTGCCTGGCTGGCACATGTTA  
GTTGGTGAGGAAAGGACAGAGTGGGTGAGTAAGCAGACAGGGAGGTAAGAGTGAAGTCTCT  
GGCTTTCTCCTCTTCTCCTCAGAGAGCAGCTCAATCAACTGAGTCGCAGATCTCCTCCACC  
ACAGCATTGAAGATGTGTGGCTGGTCAGCATAGACATGGTGGGAGGCACCCTTAATCTCCA  
TGTCTCGGACATAGGAATCCGGCCGCTGCATCTTCACCTTTTTTCCCGTACTGGTATCTATC  
CAGGTGTCCGACCCGTAGATCATAGTGATAGGCACATCTTTTCAATCAAGTGAATTCGCTC  
CAGCATAGGGCGCCGGGCCAGCCAAAGGACTCCATCATGGCTTTGAATGCTGTCTCACCA  
CTGGGATTCTGTGCGTTGCAGTGGTAAATATACTCTGATATGGTATCATCTTCAAAGAAGTCT  
GCAAACTTGCGTTTGAAGTCCGGCCGGAATCGCTGCACCAGACCAGGCCCCAGGGCCCA  
GCTACTCGAAGAACAGCCAATGGATTGGAACGTCTAGGACAGATGCCACGGCTTTGACCC  
AGGCTGGGGGTGCACGGATCTCACTGGGGTTAGTTGGTCCGAGGGGAAAGCCCCATGGGT  
CCACCAGGATGAGGTGTTAACTCTATCAGGGTACTTGATTGAGTAAGAAGTGGCCAGGAAT  
CCTCCCAAACGTGTGCCCCAGGAGGATCATGCTGGGGATCCCCATGGTCTCCCGCCATGTCT  
CTATCGATGTCACAAACTCATCCTCAGCCCCCTCCGGTCCCTTGGGAATGCTTGGCCTTGA  
GCTTCGCCCGAAGCCAAGCAGATCGAAGGTGTGCAGTGTGCGGCGGGCACTCAGTGAGTC  
CATGTTGAGGATCCAGAGACCCACGCCGCCCCCAAACCATGCACCATCACCAAGGGGGTG  
CGGTGCTTTTGTCTCGGGGCTCACAGTCACCGTCCAGATCTTATTCTGGTTTGGGAGGGATA  
CATATCTGGCCAGGAACCTTATTCTGGAGACACTGGAGGATCCTGGCTTCCACATTCTTCAGC  
TGAGACATGGAAGTGGGGCGCCACGTGGGCAGCCAGCTACTCAGCCAGCCTTGAGACTGC  
TGCTCCAGATCATCGGCCATAGTAAACAAGCCTTGCCAGGTCTGGCGAGCCCGCCAGCC  
CCCTTCTGTCGTCTTCTCGCAGCCGTAGTCGACGCGGCCGCGAANN

&gt;159

NNCACGCGTCCGGCTAATGAATCTTGGGGCCGGTGTGCGGGCCGGGGCGGCTTGAT  
CGGCAACTAGGAAACCCAGGCGCAGAGGCCAGGAGCGAGGGCAGCGAGGATCAGAGGC  
CAGGCCCTTCCGGCTGCCGGCGCTCCTCGGAGGTGAGGGCAGATGAGGAACATGACTCTC  
CCCCTTCGGAGGAGGAAGGAAGTCCCGCTGCCACCTTATCTCTGCTCCTCTGCCTCCTCCC  
TGTTCCAGAGCTTTTTCTCTAGAGAAAGATTTGAAGGCGGCTTTGTGCTGACGGCCACCC  
ACCATCATCTAAAGAAGATAAACTTGGCAAATGACATGCAGGTTCTTCAAGGCAGAATAATTG  
CAGAAAATCTTCAAAGGACCCTATCTGCAGATGTTCTGAATACCTCTGAGAAATAGAGATTGAT  
TATCAACCAGGATACCTAATTCAAGAATCCAGAAATCAGGAGACGGAGACATTTTGTGAG  
TTTTGCAACATTGGACCAAATACAATGAAGTATTCTTGCTGTGCTCTGGTTTGGCTGTCTG  
GGCACAGAATTGCTGGGAAGCCTCTGTTGCACTGTGAGATCCCCGAGGTTTCAAGGACGGA  
TACAGCAGGAACGAAAAACATCCGACCCAACATTATTCTTGTGCTTACCGATGATCAAGAT  
GTGGAGCTGGGGTCCCTGCAAGTCATGAACAAAACGAGAAAGATTATGGAACATGGGGGGG  
CCAGCTTCATCAATGCCTTTGTGACTACACCCATGTGCTGCCCGTCACGGTCTCCCATGCTC  
ACCGGGAAGTATGTGCACAATACAATGTCTACACCAACAACGAGAACTGCTCTTCCCCCTC

### Table 4

[illegible]

Table 4

AACTTGACCCCCGTGTCAAATTGACATCACACTCTGCATGTCTGCGTAATGAAGGTACGATG  
CAACTATAACCAGTGCAATATGACACTGACACTATATTAATTCAATAATACNN

>160

NNCACGCGTCCGGCTAATGAATCTTGGGGCCGGTGTGCGGGCCGGGGCGGCTTGAT  
CGGCAACTAGGAAACCCAGGCGCAGAGGCCAGGAGCGAGGGCAGCGAGGATCAGAGGC  
CAGGCCTTCCCGGCTGCCGGCGCTCCTCGGAGGTCAGGGCAGATGAGGAACATGACTCTC  
CCCCTTCGGAGGAGGAAGTCCCGCTGCCACCTTATCTCTGCTCCTCTGCCTCCTCCC  
TGTTCCAGAGCTTTTTCTCTAGAGAAGATTTGAAGGCGGCTTTTGTGCTGACGGCCACCC  
ACCATCATCTAAAGAAGATAAACTTGGCAAATGACATGCAGGTTCTTCAAGGCAGAATAATTG  
CAGAAAATCTTCAAAGGACCCTATCTGCAGATGTTCTGAATACCTCTGAGAATAGAGATTGAT  
TATTCAACCAGGATACCTAATTCAAGAACTCCAGAAATCAGGAGACGGAGACATTTTGTGAG  
TTTTGCAACATTGGACCAAATACAATGAAGTATTCTTGCTGTGCTCTGGTTTTGGCTGTCTG  
GGCAGAGAATTGCTGGGAAGCCTCTGTTGACTGTGAGATCCCCGAGGTTTCAAGGACGGA  
TACAGCAGGAACGAAAAACATCCGACCCAACATTATTCTTGCTTACCGATGATCAAGAT  
GTGGAGCTGGGGTCCCTGCAAGTCATGAACAAAACGAGAAAGATTATGGAACATGGGGGGG  
CCACCTTCATCAATGCCTTTGTGACTACACCTGTGCTGCCCGTCACGGTCCCTCCATGCTC  
ACCGGGAAGTATGTGCACAATCACAATGTCTACACCAACAACGAGAAGTGTCTTCCCCCTC  
GTGGCAGGCCATGCATGAGCCTCGGACTTTTGTGCTGTATATCTTAACAACACTGGCTACAGAA  
CAGCCTTTTTTGGAAAATACCTCAATGAATATAATGGCAGCTACATCCCCCTGGGTGGCGA  
GAATGGCTTGGATTAAATCAAGAATTCTCGCTTCTATAATTACACTGTTTGTGCAATGGCATC  
AAAGAAAAGCATGGATTGATTATGCAAAGGACTACTTCACAGACTTAATCACTAACGAGAGC  
ATTAATTACTTCAAAATGTCTAAGAGAATGTATCCCCATAGGCCGTTATGATGGTGATCAGC  
CACGCTGCGCCCCACGGCCCCGAGGACTCAGCCCCACAGTTTTCTAACTGTACCCCAATG  
CTTCCCAACACATAACTCCTAGTTATAACTATGCACCAAATATGGATAAACACTGGATTATGC  
AGTACACAGGACCAATGCTGCCATCCACATGGAATTTACAAACATTCTACAGCGCAAAAGG  
CTCCAGACTTTGATGTGAGTGGATGATTCTGTGGAGAGGCTGTATAACATGCTCGTGGAGAC  
GGGGGAGCTGGAGAATACTTACATCATTACACCGCCGACCATGGTTACCATTTGGGCAGT  
TTGGACTGGTCAAGGGGAAATCCATGCCATATGACTTTGATATTCTGTGCTTTTTTTATTCT  
GTGGTCCAAGTGTAGAACCAGGATCAATAGTCCCACAGATCGTTCTCAACATTGACTTGGCC  
CCCACGATCCTGGATATTGCTGGGCTCGACACACCTCCTGATGTGGACGGCAAGTCTGTCC  
TCAAACCTTCTGGACCCAGAAAAGCCAGGTAACAGGTTTGAACAAACAAGAAGGCCAAAAT  
TGGCGTGATACATTCTAGTGGAAGAGGCCAAATTTCTACGTAAGAAGGAAGAAATCCAGCAA  
GAATATCCAACAGTCAAATCACTTGCCCAAATATGAACGGGTCAAAGAAGTATGCCAGCAGG  
CCAGGTACCAGACAGCCTGTGAACAACCGGGGCAGAAGTGGCAATGCATTGAGGATACATC  
TGGCAAGCTTCAATTCACAAGTGTAAAGGACCCAGTGACCTGCTCACAGTCCGGCAGAGC  
ACGCGGAACCTCTACGCTCGCGGCTTCCATGACAAAGACAAAGAGTGCAGTTGTAGGGAGT  
CTGTTTACCGTGCCAGCAGAAGCCAAAGAGTCAACGGCAATTCTTGAGAAACCGAGG  
GACTCCAAAGTACAAGCCCAGATTTGTCCATACTCGGCAGACACGTTTCTTGTCCGTGCAAT  
TTGAAGGTGAAATATATGACATAAATCTGGAAGAAGAAGAAGATTGCAAGTGTGCAACCA  
AGAAACATTGCTAAGCGTCATGATGAAGGCCACAAGGGGCCAAGAGATCTCCAGGCTTCCA  
GTGGTGGCAACAGGGGCAGGATGCTGGCAGATAGCAGCAACGCCGTGGGCCACCTACCA  
CTGTCCGAGTGACACACAAGTGTTTTATTCTTCCCAATGACTCTATCCATTGTGAGAGAGAAC  
TGTACCAATCGGCCAGAGCGTGGAAGGACCATAAGGCATACATTGACAAAGAGATTGAAGC  
TCTGCAAGATAAAATTAAGAATTTAAGAGAAGTGAGAGGACATCTGAAGAGAAGGAAGCCTG  
AGGAATGTAGCTGCAGTAAACAAAGCTATTACAATAAAGAGAAAGGTGTAAAAAAGCAAGAG  
AAATTAAGAGCCATCTTCAACCCATTCAAGGAGGCTGCTCAGGAAGTAGATAGCAAACCTGCA  
ACTTTTCAAGGAGAACAACCGTAGGAGGAAGAAGGAGAGGAAGGAGAAGAGACGGCAGAG  
GAAGGGGGAAGAGTGCAGCCTGCCTGGCCTCACTTGCTTCACGCATGACAAACCACTGG  
CAGACAGCCCCGTTCTGGAACCTGGGATCTTTCTGTGCTTGACGAGTTCTAACAATAACAC  
CTACTGGTGTGTCGTACAGTTAATGAGACGCATAATTTTCTTTTCTGTGAGTTTGTACTGG  
CTTTTTGGAGTATTTGATATGAATACAGATCCTTATCAGCTCACAAATACAGTGCACACGGT  
AGAACGAGGCATTTTGAATCAGCTACACGTACAACCTAATGGAGCTCAGAAGCTGTCAAGGAT  
ATAAGCAGTGCAACCCAAGACCTAAGAACTTGTGATGTTGGAAATAAAGATGGAGGAAGCTAT  
GACCTACACAGAGGACAGTTATGGGATGGATGGGAAGGTTAATCAGCCCCGTCTCACTGCA  
GACATCAACTGGCAAGGCCTAGAGGAGCTACACAGTGTGAATGAAAACATCTATGAGTACAG  
ACAAAACCTACAGACTTAGTCTGGTGGACTGGACTAATTACTTGAAGGATTTAGATAGAGTATT

Table 4

TGCACTGCTGAAGAGTCACTATGAGCAAAATAAAACAAATAAGACTCAAAGTCTCAAAGTG  
ACGGGTTCTTGGTTGTCTCTGCTGAGCACGCTGTGTCAATGGAGATGGCCTCTGCTGACTC  
AGATGAAGACCCAAGGCATAAGGTTGGGAAAACACCTCATTTGACCTTGCCAGCTGACCTTC  
AAACCCTGCATTTGAACCGACCAACATTAAGTCCAGAGAGTAAACTTGAATGGAATAACGAC  
ATCCAGAAGTTAATCATTTGAATTCTGAACACTGGAGAAAAACCGAAAAATGGACGGGGCA  
TGAAGAGACTAATCATCTGGAAACCGATTTCACTGGCGATGGCATGACAGAGCTAGAGCTC  
GGGCCAGCCCCAGGCTGCAGCCCATTCGAGGCACCCGAAAGAACTTCCCCAGTATGGT  
GGTCCTGGAAAGGACATTTTGAAGATCAACTATATCTTCTGTGCATTCCGATGGAATTTCA  
GTTTCATCAGATGTTCCACCATGGCCACCGCAGAACACCGAAGTAATCCAGCATAGCGGGGA  
AGATGTTGACCAAGGTGGAGAAGAATCACGAAAAGGAGAAGTCACAGCACCTAGAAGGCAG  
CGCCTCCTCTTCACTCTCCTCTGATTAGATGAACTGTTACCTTACCCTAAACACAGTATTTT  
TTTTAACTTTTTTATTTGTAACTAATAAAGGTAATCACAGCCACCAACATTCCAAGCTACCC  
TGGGTACCTTTGTGCAGTAGAAGCTAGTGAGCATGTGAGCAAGCGGTGTGCACACGGAGAC  
TCATCGTTATAATTTACTATCTGCCAAGAGTAGAAAGAAAGGCTGGGGATATTTGGGTTGGC  
TTGGTTTTGATTTTTGCTTGTGTTGTTTTGTACTAAAACAGTATTATCTTTTGAATATCGT  
AGGGACATAAGTATATACATGTTATCCAATCAAGATGGCTATAATGGGCTTTCTCAGAGATAA  
AAGTTGACCCCGTGTCAAAATTGACATCACACTGTCATGTCTGCGTAATGAAGGTACGATG  
CAACTATAACCAGTGCAATATGACACTGACACTATATTAATTCAATAATACNN  
>161

NN  
GGGGGGGGGGGGGGTGGTGTCTGGCAGTCTTTCAGGGTGCAATTTTGTATATACACTGTAT  
GTATATATTTCTTTAGATTTGGCTGTAGTGGACTGGCCATGGTTCAAGTGGGACTATAGCAG  
TACATGGGTGAGGACAGTCATTTGGCTATGTACACATTTCATAGTCGGTCCATGGCTTCCA  
ACTAGTAGCGCTATTTCCGAAGGTCTAATACACAACTGAACCATCTGATGCACTGGCTCCA  
ACTTTGTCTCCTGCTGCATTCCAGCAAACTTCAAATATTCACCTGTTCCCCTATAGCTGTGA  
ACTAGAGCACCTGTCTGCGTGTTCAGATGTGTACACATTTGTCAAAGAACCCTTGCCAG  
ATACCTGCCATCAGGACTGAAAGCTACACTGTACACAGGCTCTTGGTGTGTTGTCAAGGTAT  
GGATGCATATCCCTCGGTCTACATCCCATAACCTAACAGTAGAATCAAAGGATGCCATTGCT  
AACATAAGGTTGGCATTTGGATTATTAGTCCCTGGTCTGTTGGACTCCATTTGATAGTATAA  
ATTTCTTTATTATGTGCTTGCAAATCATGGACACAATTGTCTTGTTCATACTCCATATCTTTAA  
AGTCATGTCTGCAAGACAGGAGGCCAAGAGATTGCCAGTTGGGTCCCATTGATAGCATTTA  
CTTCATTCGTATGCTCCTTGAATGTTTTAATAGGTCTGTCTTGTCTAATTTACAGACATGAAT  
GCACATATCTGTACTACAAGAAGCAAAGGTGTTGTTGCTCTGCCAATCAACATCCAATGCTG  
GTGCTGAATGAAAAGGAACTGTTGCTTGGCTTACCAGTATGTGCGTCCCAATAATTGTA  
GTCTTGTCTACTCCAGCACTTAGGATGAAATTTCTTTCTTATTCCATTTTAATGCAATATAG  
GGCCTTTATGCTGCCCTAAGGTGCTAGCAAGGTTACCATCTTATGTCATATTCTGGCAAAC  
CCATCATAGGAACCAAGTTGCTAGAAGTGTACCTTCACTATTCCAATCTAGAGATGTGACATCC  
TTGTTGCTTGGAACATCTTGCCCTCCTTCTCGTATACAATGTCTAAGTACTAACTGTGTAGAG  
CCACTGGTGTCTGTTCTCACTAAGATTCCATATCTTGTCTGTTGAGTCTCCAGACCCTGATGCT  
AGGAGATCACTAACAGGGTTCAGGCACAGATAAAACTTCAGATTCATGGCCCCGCAACAC  
AACAGTCTTTATTAGGAGGGATTCAACATCCCCATCCACTTCCATCATATCAGTATGATTATT  
TGCTATAGTATGTGCTCCATTCTCCTCCCATTGCTGTGTTTTCTCCATTTTTGCAGATCCT  
TGTTGGCTGGCTGCAGCTGCGGCAGCTGCAGCAGCTGCTGCCTGTTGCTGTGCAAGCTTAT  
CTCTATAAGCTTGTGCTTGTGTTGTACTACATCAGGCATTACGGCATCTATCAGGGACAGAG  
ACTCTATTGGTCGACCATCAAACAAGGTACCATCCTCATTAACTAACTTCTGCTTCTACAT  
ACTGTAGACCTTTCTGGATGATAGAAATCAATGCAGCGGGTGGGACGAGGGGCACCATTTATA  
TTGGACTGACTGATATGGCTTTCTATACCAAGGTAAATGCTGAATGAGAAAATCCTGACTCT  
TGCAAGTATCTATATACCAAGAAGTTGACCTCATCACTGCTTATACTCATCTTTATTCCACTT  
AAACCATGAGGTCAACACAGGATATAACCCATTGGCAGTGCATTGATGTGGGGATGTGCA  
ACTGAATATCCGGTCACCGCCAATCACAAGTTGCTGTTGTTGATGCTGGAAACGGTGGCCTC  
CAACGCCGCTCCCCCTCCCGGAATGGAGGCACAAGGAAATCCCCCGGACGCGGGGTC  
GATCCN  
>162

NNCACGCGTCCGGCTAATGAATCTTGGGGCCGGTGTGCGGGCCGGGGCGGCTTGAT  
CGGCAACTAGGAAACCCAGGCGCAGAGGCCAGGAGCGAGGGCAGCGAGGATCAGAGGC  
CAGGCCCTCCCGGCTGCCGGCGCTCCTCGAGGTCAGGGCAGATGAGGAACATGACTCTC

Table 4

CCCCTTCGGAGGAGGAAGGAAGTCCCGCTGCCACCTTATCTCTGCTCCTCTGCCTCCTCCC  
TGTTCCAGAGCTTTTTCTCTAGAGAAGATTTGAAGGCGGCTTTTGCTGACGGCCACCC  
ACCATCATCTAAAGAAGATAAACTTGGCAAATGACATGCAGGTTCTTCAAGGCAGAATAATTG  
CAGAAAATCTTCAAAGGACCCTATCTGCAGATGTTCTGAATACCTCTGAGAATAGAGATTGAT  
TATTC AACAGGATACCTAATTCAAGAACTCCAGAAATCAGGAGACGGAGACATTTTGTCAG  
TTTTGCAACATTGGACCAAATACAATGAAGTATTCTTGCTGTGCTCTGGTTTTGGCTGTCTG  
GGCACAGAATTGCTGGGAAGCCTCTGTTGCACTGTGAGATCCCCGAGGTTTCAAGGACGGGA  
TACAGCAGGAACGAAAAACATCCGACCCAACATTATTCTTGCTGCTTACCGATGATCAAGAT  
GTGGAGCTGGGGTCCCTGCAAGTCATGAACAAAACGAGAAAGATTATGGAACATGGGGGG  
CCACCTTCATCAATGCCTTTGTGACTACACCCATGTGCTGCCCGTCACGGTCCTCCATGCTC  
ACCGGGAAGTATGTGCACAATCACAATGTCTACACCAACAACGAGAAGTCTCTTCCCCCTC  
GTGGCAGGCCATGCATGAGCCTCGGACTTTTTGCTGTATATCTTAACAACACTGGCTACAGAA  
CAGCCTTTTTTGGAAAATACCTCAATGAATATAATGGCAGCTACATCCCCCTGGGTGGCGA  
GAATGGCTTGATTAAATCAAGAATTCTCGCTTCTATAATTACACTGTTTGTGCAATGGCATC  
AAAGAAAAGCATGGATTTGATTATGCAAAGGACTACTTCACAGACTTAATCACTAACGAGAGC  
ATTAATTACTTCAAAATGTCTAAGAGAATGTATCCCCATAGGCCCGTTATGATGGTGATCAGC  
CACGCTGCGCCCCACGGCCCCGAGGACTCAGCCCCACAGTTTTCTAAACTGTACCCCAATG  
CTTCCCAACACATAACTCCTAGTTATAACTATGCACCAAATATGGATAAACACTGGATTATGC  
AGTACACAGGACCAATGCTGCCATCCACATGGAAATTTACAAACATTCTACAGCGCAAAAGG  
CTCCAGACTTTGATGTGAGTGATGATTCTGTGGAGAGGCTGTATAACATGCTCGTGGAGAC  
GGGGGAGCTGGAGAATACTTACATCATTACACCGCCGACCATGGTTACCATATTGGGCAGT  
TTGGACTGGTCAAGGGGAAATCCATGCCATATGACTTTGATATTCTGTGCTTTTTTTATTC  
GTGGTCCAAGTGTAGAACCAGGATCAATAGTCCACAGATCGTTCTCAACATTGACTTGGCC  
CCCACGATCTGGATATTGCTGGGCTCGACACACCTCCTGATGTGGACGGCAAGTCTGCTC  
TCAAACCTTCTGACCCAGAAAAGCCAGGTAAACAGGTTTGAACAAACAAGAAGGCCAAAATT  
TGGCGTGATACATTCTAGTGGAAGAGGCAAAATTTCTACGTAAGAAGGAAGAATCCAGCAA  
GAATATCCAACAGTCAAATCACTTGCCCAAATATGAACGGGTCAAAGAAGTATGCCAGCAGG  
CCAGGTACCAGACAGCCTGTGAACAACCGGGGCGAGAAGTGGCAATGCATTGAGGATACATC  
TGGAAGCTTGAATTCACAAGTGTAAAGGACCCAGTGACCTGCTCAGAGTCCGGCAGAGC  
ACGCGGAACCTCTACGCTCGCGCTTCCATGACAAAGACAAAGAGTGCAGTTGTAGGGAGT  
CTGGTTACCGTGCCAGCAGAAGCCAAAGAAAGAGTCAACGGCAATTCTTGAGAAACCAGGG  
GACTCCAAAGTACAAGCCCAGATTTGTCCATACTCGGCAGACACGTTCTTGTCCGTGCAAT  
TTGAAGGTGAAATATATGACATAAATCTGGAAGAAGAAGAAGATTGCAAGTGTGCAACCA  
AGAACATTGCTAAGCGTCATGATGAAGGCCACAAGGGGCCAAGAGATCTCCAGGCTTCCA  
GTGGTGGGCAACGGGGCAGGATGCTGGCAGATAGCAGCAACGCCGTGGGCCACCTACCA  
CTGTCCGAGTGACACACAAGTGTATTTCTTCCCAATGACTCTATCCATTGTGAGAGAGAAC  
TGTACCAATCGGCCAGAGCGTGGAAGGACCATAAGGCATACATTGACAAAGAGATTGAAGC  
TCTGCAAGATAAAATTAAGAATTTAAGAGAAGTGAAGAGGACATCTGAAGAGAAGGAAGCCTG  
AGGAATGTAGCTGCAGTAAACAAAGCTATTACAATAAAGAGAAAGGTGTAAGAAAGCAAGAG  
AAATTAAGAGGCCATCTTCAACCATTCAGGAGGCTGCTCAGGAAGTAGATAGCAAACTGCA  
ACTTTTCAAGGAGAACAACCGTAGGAGGAAGAAGGAGAGGAAGGAGAAGAGACGGCAGAG  
GAAGGGGGAAGAGTGCAGCCTGCCTGGCCTCACTTGCTTACGCATGACAACAACCACTGG  
CAGACAGCCCCGTTCTGGAACCTGGGATCTTTCTGTGCTTGACAGAGTTCTAACATAACAC  
CTACTGGTGTGCGTACAGTTAATGAGACGCATAATTTTCTTTTCTGTGAGTTTGCTACTGG  
CTTTTTGGAGTATTTGATATGAATACAGATCCTTATCAGCTCACAAATACAGTGACACGGT  
AGAACGAGGCATTTTGAATCAGCTACACGTACAATAATGGAGCTCAGAAGCTGTCAAGGAT  
ATAAGCAGTGCAACCCAAGACCTAAGAATCTTGATGTTGGAAATAAAGATGGAGGAAGCTAT  
GACCTACACAGAGGACAGTTATGGGATGGATGGGAAGGTTAATCAGCCCCGTCTCACTGCA  
GACATCAACTGGCAAGGCCTAGAGGAGCTACACAGTGTGAATGAAAACATCTATGAGTACAG  
ACAAAACCTACAGCTTAGTCTGGTGGACTGGACTAATTAATTTGAAGGATTTAGATGAGTATT  
TGCAGTGTGAAGAGTCACTATGAGCAAAATAAAACAAATAAGACTCAAAGTCTCAAAGTG  
ACGGGTTCTTGGTTGTCTGTGCTGAGCACGCTGTGTCAATGGAGATGGCCTCTGCTGAGTC  
AGATGAAGACCCAAGGCATAAGGTTGGGAAAACACCTCATTTGACCTTGCCAGCTGACCTTC  
AAACCTGCATTGAACCGACCAACATTAAGTCCAGAGAGTAACTTGAATGGAATAACGAC  
ATTCCAGAAGTTAATCATTGAATCTGAACACTGGAGAAAAACCGAAAAATGGACGGGGCA  
TGAAGAGACTAATCATCTGGAACCGATTTCAAGTGGCGATGGCATGACAGAGCTAGAGCTC

### Table 4

>163  
>164  
>165

>166  
>167  
>168  
>169

NNNNNNNGGACCCGGCTGCGGTGGCTGCGGGACTGACGCGCCACCGGAGCAGGC  
AGCTGGGGGTGGGGGGGCGGCCCTGGGATAGGGGCTGTGGCAGTACGCGGGGACCCGG  
CTGCGGTGGCTGCGGGACTGACGAGAACTACTAAAGTTCCTGGGGAAGCAAAGTAGAAT  
TCATAAGCAAAATGGATGGAGAGGAGAAAAACCTATGGTGGCTGTGAAGGACCTGATGCC  
ATGTATGTCAAATTGATATCATCTGATGGCCATGAATTTATTGTAAAAAGAGAACATGCATTAA  
CATCAGGCACGATAAAAGCCATGTTGAGTGGCCCAGGTCAGTTTGCTGAGAACGAAACCAA  
TGAGGTCAATTTTAGAGAGATACCTTCACATGTGCTATCGAAAGTATGCATGTATTTTACGTA  
CAAGGTTGCTACACTAACAGCTCCACCGAGATTCTGAATTCCTCAATTCACCTGAAATTTG  
CACTGGAACCTGCTGATGGCTGCGAACTTCTAGATTGTTAAATAAAATAAATATAAACT  
GTTAACTCTTTGATGATTTAATACCTGTAGTTTCATTTGGGGATTTCAAAGACTATTTTTGCCA  
CATTTTGGGAAATATTGAGCACTTATTTCTTACGGGTATGAATATCCCCCTAATCTTGAAAATT  
CTGAAGGTCCAAAATGCTCCAATGAGCATTTCTTTGAGGCACGAGGTGAGGTCTCAAAA  
AAGCTTTGAATTTATGAGCATTTGCGATTTTAGTATTTCCAGATTAAAGGCATCTGCAACCTG  
AATTTAGGGAACACTATTTCATCAGATCAGTGGGCATGCTTACTATGTGCCAGAA  
AATGTGCAGGGCACTGAAATAGAGTGAAAAAGACACTGGCTCACCCATGAAAATGTATAATG



Table 4

CAGTTGAGGGGAGATAGGCAATCAAATATACAATTATAATACAGAATACATTCAATAATAGTG  
GAAGTACCTGCCCCGGGCGGCN

>170

ATATATTATCTTATAGAAATAACTAAGGGAAGTTAGTGCCTTGTGACCACATCTATGT  
GACTTTTAGGCAGTAAGAACTATAAGGAAAGGAGCTAACAGTCATGCTGTAAGTAGCTACA  
GGGAATTGGCTTAAAGGGCAAGCTGGTTAGTACTTAGCTGTGTTTTATTCAAAGTCTACATT  
TTATGTAGTGGTTAATGTTTGCTGTTTCATTAGGATGGTTTTACAGTTACCATACAAATGTAGA  
AGCAACAGGTCCAAAAAGTAGGGCATGATTTTCTCCATGTAATCCAGGGAGAAAAACAAGCCA  
TGACCATTGTTGGTTGGGAGACTGAAGGTGATTGAAGGTTACCCATCATCCTCACCAACTTT  
TGGGCCATAATTACCCAACCCCTTTGGTGGAGCCTGAAAAAATCTGGGCAGAATGTAGGAC  
TTCTTTATTTTGTAAAGGGGTAACACAGAGTGCCCTTATGAAGGAGTTGGAGATCCTGCAA  
GGAAGAGAAGGAGTGAAGGAGAGATCAAGAGAGAGAAAAAATGAGGAACATTTTCATTGAC  
CCAACATCCTTTAGGAGCATAAATGTTGACACTAAGTTATCCCTTTTGTGCTAAAATGGACAG  
TATTGGCAAAATGATACCACAACCTTCTTATTCTCTGGCTCTATATTGCTTTGAAACACTTAAA  
CATCAAATGGAGTTAAATACATATTTGAAATTTAGGTTAGGAAATATTGGTGAGGAGGCCTCA  
AAAAGGGGGAAACATCTTTTGTCTGGGAGGATATTTTCCATTTTGTGGATTCCCTGATCTTT  
TTCTACCACCCTGAGGGGTGTTGGGGGAATTATCATTTTGTACATTTTCAGAGGTCATCCA  
GGATTTTGAACCTTTACATTTCTTACGGTTAAGCAAGATGTACAGCTCAGTCAAAGACACTA  
AATTCCTTCTTAGAAAAAATAGTGCTAAGGAGGNNN

>171

NNNCACAGTGGGCACTTCTGCCATGAGCAGAGAACTGATGCGACATGTTTTGCTGC  
TTGGTAGCACTTTAAAAAATTTTTGATTAATGAAGAAAGTAAAACCATAAACATTTGCCAAAA  
ATTCATGCCCCAGTATTAGCAATGAATTAGTTGCATTGGTTTGAGAAAGGCACATATTGGAG  
GGAAATCTGGTGAACCTTAAATATTTGAAATTTACCTTTAATGCAATGCATATCTGTTTATTC  
TGGGAAATGTTTTAATGCCAGGGCCTGCTGAGTTGCTTCTTCTGTGGAGATTTTTTTTAAAT  
CTCCTGAGTTGTATAAAAGTTGTACCTGCCCGGGCGGCCGCTCGACGGCCGAGGTACAGTC  
ATAATCTCTTTTCAAGCCGGCCTAGCCCCTTGCCGGAACCTCGGCTCCCCCACAACGAACT  
ACTGCTAAGCCAACCTGGACTACACTTCCAGACTGCTTGGAGCCTCTCTCTCCGCAGAACCT  
CGTCTTCCGCGAGCTTTTCTGGAGGTTCTAGGAGGATGCCCTCAATGCCACGACGCCA  
TTTCTACTACGACTTCCATCATGCTCCGCGCCGCTCCGGGCGGNNNN

>172

NCGGGAAGTTCCAACCTGTGGCAGAAATGAAGATGGAACCTTCTCAAGAATAAACAGTT  
TTGGCCGGGTGTGGTGGCTCACGCCTGAAATCCCAGCACTTTGGAAGGCCAAGGTGGGCT  
GATCAGATGAGGCCAGGAGTTGAGACACGCCTGGCCAATATGGCAAAACCCATCTCTAC  
TAAAAATATAAAAAATGAGACGGGCATGGTGGCACACACCTGTAATCCTAGCTACTCAGGAGG  
CTGAGGCACGAGAGTGCCTTGAACCCAAAAGGCAGAGTTTGCAGTGAGCCAAGATCATGCC  
CCTGCACTCCAGCCTGGGTGACAGAGTGAGACTCTGTCTCAAAAATAAATAAATAGTTTCTA  
GCACTCATCCCCTAGATATCCCCCAAGTGTCTCTTCCCCTTTGGTCAAGGTTATAACTGG  
GATAATGATTATGACAGACTGGCTGGGTGTCAGAGGTACAGATTAAAGGTTGATGGACTCAG  
GGTAAGGATAGCTACAGCTGTGTGGGGCTGAAGGTCTGTGGCACTGAGCTACTGGGGAAG  
GAGGGCTCTGTTTTATTGTGACACACTGAGTTAATAAAGCACTTACTGAGGGAGCCAGAGC  
CCAAACTCTAAATGTGCTGTAGAAAAAGGGCCAAGTCATTGACTGCACCACTCCTTCAGCCA  
GAGGTAGAAAGGATTTACTCTTCAGCCATCTGGTAGAGCCCCAAGAACAAGTTACATGTGGA  
CAAAGGGAGGGAGAGGTATCATGGTGATTAATAAATTCAAACAAAGCTGAATGATAAGACCC  
CAGGATGGAATACAGTCTGAGAAAGGCCTGGGCAAGGAGGCAGAGGGACTGAAGGAAG  
CAGGTCAAGGAAGATACACCCATGGTAGCCTAGGAAATTGGCAGTAGTGTTGGTGGGTGGG  
GAAAAGGAGGTTTTCTCGTTGGCCAACATGGTGTACCACTTGCCTGGGCATAGGTGAACA  
CCCAGGAACGATCATCAACACCAATGCAGCTATCCCGGGACATGTCCACATCTGCCACTCCT  
ATCCGGAACGTGCTGGGAGCGCTTCACTGTCACTTCCCAGTAGTGTCTGCCACTGGTGACCG  
CTGTGTCN

>173

CCACGCGTCCGATAGGTGAAAAAAGCACTGCCATTCACAAGTCAAGGAACCCAGGG  
CCAGCTGGAAGTGTGGAGCACACATGCTGTGGAGCACACATGCTGTGGAGATTGCAGTGTG  
TCTGAGGTTTGTGTAGTAGTGGAAGATTTTAGGTATGTAGAGCAAGTTGAAATGGATTGAG  
ACTGCATGGTGGCATAAATGAGAAATTGCCTGTAGCATCTAGTCTACTTGAAGGAAGTGGAG  
ACATAAGGAGAGACAAAAACAGGTTTGTGCCATAAAGTATTTTTTCAAAGACACCAAGATGTG

Table 4

GTAAATGAAAATTATTAGTTCACCTTCCCTGCTGCCATGAACTTTGCCTTAAGAAGGTGCTGG  
ATTCCAAGGTTTGTAAAGGCATCTCGGTAAAGACTGCTTTTTGAATGCATATGATTTTGCATC  
AGCTAGACTGAGTTGATTCTGACCAGACTTGATGTTTTAAGTCGGAACCGATAAAATTTTAAA  
AAGGAGAAAAAATAATTTGACCTAGTAGTATAAACATGAGGCTTTAATGGTACTTTGCTATG  
AAAAGAAAACACTGTATTCCTTATGCAAAACACATGTATCTTTCATTATTTATAAGTGGGCCTC  
TCTTAGGCTCAGTTACTCAaTCAIACGTAGTATtttttaAAATAAAtTATATc

&gt;174

&gt;175

AGGGAGTCCGCCCACGCGTCCGCCGGGTTTTAGTTCCTCGGGGAGCCCCCTGGTGC  
CCCGGATACGGCTGATTTGTCGTGTGGGACCTGTTCTGGCTGCTCCAGCCCCAGGAAGGAC  
CCAGGACACCCCGGAAGCCCGGAAATGGACTCAGTGGCCTTTGAGGATGTGGCTGTGAACCTC  
ACCCAGGAGGAGTGGGCTTTGCTGAGTCCTTCCCAGAAGAATCTCTACAGAGATGTGACGC  
TGGAACCTTTCAGGAACCTGGCCTCGGAATCCAATGGAAAGACCAGGACATTGAGAATCTG  
TACCAAAACCTGGGGATTAAGCTAAGAAGTCTGGTGGAGAGACTCTGTGGACGTAAGAAG  
GGAATGAACACAGAGAACTTTGAGCCAGATTCTGATTGTCACCTGAACAAGAAAAGTCAA  
ACTGGAGTGAACCATGCAAATGCAGCGTGTGTGGGAAAGTCTTCCTCCGTCATTCATTCTC  
GGACAGGCACATGAGAGCTCATGCTGGACACAAACGATCTGAGTGTGGTGGGGAATGGAG  
AGAGACGCCCCGTAAACAGAAACAACATGGGAAAGCCTCCATTTCCCCCAGTAGTGGTGCA  
CGCGCACAGTAACACCAACTCGAAAGAGACCTTATGAATGCAATGCTGTGCGGGAAAGCC  
TTTAATTCTCCCCATTAATCTCACATCCATCAAAGGATCTCACACTGGAAAGAGGTCTATAA  
TGTAGGAATGTGAGAGCTCCAGTTTTCAGGTTCTTCGAGACGGGAACTGCTTCTGGGAAAA  
GGTTGATGTAGTCCGGGGAAACCTTGATTCCCGGTTTTTCATTCTAGACTCCGGAAAAACCTC  
ATGTACAGGGAAGCTTTCGAGACGGCAAAATCCCN

&gt;176

tgtgatgcccacaagaatagggaatgaactagagcacaacacattttcaacagtcctcagtagtaagtcattcgttgaa  
aaacaggcaagctgtacattcctcaatggaggaagtttggagttgacgtcctattctggtggtCAGCAAGGTGTtggatGG  
CATACAGTGTGCaacAGGGGTGGTACAGTTGGATTtGCATCACCGTTGCATTTACTTGTGATG  
CATCAGAGACACaacCTGTTGAAACATGAGAAAGCATTTCGGCACCCCTCAAATGTACTGGGAA  
TGCCAGCAGTTTCCAAAGCCTGTTTAATAATTTCACTACCTTCTTGACTGACACTGGTATTAA  
AGTTAGTCACACCAGATCGAGGAAATGTATTTGGTAAAAATGCTGGCGAGCGATTTTCAGCA  
AGAAGCTGTAGAAATGATGGATCTTTAAACATGCTTCTGGATTGAAGGTAGATTGTTGTGG  
CTGCTGCAAATTTACTGCATTTGTGGAGAGAATCATGCTGGCAAGAAGAGAAGGCTGTCCAT  
TACTCTGTAGAAGTTCTtAGCAATttcgGCTCCATCCAGTGGTTlacAGTAAGATCGCTtggATAAG  
TGCCACCCAGTGATCTGGGATTAGTAAAGCCCTGTAACACCTGCTACAGATAAATTTCCC  
ATCTCTGATAATTGCAGGCCATTTAGCCCTTTTGTGTGCTTAGGTTTTCTTCTCCCTCCATTT  
GGGCCCCGCCACGGTCTTTTTTAACTTTTTCAGGTGCAGACTGTTGGGCATTGGTGCTACT  
GAAGTTATTTGCAACATTCATTGTGAAGGAAAAACTGCATTTTCACCATTACCCCCCTTTAG  
AAAGGAGGAATTAGTGTTCCTTCAATCTGTGAGGAATAATGATTTGTATTATTTCCAGTTG  
GGAAAAAACAGAATTAGTCCCACTATCTGTGGTGAAGGGAAGAGAGACATTGAACACTTTT  
CTGCAGGTAAAGGAAGGAAAGGATCTGAGCCACTGTCAATATTCAAAGGCAGAACTGTTTTG  
GTTAGATCTTCCATTTGTGCTGGCAAGGCAGTACTAGGTAAATTTTCCATTTGGGAACATAAC  
ATACCACCTTGTTCAATTTTATCCTGAGAAAGTTATATTTGGATTTATGACACTTTCCATTGAGG  
ACAACAATGGAGTTGACACACTTGCTAAATGAGCTGGAAAAATGGGTGGCGAGACATGCTG  
CAACTGGGCCGAACAAGCAGGATTCCCATTGGCTTTGGTCTGTGATGTAAAAAATGGATTG  
AGCTGTTACCCGGTGATGGCAAAAAATAAACAACTTTCCATTATTTGGTGTATTTAAGTTGT  
TAGCTTTCTGACCTTTTTTACTTTTTGCGCTGCATTTTAAATGCAGCATATTGGTCAGGGTGTG  
CTGTCTTCATGTGTTTCCCAATACTCTGTGAAGAATTATAGGTTTCGAGTACATCCCTCGACCT  
GGCAGCTGAATTTCTGAACTGGAGCTTTTGGAGGCACTGATGGAGTTCCTAATGAATTACTT  
AGGTCGGACTGCGGTGGAACAAATGCAATCACTTTCTAATGTCTTAAGAGGTAATTTATAAGA  
TTGGATGATGTTTTAACATTATCTCCACATTCAAATTTGGAAGTTGGTAAATTTGTTTTGAAATG  
CTGCCTGATTTTGCACAGAAAAGGTCATCAAGTTGTTCACTTGTCTTTCTAAGTTTGTGGGG  
TAAGGTCACCTATTTTGAAGAGTTTCTGAATTTACTAAAGAATTCTGAGTAACATGGGCATCAT  
TAAAGCAATCTTGTTCTTTCTCTCCTGGAAACCTGGATGACACAAATCATTACAAGTATCTTC  
AAGTGGCGTATGTAAGTCTGTGACCAAGTCTTACCACCTGCCTTCCACAGTTGAGTTTTCTT  
GCTTTCCAAAGTTATCCTCAATCCCCTGATTGAGAGACACCTTAATGGACACAGCTACTTCA  
TGGATTGAAGTAGAGGAGTAGTAGCAGGGTTTTCCAAACCATTTGACAATGGTCCATTAGCT

Table 4

TGCCTGAGCTCAGAGGCAGAAATCTGGTCTTGTGTTGGTCACAGCTGATTCTGCTTTGCTTTT  
ATCCCAAGCATCACTTCTATCTGCTAGTAAGCTGttctcaacgTTATTTTCTGAAGGAAGCATAGA  
TCTTTCTTTCTCAATATTCTCTGCTGTGTTCTGATTCACCTCAGAAGGCTGAATGGAATCTCCA  
GATGAATTAAGTTGGGCTTCAGGAGGCAGCACTTTTTCAGGAGGAGT

&gt;177

&gt;178

TGGCGGCCGCCCGGGCAGGTACCAAACCATTTTCACTAGTTTCAGGATAGGAATATT  
CATCAGATTGTCTCTGTAAAAGTGAATCACAAAAATTCACCTGTGTAGGTGTGGGACTGGA  
CAGCTGAGTGACAGGGCCCTGGGAAGAACAGAAACCACTTTTCCTCTTCTCTGAAATATC  
AGAAGTTAAAAATCTACTCTGAGTTATATGTGCATCAATTTTAGACATATTGCTGATTTTATTA  
TGAAAATGAAGTGCTAAAGACAAAGGATATTTCCATTCCCTCTGGACAGGCAGCCACAGACCA  
GCACTGCTTGACCCATGTGTATACACATGTGTGCTTTGTACCAGGCCAAGGCAGCTCTTCCC  
TCCCTTCAGTTCCATTTACACAACCTCATCTTCTTAAAGTTTCTTTGGATTTTCATGATCTGGCA  
ATGAAACTCATTTTCTTTATTCTTCAGTCTCTGTCTGCTGGTAAATTTCCACGTATACAGATTTTG  
CCAGTTTTTTCACTAGTTTATCTTTTGGGGCTTTATTATTTGTTTCTGACAACACTGCAGATG  
AGTCTGACTTCTGGCTAACTTTACAAAAAATGTACTGTAAATTCATGCTGAGATCTGGGCA  
GCGAGAGGTATGCANN

&gt;179

NNATGTGGTTACGACCCACTGTATTGAGGTGACGCGATCCATAGGCTGTGGTGTTT  
GTTTTGCTGATCCACACAAACGTTGGGGCACTGTCTATTTCATGTGTTCAAGCTGAAGGCTC  
GTTCTCGTTGTCAATTTACAGTGTTTTCTACGGGGTTACATTACAGGAATGTTGTAGCGAC  
GTTTAGCCCGTGGAGTATCAACGTCTTGAGACTCCGTGTGAGACTCCCTGGTTTGTTCACA  
ACAGTGTGTTTTAGATTCCGTACCTTTGATTAAGGAACACATCATGCCGTGAAGCCAATTTA  
TATTCTGCAATTCCGTAGTGCATGTAATGTATTCTGCCGTCTCGTAGTGTGAAGCCATGCTTG  
GCACATCCAGTTCTTTGATGTCTGGCTGCCTTCTGCCGGCCAACTGTCTTGTGGAATTCGTT  
GCTCCCAGAGATAGCTTGAAGTGCAGATCCCGCACAGCATTGCACTGAGCTGTCTGTTGTATC  
TGAGCCTGGACATGGCGGCCGAGGTACTCAGACTCACGCAAATTCACAGTCTGCGTGCACG  
GCTCTCCATTCTTCTTGGCTTTACAGGTTCCAGGTCAAGAGCTTCACCCATAATTAAGA  
CCTTCTGAGGATGATCGATAGATAAACACACCTCCTCTGAACCATCCTTGGGCTTCATGGGG  
TTGGCATTGAGGATCCCTACGACAGTCCCCTGCTCCGTCTTCAGAGCGCTTTGTGAATTC  
TCCAAATAAGAACAAAGGACACACATTGTGTGAGGTACGAAGATCATTTCAGTTTCCATATGCT  
GAAGGTTTTTCCACTATTCACACTCTGTGGCGTAACCTTCTCAATATAACCCCAAATGTCAC  
CCAATCTATTTCTTCCAGCTTCTCTCTGGCCATCTTTTCTTGATCTGAGACAGTGTATCAG  
TTTTCGGCCGGTCACTGTCTTCTGTTTCTCTGAGGATACTCGAGCCCGCCTCGAGC  
CGCAGACCAGGAGAAGGCTTCCACACAGATGGCGATTGAGTCTTTTCTTCACAGAACTTTC  
ACTCGGGGTCCACCACATATTTGACCTCTAGTTATCCCACTAGGTTTGTTCGAGAAATCGT  
CTGTAGGGGTTGGGAGGGTGCATTTGTATCCTTGAAGATGAGCTTTTGGGATCTGGAGGT  
GAAGCCTTTGGTGTTTCGAGCCACCCTCTTGTTTCTGGTAGCGCAGGGACATCAAGCTCCG  
CAGAAAAGCATGTTGACTCCTGAATCTCTGAACTCTCCTCTCCTTAAGAGGTGGCCGGGGA  
GACTTCTCAGGGGATTTTTGCAGACGGGCTGGGCTTGCTGTCTGTTAATTGTTGTTACTTTT  
AGCTGCTCTTGAAGGCCTTCATTTGCTCTTGCAAATTCCTTAATTCCTTGAACCTCTTCAT  
TCGTTTTCTCTCGCTGGGGGAGGAGCAGGGAGGACCCTATTTTCAGTTGACTGTGATGC  
GGGAACCTTCTTCTCATCTGTTAAGTCCTCCATATCTCCAAAGAGAGTGGCCAGATTTTCTT  
TTCGTCTCTTGTCTCTCCTGTTTCTCCATCATCAGCCTCTTCTGTATAAGATTCACCGTCGCC  
GTCGGCATCAAAGAGCTCATCAAATGCGTCGGGCTCGCCATTTTCCCGCGTCAAGAAGTTAT  
TTTCTTCTGAATTACAATCCAAGGCTGACTCATTTTCTTCCAGCAGTGCGGTGAGCAGAGACA  
GATTGTCTTCTCCTCATCCATGCTGTCAAGAGGACAGTTGTGACAGGAACTTCGAAGGAG  
GCTCAGATGCCAGATGAGCAATGTAGAATCTTGGCCGATGCCGGGACGCCTTCTTCGTTT  
ACAGCTGAACCCGCCAAAATCGGACNN

&gt;180

NNATGTGGTTACGACCCACTGTATTGAGGTGACGCGATCCATAGGCTGTGGTGTTT  
GTTTTGCTGATCCACACAAACGTTGGGGCACTGTCTATTTCATGTGTTCAAGCTGAAGGCTC  
GTTCTCGTTGTCAATTTACAGTGTTTTCTACGGGGTTACATTACAGGAATGTTGTAGCGAC  
GTTTAGCCCGTGGAGTATCAACGTCTTGAGACTCCGTGTGAGACTCCCTGGTTTGTTCACA  
ACAGTGTGTTTTAGATTCCGTACCTTTGATTAAGGAACACATCATGCCGTGAAGCCAATTTA  
TATTCTGCAATTCCGTAGTGCATGTAATGTATTCTGCCGTCTCGTAGTGTGAAGCCATGCTTG

Table 4

GCACATCCAGTTCTTTGATGTCTGGCTGCCCTTCTGCGGGCCAACTGTCTTGTGGAATTTCGTT  
GCTCCCAGAGATAGCTTGAAGTGCAGATCCCGCACAGCATTGCACTGAGCTGTCGTTGTATC  
TGAGCCTGGACATGGCGGCCGAGGTACTCACAGTCACGCAAATTCACAGTCTGCGTGCACG  
GCTCTCCATTCTTCTTGGCTTTACAGGTTCCAGGTCAAGAGCTTCACCCATAATTAAGA  
CCTTCTGAGGATGATCGATAGATAAACACACCTCCTCTGAACCATCCTTGGGCTTCATGGGG  
TTGGCATTGAGGATCCCTACGACAGTCCCCTGCTCCGTCTTCCAGAGCGCTTTGTGAACCTC  
TCCAAATAAGAACAAGGACACACATTGTGTACAGGTACGAAGATCATTAGTTTTCCATATGCT  
GAAGGTTTTTCCACTATTCACTCTGTGGCGTAACCTTCTTCAATATAACCCCAAATGTCAC  
CCAATCTATTTCTTCCAGCTTCTCTCTGGCCATCTTTTCTTGATCTGAGACAGTCTGATCAG  
TTTTCGGCCCGGTTCATGTGTCTTCGTTTCATATTCTCTGGAGGATACTCGAGCCCGCCTCGAGC  
CGCAGACCAGGAGAAGGCTTCCACACAGATGGCGATTGAGTCGTTTTCTCACAGAACTTTC  
ACTCGGGGTCCACCACATATTTGACCTCTAGTTATCCCACTAGGTTTTGTTCCGAGAAATCGT  
CTGTAGGGGTTGGGAGGGTGCACCTTGTATCCTTGAAGATGAGCTTTTGGGATCTGGAGGT  
GAAGCCTTTGGTGTTCGAGCCACCCTCTTGGTCTTGGTAGCGCAGGGACATCAAGCTCCG  
CAGAAAAGCATGTTGACTCCTGAATTCTCTGAACCTCCTCTCCTTAAGAGGTGGCCGGGGA  
GACTTCTCAGGGGATTTTTGCAGACGGGCTGGGCTTGTCTGTCTGTTAATTGTTGTTACTTTT  
AGCTGCTCTTGTAAAGGCCTTCATTTGCTCTTGCAAATTCCTTAATTCCTCTTGAACCTCTTCAT  
TCGTTTTCTCTCGCCTGGGGGCAGGAGCAGGGAGGACCCTATTTTCAGTTGACTGTGATGC  
GGGAACCTTCTTCTCATCTGTTAAGTCCTCCATATCTCAAAGAGAGTGGCCAGATTTTCCTT  
TTCGTCTCTTGTCTCTCCTGTTTCTCCATCATCAGCCTCTTCTGTATAAGATTACCGTCGCC  
GTCGGCATCAAAGAGCTCATCAAATGCGTCGGGCTCGCCATTTTCCCGGTCAAGAAGTTAT  
TTTCTTCTGAATTACAATCCAAGGCTGACTCATTTTCTTCCAGCAGTGCGGTGAGCAGAGACA  
GATTGTCTTCTCCTCATCCATGCTGTCAAGAGGACAGTTGTGACAGGAACTTCGAAGGAG  
GCTCAGATGCCAGATGAGCAATGTAGAATCTTGGCCGATGCCGGGACGCCTTCTTCGTTCT  
ACAGCTGAACCCGCCAAATCGGACNN

&gt;181

NNATGTGGTTACGACCCACTGTATTGAGGTGACGCGATCCATAGGCTGTGGTGT  
GTTTTCGCTGATCCACACAAACGTTGGGGCACTGTCTATTTCATGTGTTCAAGCTGAAGGCTC  
GTTCTCGGTTGTCAATTTACAGTGTCTTCTACGGGGTTACATTACAGGAATGTTGTAGCGAC  
GTTTAGCCCGTGGAGTATCAACGTCTTGAGACTCCGTGTGAGACTCCCTGGTTTGTCCACA  
ACAGTGTGTTTTAGATTCCGTACCTTTGATTAAGGAACACATCATGCCGTGAAGCCAATTTA  
TATTCTGCAATCCGTAGTGCATGTAATGTATTCTGCCGTCTCGTAGTGTGAAGCCATGCTTG  
GCACATCCAGTTCTTTGATGTCTGGCTGCCCTTCTGCGGGCCAACTGTCTTGTGGAATTTCGTT  
GCTCCCAGAGATAGCTTGAAGTGCAGATCCCGCACAGCATTGCACTGAGCTGTCGTTGTATC  
TGAGCCTGGACATGGCGGCCGAGGTACTCACAGTCACGCAAATTCACAGTCTGCGTGCACG  
GCTCTCCATTCTTCTTGGCTTTACAGGTTCCAGGTCAAGAGCTTCACCCATAATTAAGA  
CCTTCTGAGGATGATCGATAGATAAACACACCTCCTCTGAACCATCCTTGGGCTTCATGGGG  
TTGGCATTGAGGATCCCTACGACAGTCCCCTGCTCCGTCTTCCAGAGCGCTTTGTGAACCTC  
TCCAAATAAGAACAAGGACACACATTGTGTACAGGTACGAAGATCATTAGTTTTCCATATGCT  
GAAGGTTTTTCCACTATTCACTCTGTGGCGTAACCTTCTTCAATATAACCCCAAATGTCAC  
CCAATCTATTTCTTCCAGCTTCTCTCTGGCCATCTTTTCTTGATCTGAGACAGTCTGATCAG  
TTTTCGGCCCGGTTCATGTCTTTCGTTTCATATTCTCTGGAGGATACTCGAGCCCGCCTCGAGC  
CGCAGACCAGGAGAAGGCTTCCACACAGATGGCGATTGAGTCGTTTCTCACAGAACTTTC  
ACTCGGGGTCCACCACATATTTGACCTCTAGTTATCCCACTAGGTTTTGTTCCGAGAAATCGT  
CTGTAGGGGTTGGGAGGGTGCACCTTGTATCCTTGAAGATGAGCTTTTGGGATCTGGAGGT  
GAAGCCTTTGGTGTTCGAGCCACCCTCTTGGTCTTGGTAGCGCAGGGACATCAAGCTCCG  
CAGAAAAGCATGTTGACTCCTGAATTCTCTGAACCTCCTCTCCTTAAGAGGTGGCCGGGGA  
GACTTCTCAGGGGATTTTTGCAGACGGGCTGGGCTTGTCTGTCTGTTAATTGTTGTTACTTTT  
AGCTGCTCTTGTAAAGGCCTTCATTTGCTCTTGCAAATTCCTTAATTCCTCTTGAACCTCTTCAT  
TCGTTTTCTCTCGCCTGGGGGCAGGAGCAGGGAGGACCCTATTTTCAGTTGACTGTGATGC  
GGGAACCTTCTTCTCATCTGTTAAGTCCTCCATATCTCAAAGAGAGTGGCCAGATTTTCCTT  
TTCGTCTCTTGTCTCTCCTGTTTCTCCATCATCAGCCTCTTCTGTATAAGATTACCGTCCGC  
GTCGGCATCAAAGAGCTCATCAAATGCGTCGGGCTCGCCATTTTCCCGGTCAAGAAGTTAT  
TTTCTTCTGAATTACAATCCAAGGCTGACTCATTTTCTTCCAGCAGTGCGGTGAGCAGAGACA  
GATTGTCTTCTCCTCATCCATGCTGTCAAGAGGACAGTTGTGACAGGAACTTCGAAGGAG

Table 4

GCTCAGATGCCAGATGAGCAATGTAGAATCTTGCCGATGCCGGGACGCCTTCTTCGTTG  
ACAGCTGAACCCGCCAAAATCGGACNN

>182

NACAGCTGGCGAGTGTACCCGTTTCTGCGAGAGAAGCTAAAGAATGCCCTTGCGTG  
AGGAAATTAATTTATGTTCAAGCTAAATGTCGTTTATGGCACTGGGAACACAAGCATTGTCG  
TAACAAGTTCTGGTGAAATCCGTACATGGATACGTTCTCTTCTGGGGGCGGTCTCCAGTCC  
TTTCTCATGAGGGAGCACACTCCTCTGCCTCATTGCAGTGGCCTCAGGGATATGGAATTAAG  
ATCCACCTGGTGTGATGAATAAACCCAGACTCTCAGCAACGCAGGAAAAAAAAACAAAACT  
GGCTGGCGATCTGGAGTAAAGGATCCTCACATCCACGTGAACCGAGGAACTCTGTGCCCAA  
ATCGACGAAAAAAAAACACTGGGAGAGCCGAACTAAAAGTCTTTAGCACGGGTACCAGCC  
CTAGAATTTCCAGTAGACCAGCAGACAGCCGGGAAACCAGATCCTCATCAAAGACAGAAA  
GAAAAAAAAATTCGAAGCCAGCCTGAGAAGGGCCCTATTTCAATGCTGTTAACCACTGAGACTG  
CATCCTCAACAGTGAGACAGGATGGACCAACATACTCAAGCTCAAGGAAACATCTAACACCG  
GTCGGAAACTCATGGGATCACCGGTACCTAGGATTAGGCCATATAAAGTTTACCGTTACAGA  
ACCGCCTACTCTCATATTACGTCTCACAATGGACACTTATCCCTACCTATCCGGACAAGCCC  
CTGGGCATAGGGACCTAGCTGACAACACGCAGTACCAAGGGCCCTTAAAGCAGCCCAGACC  
CCCGTCTCGGCACAGGTGCCACATCACGAGACGCTATGGCTAAACCACAGTATAGACGGGC  
GCCCAAATGAGAGGACACCGGCCGCTTGTTGTACGGCACAAGAGCATCGCCATCAGA  
GGTAGGGCATAGAACATGACTACTACGCGGAGGGCAGCACAACGCAACACAATATATACAG  
AAAGAATGAAACGTACAGAACTTCAGCAAGTGATCTGCTTTCTTGTGTTGTCTCTCCTGAC  
CNNN

>183

tatAGGGAGTCGACCCACGCGTCCGGcCAGAGTAAAGCAAAGAGAAAAGGAAGCAGGC  
CCGTTGGAAAGTGTTGTGACAACCCAGCAATGTGGAGAAGCCTGGGGCTTGCCCTGGCTC  
TCTGTCTCCTCCCATCGGGAGGAACAGAGAGCCAGGACCAAAGCTCCTTATGTAAGCAACC  
CCCAGCCTGGAGCATAAGAGATCAAGATCCAATGCTAACTCCAATGGTTCAGTGACTGTGG  
TTGCTCTTCTTCAAGCCAGCTGATACCTGTGCATACTGCAGGCATCTAAATTAGAAGACCTG  
CGAGTAAACTGAAGAAAGAAGGATATTCTAATATTTCTTATATTGTTGTTAATCATCAAGGAA  
TCTCTTCTCGATTAAAAATACACACATCTTAAGAAATAAGGTTTCAGAGCATATTCCTGTTTATCA  
ACAAGAAGAAAACCAAACAGATGTCTGGACTCTTTTAAATGGAAGCAAAGATGACTTCCTCAT  
ATATGATAGATGTGGCCGTCTTGTATATCATCTTGGTTTGCCTTTTCTTCCCTAACTTTCCCA  
TATGTAGAAGAAGCCATTAAGATTGCTTACTGTGAAAAGAAATGTGGAACTGCTCTCTCAGC  
ACTCTCAAAGATGAAGACTTTTGTAAACGTGTATCTTTGGCTACTGTGGATAAAACAGTTGAA  
ACTCCATCGCCTCATTACCATCATGAGCATCATCAATCATGGACATCAGCACCTTGGCAG  
CAGTGAGCTTTAGAGAATCAGCAACCAGGAGCACCAAATGCTCCTACTCATCCTGCTCCTC  
CAGGCCTTCATCACCACCATAAGCACAAGGGTCAGCATAGGCAGGGTCACCCAGAGAACCG  
AGATATGCCAGCAAGTGAAGATTTACAAGATTTACAAAAGAAGCTCTGTGAAAGAGATGTAT  
AAATCAATTACTCTGTAAATTGCCACAGATTCAGAGTTGGCTCCTAGGAGCTGATGCTGCC  
ATTGTGACATCTGATATTTGAAAAACAGGGTCTGCAATCACCTGACAGTGTAAGAAAAAC  
TCCCATCTTTATGTAGCTGACAGGGACTTCGGGCAGAGGAGAACATAACTGAATCTTGTGAG  
TGACGTTTGCCTCCAGCTGCCTGACAAATAAGTCAGCAGCTTATACCCACAGAAGCCAGTGC  
CAGTTGACGCTGAAAGAATCAGGCAAAAAAGTGAGAATGACCTTCAAATAAATATTTAAAT  
AGGACATACTCCCAATTTAGTCTAGACACAATTTCAATTTCCAGCATTTTATAAACTACCAA  
TTAGTGAACCAAAAATAGAAATTAGATTTGTGCAACATGGAGAAATCTACTGAATTGGCTTC  
CAGATTTTAAATTTATGTCATAGAAATATTGACTCAAACCATATTTTTTATGATGGAGCAACT  
GAAAGGTGATTGCAGCTTTTGGTTAATATGTCTTTTTTTCTTTTCCAGTGTTCTATTGCTT  
TAATGAGAATAGAAACGTAACTATGACCTAGGGGTTTCTGTTGGATAATTAGCAGTTTAGAA  
TGGAGGAAGAACAACAAAGACATGCTTCCATTTTTTCTTTACTTATCTCTCAAACAATATT  
ACTTTGTCTTTTCAATCTTCTACTTTTAACTAATAAAATAAGTGGATTTTGTATTTTAAGATCCA  
GAAATACTTAACACGTGAATATTTTGTAAAAAAGCATATATACTATTTTAAATATCCATTTAT  
CTTTTGTATATCTAAGACTCATCCTGATTTTTACTATCACACATGAATAAAGCCTTTGTATCTT  
CTTTCTTATCTTCTTTCTCTAATGTTGTATCATACTCTTCTAAACTTGAGTGGCTGTCTTAA  
AGATATAAGGGGAAAGATAATATTGTCTGTCTCTATATTGCTTAGTAAGTATTTCCATAGTCAA  
TGATGTTTAAATAGGTAACCAAAACCTATAAACCTGACCTCTTTATGGTTAATACTATTTAA  
GCAAGAATGCAGTACAGAAATGGATACAGTACGGATTTGTCCAAATAAATTCATAAAAAACCT  
TAAAGCTGACTTCGTTTGTATGTAGGCTGTATGCATATATTGAAAACAGAAGTGAACTTTC

Table 4

GATTGCTTTTAAATAAATACCAACTAATGAATTTACTGCTAAGCTCAAAACCGiCTACGCTTAA  
GGTGAGAATCTTTGCCAACAGAAAGCGTTGCTCTAAATCGCGAATGGTATTACGAAGAATT  
GCAATCTCCTTGTTTTTCTTCTTGAAAATGCTGAAGTTTCTTCTGTAGATACTTTGTGGCA  
AAACAGTAGAATCCTGATATGATTTTGATTTAGTCTGAACTCTTGCTAGTTTGGCATCAAATTC  
TAGTTGTAGCTTGATTATTTTCATTTTTTTTTTTTTTGACTTCTTAGCTTTGCATTTAACTCTGA  
AATTTCCATCTCCTTTTTCTCTATTAGTTCTTTGTGCTTTTCTTCATTTAATTCAACTTTTTCTCT  
GCATGTCCTGATAAAGTTTGCTTATTTCTTTCTTATATCCCTCCTCTTTGATTTTCATTTCACTT  
ACAAGTTTGGCAATATTATTCTTATATTCTGTTTCTGAGACTTTAACTTCTCTTTTATAAGATC  
AGCACTTATTTTGTGTTTCACTTTCAAATCTGTTGATTTCAATGGTCTGTTGTA  
GCCCTTTTATTATATTATGAAGAGTAGCACATTCTTTAATGGAGACCTCCTTTGCTTGCAT  
TACTTTTAAATAGGCAATTACTTTTTTCCAACGAATATCCAGTATATTGTTCTTTCCATTGGTTT  
CTACCATTTTCTTTCTATCTGTGAGAAGTCATTTATAAGTTTGTCAAGATTCACACTGCTAAT  
CTTTTTCATACATCCTTCACTGCTTTGGTCCATGCTGCTGTTGCTCCTAGTTCCCCACAGTC  
TCCCTTTCCGCTCCCCGCGTACCTCGGCCGCCac

&gt;184

NACAGCTGGCGAGTGTACCCGTTTTCTGCGAGAGAAGCTAAAGAATGCCCTTGCGTG  
AGGAAATTAATTTATGTTCAAGCTAAATGTCGTTTTATGGCACTGGGAACACAAGCATTGTGCG  
TAACAAGTTCTGGTGGAATCCGTACATGGATACGTTTCTTCTGGGGGCGGTCTCCAGTCC  
TTTCTCATGAGGGAGCACACTCCTCTGCCTCATTGCAGTGGCCTCAGGGATATGGAATTAAG  
ATCCACCTGGTGTGATGAATAAACCCAGACTCTCAGCAACGCAGGAAAAAAAAACAAAACCT  
GGCTGGCGATCTGGAGTAAAGGATCCTCACATCCACGTGAACCAGGAAACTCTGTGCCCAA  
ATCGACGAAAAAAAAACACTGGGAGAGCCGAATAAAAGTCTTTTAGCACGGGTACCAGCC  
CTAGAATTTCCAGTAGACCAGCAGACGCGGAAACCAGATCCTCATCAAAAGACAGAA  
GAAAAAAAAATTCGAAGCCAGCCTGAGAAGGGCCCTATTTCAATGCTGTTAACCACTGAGACTG  
CATCCTCAACAGTGAGACAGGATGGACCAACATACTCAAGCTCAAGGAAACATCTAACACCG  
GTCGGAAACTCATGGGATCACCGGTACCTAGGATTAGGCCATATAAAGTTTACCGTTACAGA  
ACCGCCTACTCTCATATTACGTCTCACAATGGACACTTATCCCTACCTATCCGGACAAGCCC  
CTGGGCATAGGGACCTAGCTGACAACACGCAGTACCAAGGGCCTTAAAGCAGGCCAGACC  
CCCGTCTCGGCACAGGTGCCACATCACGAGACGCTATGGCTAAACCACAGTATAGACGGGC  
GCCCAAATGAGAGGACACCGGCCGCTTGGTTGTACGGCACAAGAGCATCGCCATCAGA  
GGTAGGGCATAGAACATGACTACTACGCGGAGGGCAGCACAACGCAACACAATATATACAG  
AAAGAATGAAACGTACAGAACTTCAGCAAGTGATCTGCTTTCTTGTGTTGTCTTCTCCTGAC  
CNNN

&gt;185

ctgtcgcgccgcttatagttccggctgtggcgcgccgacggaaagttatgccgacggaaagttatgccgacggactGT  
GTCCGGCGATGGGCACGGGCATTTCTTCGTTTATAGCTGTCTGTTTGCATTCTGATTGGGAA  
CACTGGGATCATTTTCATCATGCCGACAGTGGTGGTAATGGATGTATCCCTTTCCATGACCC  
GACCTGTGTCTATTGAGGGGTCCGAGGAATACCAGCGAAGCACTAAGTAATATGGATGATTA  
TGACAAAACCTGCTTGGAGTCTGCATTAGTTGGTGTGCAATATCGTTCAGCAAGAATGGG  
GTGGTGCAATTCCTTGCCAGGTTGTCTGGTGACAGACGGCTGTCTGGCATTGGTAGAGG  
GTCATGCGACATTCCCTAGCCACTCAAAATCAACGAAGTGAGAGCAACAGGTTTCCACTAC  
CTTTTCTTTCCCATCTAAGTTATATCATGTGCATGGCGAATTTGggaGGAGCTCCAGAGC  
ACCGATTCTTGGAATGCCTTGAACGCTCTCATAGATTTAAACAATggTgAAGGGCAGATTTTFA  
CTATTGATGgccccctGTGCTTGAAGAATGTACAGTClatGiTTGGAAAACCTGATAGATTTGGCATA  
TAcgctttccatgctgttctcaagtgtggccacctaactgctga

&gt;186

NNATGTGGTTACGACCCACTGTATTGAGGTGACGCGATCCATAGGCTGTGGTGT  
GTTTTCGCTGATCCACACAAACGTTGGGGCACTGTCTATTATCATGTGTTCAAGCTGAAGGCTC  
GTTCTCGGTTGTCAATTTACAGTGTCTTTCTACGGGGTTACATTACAGGAATGTTGTAGCGAC  
GTTTAGCCCGTGGAGTATCAACGTCTTGAGACTCCGTGTGAGACTCCCTGGTTTGTCCACA  
ACAGTGTGTTTTAGATTCCGTACCTTTGATTAAGGAACACATCATGCCGTGAAGCCAATTTA  
TATTCTGCAATTCGTAAGTGCATGTAATGTATTCTGCCGTCTCGTAGTGTGAAGCCATGCTTG  
GCACATCCAGTTCTTTGATGTCTGGCTGCCTCTGCGGGCCAACTGTCTTGGAATTCGTT  
GCTCCAGAGATAGCTTGAACCTGCAGATCCCGCACAGCATTGCACTGAGCTGCTGCTGTATC  
TGAGCCTGGACATGGCGGCCGAGGTACTCACAGTCACGCAAAATTCACAGTCTGCGTGCACG  
GCTCTCCATTCTTCTTGGCTTTACAGGTTCCAGGTCAGAGCTTCAACCCATAATTAAGA

Table 4

CCTTCTGAGGATGATCGATAGATAAACACACCTCCTCTGAACCATCCTTGGGCTTCATGGGG  
TTGGCATTGAGGATCCCTACGACAGTCCCCTGCTCCGTCTTCCAGAGCGCTTTGTGAACCTC  
TCCAAATAAGAACAAGGACACACATTGTGTACGGTCACGAAGATCATTACAGTTTCCATATGCT  
GAAGGTTTTTCCACTATTACACTCTGTGGCGTAACCTTCTTCAATATAACCCCAAATGTCAC  
CCAATCTATTTCTTCCAGCTTCTCTCTGGCCATCTTTTCTTGATCTGAGACAGTCTGATCAG  
TTTTCGGCCCGGTCTGTGTCTTCGTTTCATATCTCTGGAGGATACTCGAGCCCGCCTCGAGC  
CGCAGACCAGGAGAAGGCTTCCACACAGATGGCGATTGAGTCGTTTCTCACAGAACTTTC  
ACTCGGGGTCCACCACATATTTGACCTCTAGTTATCCCACTAGGTTTGTTCCGAGAAATCGT  
CTGTAGGGGTTGGGAGGGTGCACCTGTCTCCTTGAAGATGAGCTTTTGGGATCTGGAGGT  
GAAGCCTTTGGTGTTCGAGCCACCCTCTTGGTCTTGGTAGCGCAGGGACATCAAGCTCCG  
CAGAAAAGCATGTTGACTCCTGAATCTCTGAACTCTCCTCTCCTTAAGAGGTGGCCGGGA  
GACTTCTCAGGGGATTTTGCAGACGGGCTGGGCTTGTCTGTCTGTTAATTGTTGTTACTTTT  
AGCTGCTCTTGTAAAGCCTTCATTTGCTCTTGCAAATTCCTTAATTCCTCTTGCAACTCTTCAT  
TCGTTTTCTCTCGCCTGGGGGACAGGAGCAGGGAGGACCCTATTTTCAGTTGACTGTGATGC  
GGGAACCTTCTTCTCATCTGTAAAGTCTCCATATCTCAAAGAGAGTGGCCAGATTTTCTT  
TTCGTCTCTGTCTCTCCTGTTTCTCCATCATCAGCCTCTTCTGTATAAGATTACCGTCGCC  
GTCGGCATCAAAGAGCTCATCAATGCGTCGGGCTCGCCATTTTCCCGCGTCAAGAAGTTAT  
TTTCTTCTGAATCAATCCAAGGCTGACTCATTTTCTTCCAGCAGTGGGTGAGCAGGAGACA  
GATTGTCTTCTCCTCATCCATGCTGTCAAGAGGACAGTTGTGACAGGAAACTTCGAAGGAG  
GCTCAGATGCCAGATGAGCAATGTAGAATCTTGGCCGATGCCGGGACGCCTTCTTCGTT  
ACAGCTGAACCCGCCAAAATCGGACNN

&gt;187

NNNNNNCTAAACAGCCTGACACTGAGGGGAGGCAGTGAGACTGTAAGCAGTCTGG  
GTTGGGCAGAAGGCAGAAAACAGCAGAGTCACAGAGGAGATGGCCAACTGCCAAATAGC  
CATCTTGATACCAGAGATTCCAGAGAGTGGTCTTTGGAATTTCCCAACTCCTTTGCTTCAGTGC  
CCTGATCTCTGAACTAACAAACCAGAAAGAAGTGGCAGCATGGACTTATCATTACAGCACAA  
AAGCATACTCATGGAATATTTCCCGTAAATACTGCCAGAATCGCTACACAGACTTAGTGGCC  
ATCCAGAATAAAAAAGAAATTGATTACCTCAATAAGGTCTACCCTACTACAGCTCCTACTAC  
TGGATTGGGATCCGAAAGAACAATAAGACATGGACATGGGTGGGAACCAAAAAGGCTCTCA  
CCAACGAGGCTGAGAAGTGGGCTGATAATGAACCTAACAAACAAAAGGAACAACGAGGACTG  
CGTGGAGATATACATCAAGAGTCCGTCAGCCCTGGCAAGTGAATGATGAGCACTGCTTG  
AAGAAAAAGCACGCATTGTGTTACACAGCCTCCTGCCAGGACATGTCTGCAGCAAAACAG  
GAGAGTGCCTCGAGACCATCGGGAACCTACACCTGCTCCTGTTACCCTGGATTCTATGGGCC  
AGAATGTGAATACGTGAGAGAGTGTGGAGAATTTGAGCTCCCTCAACACGTGCTCATGAAC  
GCAGCCACCCTCTGGGAACTTCTCTTTAACTCGCAGTGCAGCTTCCACTGCACTGACGG  
GTACCAAGTAAATGGGCCAGCAAGCTGGAATGCTTGGCTTCTGGAATCTGGACAAATAAG  
CCTCCACAGTGTGTTAGCTGCCAGTGCCACCCCTGAAGATTCTGAACGAGGAAACATGAT  
CTGCCTTCATTCTGCAAAAGCATTCCAGCATCAGTCTAGCTGCAGCTTCAGTTGTGAAGAGG  
GATTTGCATTAGTTGGACCGGAAGTGGTGAATGCACAGCCTCGGGGGTATGGACAGCCCC  
AGCCCCAGTGTGTAAGCTGTGCAGTGTGAGCACCTGGAAGCCCCAGTGAAGGAACCATG  
GACTGTGTTTCATCCGCTCACTGCTTTTGCCTATGGCTCCAGCTGCAAATTTGAGTGCCAGCC  
CGGCTACAGAGTGAGGGGCTTGGACATGCTCCGCTGCATTGACTCTGGACACTGGTCTGCA  
CCCTTGCCAACTGTGAGGCTATTTCTGTGTGAGCCGCTGGAGAGTCTGTCCACGGAAGCA  
TGGATTGCTCTCCATCCTTGAGAGCGTTTCAGTATGACACCAACTGTAGCTTCCGCTGTGCT  
GAAGGTTTCATGCTGAGAGGAGCCGATATAGTTCGGTGTGATAACTTGGGACAGTGGACAG  
CACCAGCCCCAGTCTGTCAAGCTTTGCAGTGCCAGGATCTCCAGTTCCAAATGAGGCCCG  
GGTGAAGTGTCTCCACCCCTTCGGTGCCTTTAGGTACAGTCAGTCTGCAGCTTACCTGC  
AATGAAGGCTTGTCTGTTGGGAGCAAGTGTGCTACAGTCTTGGCTACTGGAAGTGA  
ATTCTGTTCTCCAGAATGCCAAGCCATTCCCTGCACACCTTTGCTAAGCCCTCAGAATGGA  
ACAATGACCTGTGTTCAACCTCTTGAAGTTCAGTTATAAATCCACATGTCAATTCATCTGT  
GACGAGGGATATTCTTTGTCTGGACCAGAAAGATTGGATTGTACTCGATCGGGACGCTGGA  
CAGACTCCCCACCAATGTGTGAAGCCATCAAGTGCCAGAACTCTTTGCCCCAGAGCAGGG  
CAGCTGAGATTGTTCTGACACTCGTGGAGAATTCATGTTGGCTCCACCTGCCATTTCTCTT  
GTAACAACGGCTTTAAGCTGGAGGGGCCCAATAATGTGGAATGCACAACTTCTGGAAGATG  
GTCAGTACTCCACCAACCTGCAAAGGCATAGCATCACTTCTACTCCAGGGGTGCAATGTC  
CAGCCCTCACCCTCCTGGGCAGGGAACCATGTACTGTAGGCATCATCCGGGAACCTTGG

Table 4

TTTTAATACCACTTGTTACTTTGGCTGCAACGCTGGATTACACTCATAGGAGACAGCACTCT  
 CAGCTGCAGACCTTCAGGACAATGGACAGCAGTAACTCCAGCATGCAGAGCTGTGAAATGC  
 TCAGAACTACATGTTAATAAGCCAATAGCGATGAACTGCTCCAACCTCTGGGGAACTTCAG  
 TTATGGATCAATCTGCTCTTTCCATTGTCTAGAGGGCCAGTTACTTAATGGCTCTGCACAAAC  
 AGCATGCCAAGAGAATGGCCACTGGTCAACTACCGTGCCAACCTGCCAAGCAGGACCATTG  
 ACTATCCAGGAAGCCCTGACTTACTTTGGTGGAGCGGTGGCTTCTACAATAGGTCTGATAAT  
 GGGTGGGACGCTCCTGGCTTTGCTAAGAAAGCGTTTCAGACAAAAAGATGATGGGAAATGC  
 CCCTTGAATCCTCACAGCCACCTAGGAACATATGGAGTTTTTACAAACGCTGCATTGACCC  
 GAGTCTTAAGGTTTTCCATAAACACCCATGAATCAAAGACATGGAATTACCTTAGATTAGCTC  
 TGGACCAGCCTGTTGGACCCGCTCTGGACCAACCCTGTTTCTGAGTTTGGGATTGTGGTA  
 CAATCTCAAATTCTCAACCTACCACCCCTTCTGTCCCACCTCTTCTCTTCTCTGTAACACAAG  
 CCACAGAAGCCAGGAGCAAAATGTTTCTGCAGTAGTCTCTGTGCTTTGACTCACCTGTTACTT  
 GAAATACCAGTGAACCAAAGAGACTGGAGCATCTGACTCACAAGAAGACCAGACTGTGGAG  
 AAATAAAAAATACCTCTTTATTTTTTGAATGAAGGAAGGTTTTCTCCACTTTGTTGGAAAGCAGG  
 TGGCATCTCTAATTGGAAGAAATTCCTGTAGCATCTTCTGGAGTCTCCAGTGGTTGCTGTTG  
 ATGAGGCCTCTTGACCTCTGCTCTGAGGCTTCCAGAGAGTCTCTGGATGGCACCAGAGG  
 CTGCAGAAGGCCAAGAATCAAGCTAGAAGGCCACATGTCACCGTGGACCTTCTGCCACCA  
 GTCACTGTCCCTCAAATGACCCAAAGACCAATATTCAAATGCGTAATTAAGAATTATCCCC  
 AAAAAAAAAAAAAAAAAAAGATCTTTAATTAAGCGGCCGCAAGCTTN

&gt;188

NNAGCTCCCCCGCGGTGGCGGCCCGCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTT  
 TGTAACACAGGTGTCAGATGCATCAGAAAAGCAGAAGTGCCCTTCAGCTCTTCTGTGC  
 CATTCTTGTCAATTTTCATGCTGCCTACAGCAACAGCATAATACTGCAAACAGCCATGATGTC  
 ACTCGAAGTGCTCTGTGATTGACAGAGAGGGACAGTCGTAGTCAGAGGTGGCTCCTCAGAG  
 AATTCAGAACTCACTCGCTGTCTCCAGGGGCTCATCCCTTGATTGAGGGAGGGATGAAAT  
 ATTCTCTGCATGAGAGAGCAGGGATGGGAAGTGATATAGGTATGTAAGGATGGTCAGTTACT  
 CTAATGTAGTTAGACAGGACAGCCAGAATACCGAGGTCTTGTTAGGTCCTCTGTAACAAG  
 CCGTAGAGGCCAGAAATGTGGTGACAGCGAGACACATTCTTAACCTTTACACTTGTGAAA  
 TGAGTAGAAGGTGACATTTGTTTGGAAATCCCTCCCCAGCCTTGTTNCCANN

&gt;189

NNNNNNNNAAGGAAAGCAGCTGCAAACCTCCCATCTGCAGTGTTTGTGTTGCTCGG  
 CTCCGGCCATCACTGCCACGATTACCCCTGGATGAATTCCTCAGTGGAATATCAACAAGAC  
 TCAGCCCACCTGCACCCAGGTGATTAAGGCTTTATTGCTCACACAAAGCCTGTTTGGTGG  
 TCTCTTCACATGGACGCGCGGACATTTGGTGCCCTGACTTGGATCAGGGGACCTCCCTTG  
 GGAGATCAATCCCCTGTCTCCTGCTCTTTGCTCCGTGAGAAAGATCCACCTACGACCTCTG  
 GTCCTCAGACCAACCAGCCCAAGGAACATCTACCAATTTTTAATCAAGAATATTCTGTGAA  
 AAGACTAAGATATCAGAGAAATTTATTAGTGCACATTATTAGAAGAGAGCTTCAGATGAAATA  
 AAGATCAAGAAAAGACTCTTGCTTTGAGAAGACACAAAGAAATCACATCATCTTATTGGGATT  
 ACNNNN

&gt;190

accacgcGTCCGGAcggaGCTgtatgAAAGcggcggAGTTATAGACCGCTAACACCTGTCA  
 CTGGCCACTGGTTTCCCGGAGTTAGCGGCAACGACCTTGACGCTGGACACTAGCCAGGC  
 GCTCCCTCTTCTCACAGCGGCCACGTCTCCTTGCTTGGGAGCCCATCGTCTGGCTCCGG  
 TGGCCTCGCTGGGTCTCGGGGAAGCAGAGGACTGTTCAATCCTGTGGCGAAAAGCCGGAG  
 TCGGCCCTAGACACCCACGACTCGCAGGGTCCATGGTTCGGGAGGCCGTGAGACCTGCCG  
 GGGCTGACAGGTGCCAGGGCCCATGCTGCGGGAGCCTGTGTCTCAGCCTTCTTGCGGAG  
 GGTAAGAAGCTAAGTGGAAGAGTGTTCCTCCTCTGGCCGTAAAGCAGGTACTCTGTGCA  
 GCACCAGCTGTCCCCGCCCTACTCCGGACCGCCCCAAAGACTCCATGGGATGGACCTGAG  
 TCAGCCGAATCCCAGCCCCCTTCCCTTGGGCCTGCTGTGGTGCTGGACATCAGTGACAGACG  
 GAAGCAGGAGACCATCAAGGcctACGGGAGGCCCGGGGCGCTTGCGAAGATGAAGTTTGGC  
 TGCTCTCCTTCCGGCAGgcCTTATGCTGGCTTTGTCTTAAATGGAATCAAGACTGTGGAaggac  
 cgCGCTGGCGTCCCCTGCTGAGCAGCCAGCGGAAGTGTACCATCGCCGTCCACATTGCTCA  
 CAGGACTGGGAAGGCGATGCCTGGCGGGAGCTGCTGGTGGAGAGACTCGGGATGACTC  
 CTGCTCAGATTGAGGCCTTGCTCAGGAAAGGGGAAAAGTTTGGTCGAGGAGTGATAGCGGG  
 ACTCGTTGACATTGGGGAACTTTGCAATGCCCGAAGACTTAACTCCCGATGAGGTTGTGG  
 AACTAGAAAATCAAGCTGTACCCTGATGCTACAGACGAGGACATCACCTCACACATGGAAAG



Table 4

CGAGGAGTTGAATGGTGCATACAAGGCCATCCCCGTTGCCAGGACCTGAACGCGCCTTCT  
GATTGGGACAGCCGTGGGAAGGACAGTTATGAAACGAGTCAGCTGGATGACCAGAGTGCTG  
AAACCCACAGCCACAAGCAGTCCAGATTATATAAGCGGAAAGCCAATGATGAGAGCAATGA  
GCATTCCGATGTGATTGATAGTCAGGAACTTTCCAAAGTCAGCCGTGAATTCACAGCCATG  
AATTCACAGCCATGAAGATATGCTGGTTGTAGACCCCAAAAGTAAGGAAGAAGATAAACAC  
CTGAAATTTCTGATTTCTCATGAATTAGATAGTGCATCTTCTGAGGTCAATTAAGGAGAAA  
AAATACAAATTTCTCACTTTGCATTTAGTCAAAAGAAAAAATGCTTTATAGCAAAATGAAAGAG  
AACATGAAATGCTTCTTTCTCAGTTTATTGGTTGAATGTGTATCTATTTGAGTCTGAAATAAC  
TAATGTGTTTGATAATTAGTTTAGTTTGTGGCTTCATGGAACTCCCTGTAAACTAAAAGCTTC  
AGGGTTATGTCTATGTTCACTTCTATAGAAGAAATGCAAACTATCACTGTATTTAATATTTGTT  
ATTCTCTCATGAATAGAAATTTATGTAGAAGCAAAACAAAATACTTTTACCCCTTAAAAAGAGA  
ATATAACATTTTATGTCATAAATCTTTTGTGTTTTAAGTTAGTGTATATTTGTTGTGATTATC  
TTTTGTGGTGTGAATAAATCTTTTATCTTGAATGTAAAAAAGGTTTAAAGT

&gt;191

GTACTCCCTGGAAAGTCCAGCTGAGAAAGCGATCCTGCCCTCTGCTCCTCCAGGG  
TTACCCCTCCTGTAAGTCTTCTGCTTAGTGTTGAGAAATGGGGGATGCTGGGACTGGGCAAGG  
ACTTGTAGGCAACACCCCATAGCCTGCTCATGCCTGTTGGGTTGCCATGGATCATTCCCTG  
CTGGGCTCACTCACCAGCTTCGTATAAGGTCCTTTTGGGTTTATTATTTCTTGTCCATAT  
ACTTGATGCTCTTCATTGGCTTGTCTGGGACCTGCCTTAGGTTCTCCGAGGCATAAAAGGGC  
CGGACAGCCCCCGAGTTGGGGGAAGTCTGAAGCTTCTTGGTGGCTGGAACCTTGGTCATCT  
TAAAAATCCTTCAGGTTTTAGCCTGTGCCCCCAAGACAAGGATTTTCCAGAATCTTCTACTT  
CAGTAGTTACTGGTATGAGAAGTTTCGGCAACTTCTCCCTGATCCCCAAGTCCCAATTACAC  
GAACCTCAAAGCGGTTTCTTCTCCCGCGN

&gt;192

TGGCGGCCGCCCCGGGCAGGTACTTTTTTTTTTTTTTTTTTTTTTTTTTCTGGCTTGAA  
ATACAGCTGAAATAACTGAATTTTCTACTTGAAACGTGTGTGCCTCTCCACTGAGGGGCCAA  
GGCCCTGGAAATGTAAAGGGCCAATCTTTGTTACAGAGGGGTTCAATTGCAGTGAAGGGCGG  
GTTCTGCAAAGACAAACAGGTCTCACAGATAGTTGCCCCGCGT

&gt;193

&gt;194

&gt;195

NNGAGGATCCATTATCTTCTGTTTGCTTTGCTCTTCCTGTTTTTGGTGCCTGTTCCAG  
GTCATGGAGGAATCATAAACACATTACAGAAATATTATTGCAGAGTCAGAGGCGCGCGGTGT  
GCTGTGCTCAGCTGCCTTCCAAAGGAGGAACAGATCGGCAAGTGCTCGACGCGTGGCCGA  
AAATGCTGCCGAAGAAAGAAATAAAAACCTGAAACATGACGAGAGTGTGTAAAGTGTGGA  
AATGCCTTCTTAAAGTTTATAAAAGTAAATCAAATTACATTTTTTTTCCAAAAAAGGTTTAAAGT

&gt;196

ACGCGGGGGGATCCGAGTGAGGCGACGGGGTAGGGGTTGGCGCTCAGGCGGGCGA  
CCATGGTGATTGTGATTCATCATCCCTTAATTAATATCAAATTATTTGTGTGAAATGTGA  
CAAACACACTTATCTGTCTCTTCTACAATTGTGGTTTATTGAATGTGATTTTCTGCTACTAATA  
TAAATTAGACTAAGTGTTCATTAATCTAAATCTTACGATGATGTGTTGTGTATAATTGG  
AGTAGATATTAATTAAGTCACCTGTATAATGTTTTGTAATTTTGCAAAACATATCTTGAGTTGT  
TTAAACAGTCAAAATGTTTGATTTTTATACCAGCTTATGAGCTCAAAGTACCTCGGCCGCC

&gt;197

&gt;198

NACTTGGTGTTTGTCCCCCGGCGAACACATTTTGGGGTGCGCACACTGGCCCTG  
GTGGCGCGCTTCTTTTAGGGGGCCTGTGGCCACAGACAATGTTCTAACCGGGTAGTGGT  
GCTCTCTTACCCCGGTGGTCAGATAACCAGGGGGCCAGGGTCCCTTCTTTTGGCCCTGTG  
GCACACCCGGTACCCTAAAGCTTGACCCGTTAAAGCTGTACTTGTAAGTGGGTACCTCGTG  
AACTGTCAAGGAGGCCAGAGCAGGAAAGGGAAAGGAATAACCCCCACCACCCCAACACAA  
GAGAGGCACAAATTAGAGGGCTGGGCACAGGCTGTAGCCCTGGGTGAGGGGGTAAAGCAGC  
TTGACAGTTGCTCTGTGGTCTCTGGGATATAATTCTGCCAAGGCTAGAACCACAGAGAAGA  
GTTTGCACTCTTAAGTCCAGGAAGGGGACTACCTGGAAGGCCTGAGAACAAGGAGAAAGT  
TTAGCACACTAAACACATGGCCAGGACCCTAGGGACACAAGGCAGCTGGAGAGTGGGATCT  
CTTGTTAAATGGCATGGTAGGCAGATTAGAGTCCTGGCTATAATCCCTAGGGCCCCAATCCT

Table 4

AGTAGTTACGTGCTAACCAACACATTACCCTGAGGCTTCTGGGAGAACAAAGAGCCCTGAGG  
AAGAAGCAGTAAGACCAGGCATGAGAAAACCCAGAAAGCCAGCTCAGTTCCTCAAGAAGGCT  
GGCACATGGGGCCTGAGAATTCTTAAATGGCCATTGTCACTGGTACTTGCTCAGCCTTTCCA  
GGCCCCCTCTGATGAGCTCTCTAATCAGCAGGACCAAGGTGTGAAGTGGGAATGAACATGGA  
TCCATCCCATTGGATGGAGAAGAAAGGTGGACAGCCTGTTCTGTCTCATGTGAGCCTAGG  
GCTGGGAACAGTTTGTGAGGACTTATCTGTTGTACCTGCCAAAAGTTAATTAGTAACCTACC  
GTCGAGAGTGAATTAACAGGACAAACGTAATCCAACATGCCAGTGTGGGTAGGACACAGTT  
CCCTAATCAGCCCTTGGCCCCCAGATGCAGGCTCTCCCCTCCCCTCTGAGACCTCTCTGGG  
AATAGCAGACAAGAGAATGTCAGGGCAGAAACCTGCTGGACTAGGCTCTCAGCAGCCCAGC  
TCCTCCCTGGGGGAATCCCCCAGAATTCCTCACTGTGTGACACAGTTTTCTCCCATGTCCTG  
GGCATATCTGTCTGACATGGTGGTCCTTAAGTCCTCAATGTCACGACGCAGCTGTTGAACCT  
CTTCTAGTTTCCTCTTGATCACATCTGGCTTCTGCAAACTAGCTGAGTCTCTGGGTGCTGTG  
AGTGAATGCCAGGAGCAGGGAGAGATTGGGGTCATGGCCCTGGGCCCTCTGGGTCACAA  
TGCTACAGACAGCCTGCAGATCTTGAAGGCAACTGGCCAACTCCTGGTGCAGCTCAAGTGC  
CAGCTGGGCCGTGTCTGGTGAAGGTGGAGACCCTGGTTGGGCCTGGCGCAGGTGTTCTCTG  
GAGTGTGAGATTCTTCTCAATCAAGTCCTGGTTTTGCACTGAAAGCTCCTTTCACGGCTGTG  
CGCAGCTGCTGCAGGGCTGAATCCCTTCGCTGGGCCTCCTCTCTCAGGGCCTGGCTTGTT  
CTTCTTCTTGAGCCACTTCCTGCTCTAGGCTCTGTACTTGTGAGCGCAACTGATCCATCTT  
GCTGCTGCTTCTCCACAATCTTTGGAGCGAATCGTATCGCTTCTGCCAGGACTCCATTTC  
ACTTCTGGACCTTCTCCACTGGTCTCCTCCACAGACTGTTTATCTTGCAGGCTATGTCCAGC  
GGAGGAGAATTCTGCTTCTCTCTGCCTCAGGCTTTCAGTTGAATCTCCTTCTCTCTGCAGA  
TTGCCTGGGTCTCCTCCAGCAAACTCTCCAGCTCAGTCACTTCTCCTGCAGCTCTGTGCTC  
TTCAACTCAGAATCCTTAAGCTATATTTAATTTCTCAGCAAGGCAATTTTACTTCTCTGCAGA  
AAGGTGCTCCTCGCAGATGGAACAAN

&gt;199

NACTTGGTGTGTTGTCCCCCGGCGAACACATTTTGGGGTGCGCACACTGGCCCTG  
GTGGCGCGCTTCTTTTTAGGGGGCCTGTGGCCACAGACAATGTTCTAACCAGGGTAGTGGT  
GCTCTCTTACCCCGGTGGTCAGATAACCAGGGGGCCAGGGTCCCTTCTTTTGGCCCTGTA  
GCACACCCGGTACCCTAAAGCTTGACCCGTTTAAAGCTGTACTTGTAAGTGGGTACCTCGTG  
AACTGTCAAGGAGGCCAGAGCAGGAAAGGGAAAGGAATAACCCCCACCACCCCCAACACAA  
GAGAGGCACAAATTAGAGGGCTGGGCACAGGCTGTAGCCCTGGGTGAGGGGGTAAGCAGC  
TTGACAGTTGCTCTGTGGTCTCTGGGATATAATTCTGCCAAGGCTAGAACCACAGAGAAGA  
GTTTGCACCTTAAGTCCAGGAAGGGGACTACCTGGAAGGCCTGAGAACAAAGGAGAAAGT  
TTAGCACACTAAACACATGGCCAGGACCTAGGGACACAAAGGCAGCTGGAGAGTGGGACT  
CTTGTTAAATGGCATGGTAGGCAGATTAGAGTCCTGGCTATAATCCCTAGGGCCCCAATCCT  
AGTAGTTACGTGCTAACCAACACATTACCCTGAGGCTTCTGGGAGAACAAAGAGCCCTGAGG  
AAGAAGCAGTAAGACCAGGCATGAGAAAACCCAGAAAGCCAGCTCAGTTCCTCAAGAAGGCT  
GGCACATGGGGCCTGAGAATTCTTAAATGGCCATTGTCACTGGTACTTGCTCAGCCTTTCCA  
GGCCCTCTGATGAGCTCTCTAATCAGCAGGACCAAGGTGTGAAGTGGGAATGAACATGGA  
TCCATCCCATTGGATGGAGAAGAAAGGTGGACAGCCTGTTCTGTCTCATGTGAGCCTAGG  
GCTGGGAACAGTTTGTGAGGACTTATCTGTTGTACCTGCCAAAAGTTAATTAGTAACCTACC  
GTCGAGAGTGAATTAACAGGACAAACGTAATCCAACATGCCAGTGTGGGTAGGACACAGTT  
CCCTAATCAGCCCTTGGCCCCCAGATGCAGGCTCTCCCCTCCCCTCTGAGACCTCTCTGGG  
AATAGCAGACAAGAGAATGTCAGGGCAGAAACCTGCTGGACTAGGCTCTCAGCAGCCCAGC  
TCCTCCCTGGGGGAATCCCCCAGAATTCCTCACTGTGTGACACAGTTTTCTCCCATGTCCTG  
GGCATATCTGTCTGACATGGTGGTCCTTAAGTCCTCAATGTCACGACGCAGCTGTTGAACCT  
CTTCTAGTTTCCTCTTGATCACATCTGGCTTCTGCAAACTAGCTGAGTCTCTGGGTGCTGTG  
AGTGAATGCCAGGAGCAGGGAGAGATTGGGGTCATGGCCCTGGGCCCTCTGGGTCACAA  
TGCTACAGACAGCCTGCAGATCTTGAAGGCAACTGGCCAACTCCTGGTGCAGCTCAAGTGC  
CAGCTGGGCCGTGTCTGGTGAAGGTGGAGACCCTGGTTGGGCCTGGCGCAGGTGTTCTCTG  
GAGTGTGAGATTCTTCTCAATCAAGTCCTGGTTTTGCACTGAAAGCTCCTTTCACGGCTGTG  
CGCAGCTGCTGCAGGGCTGAATCCCTTCGCTGGGCCTCCTCTCTCAGGGCCTGGCTTGTT  
CTTCTTCTTGAGCCACTTCCTGCTCTAGGCTCTGTACTTGTGAGCGCAACTGATCCATCTT  
GCTGCTGCTTCTCCACAATCTTTGGAGCGAATCGTATCGCTTCTGCCAGGACTCCATTTC  
ACTTCTGGACCTTCTCCACTGGTCTCCTCCACAGACTGTTTATCTTGCAGGCTATGTCCAGC  
GGAGGAGAATTCTGCTTCTCTCTGCCTCAGGCTTTCAGTTGAATCTCCTTCTCTCTGCAGA

Table 4

TTGCCTGGGTCTCCTCCAGCAAACCTCTCCAGCTCAGTCACTTTCTCCTGCAGCTCTGTGCTC  
 TTCAACTCAGAATCCTTAAGCTATATTTAATTTCTCAGCAAGGCAATTTTACTTTCTGCAGA  
 AAGGGTGCTCCTCGCAGATGGAACAAN  
 >200

NNATGTGGTTACGACCCACTGTATTGAGGTGACGCGATCCATAGGCTGTGGTGTTT  
 GTTTTCGCTGATCCACACAAACGTTGGGGCACTGTCTATTCATGTGTTCAAGCTGAAGGCTC  
 GTTCTCGGTTGTCAATTTACAGTGTTTTCTACGGGGTTACATTACAGGAATGTTGTAGCGAC  
 GTTTAGCCCGTGGAGTATCAACGTCTTGAGACTCCGTGTGAGACTCCCTGGTTTGTTCACA  
 ACAGTGTGTTTTAGATTCCGTACCTTTGATTAAGGAACACATCATGCCGTGAAGCCAATTTA  
 TATTCTGCAATTCGTAGTGCATGTAATGTATTCTGCCGTCTCGTAGTGTGAAGCCATGCTTG  
 GCACATCCAGTTCTTTGATGTCTGGCTGCCTTCTGCGGGCCAACCTGTCTTGGAATTCGTT  
 GCTCCCAGAGATAGCTTGAAGTGCAGATCCCGCACAGCATTGCACTGAGCTGTCTGTTGTATC  
 TGAGCCTGGACATGGCGGCCGAGGTACTCACAGTACGCAAATTCACAGTCTGCTGTCACG  
 GCTCTCCATTCTTCTTGGCTTTACAGGTTCCAGGTCAGAGCTTCACCCATAATTAAGA  
 CCTTCTGAGGATGATCGATAGATAAACACACCTCCTCTGAACCATCCTTGGGCTTCATGGGG  
 TTGGCATTGAGGATCCCTACGACAGTCCCCTGCTCCGTCTTCCAGAGCGCTTTGTGAACCTC  
 TCCAAATAAGAACAAAGGACACACATTGTGTCAAGTCCAGGAAGATCATTAGTTTCCATATGCT  
 GAAGGTTTTTCCACTATTACACTCTGTGGCGTAACCTTCTTCAATATAACCCCAAATGTCAC  
 CCAATCTATTTCTTCCAGCTTCTCTCTGCCATCTTTTCTTGTGATCTGAGACAGTCTGATCAG  
 TTTTCGGCCGGTCAATGTGTCTTCGTTCAATTTCTCTGGAGGATACTCGAGCCCGCCTCGAGC  
 CGCAGACCAGGAGAAGGCTTCCACACAGATGGCGATTGAGTCGTTTCTCACAGAACTTTC  
 ACTCGGGGTCCACCACATATTTGACCTCTAGTTATCCCACTAGGTTTGTTCGAGAAATCGT  
 CTGTAGGGGTTGGGAGGGTGCATTTGTCACTCTGAAGATGAGCTTTTGGGATCTGGAGGT  
 GAAGCCTTTGGTGTTTCGAGCCACCCTCTTGGTTCTTGGTAGCGCAGGGACATCAAGCTCCG  
 CAGAAAAGCATGTTGACTCCTGAATTTCTCTGAACCTCTCCTCTCCTTAAGAGGTGGCCGGGGA  
 GACTTCTCAGGGGATTTTTGCAGACGGGCTGGGCTTGCTGTCTGTTAATTGTTGTTACTTTT  
 AGCTGCTCTTGAAGGCCTTCATTTGCTCTTGCAAATTCCTTAATTCCTCTTGCAACTCTTCAT  
 TCGTTTTCTCTCGCCTGGGGGACAGGAGCAGGAGGACCCTATTTTCAGTTGACTGTGATCG  
 GGGAACTTCTTCTTCATCTGTAAAGTCCTCCATATCTCCAAAGAGAGTGGCCAGATTTTCTT  
 TTCGTCTCTTGTCTCTCCTGTTTCTCCATCATCAGCCTCTTCTGTATAAGATTCACCGTCGCC  
 GTCGGCATCAAAGAGCTCATCAAATGCGTCGGGCTCGCCATTTTCCCGCGTCAAGAAGTTAT  
 TTTCTTCTGAATTACAATCCAAGGCTGACTCATTTTCTTCCAGCAGTGCGGTCAGCAGAGACA  
 GATTGTCTTCTCCTCATCCATGCTGTCAAGAGGACAGTTGTGACAGGAACTTCGAAGGAG  
 GCTCAGATGCCCAGATGAGCAATGTAGAATCTTGGCCGATGCCGGGACGCCTTCTTCGTTT  
 ACAGCTGAACCCGCCAAAATCGGACNN  
 >201  
 >202

ggAgTCGACCCACGCGTCCGATCATGTGACACGGAAGTAGCTCCGAACAGGAAGAG  
 GACGAAAAAATAACCGTCCGCGACGCCGAGACAAACCGGACCCGCAACCACCATGAACAG  
 CAAAGGTCAATATCCAACACAGCCAACCTACCCTGTGCAGCCTCCTGGGAATCCAGTATACC  
 CTCAGACCTTGATCTTCTCAGGCTCCACCCTATACCGATGCTCCACCTGCCTACTCAGAG  
 CTCTATCGTCCGAGCTTTGTGCACCCAGGGGCTGCCACAGTCCCCACCATGTCAGCCGCAT  
 TTCCTGGAGCCTCTCTGTATCTTCCATGGCCAGTCTGTGGCTGTTGGGCCTTTAGGTTCC  
 ACAATCCCCATGGCTTATTATCCAGTCGGTCCCATCTATCCACCTGGCTCCACAGTGTGGT  
 GGAAGGAGGGTATGATGCAGGTGCCAGATTTGGAGCTGGGGCTACTGCTGGCAACATTCCT  
 CCTCCACCTCCTGGATGCCCTCCCAATGCTGCTCAGCTTGCACTCATGCAGGGAGCCAACG  
 TCCTCGTAACCTCAGCGGAAGGGGAACCTTCTCATGGGTGGTTCAGATGGTGGCTACACCAT  
 CTGGTGAGGAACCAAGGCCACCTTTGTGCCGGGAAAGACATCACATACCTTCAGCACTTCT  
 CACAATGTAACCTGCTTTAGTCATATTAACCTGAAGTTGCAGTTTAGACACATGTTGTTGGGGT  
 GTCTTTCTGGTGCCCAAACCTTTCAGGCACCTTTCAAATTTAATAAGGAACCATGTAATGGTAG  
 CAGTACCTCCCTAAAGCATTTTGAAGTAGGGGAGGTATCCATTCATAAAATGAATGTGGGTG  
 AAGCCGCCCTAAGGATTTTCTTTAATTTCTCTGGAGTAATACTGTACCATACTGGTCTTTGC  
 TTTTAGTAATAAACATCAAATTAGGTTTGGAGGGAACCTTTGATCTTCTTAAGAATTAAGTTG  
 CCAAATTATTCTGATCTCTTAAATCTCCTTTAAGTCTTTGATATATATTACTTGTATAAATG  
 GAACGCATTAGTTGTCTGCCTTTTCTTTCCATCCCTTGCCCCACCCATCCCATCTCCAACCC  
 TAGTCTTCCATTTCTCCCGCCAGTCTCCATTGAATCAATGGTGCAGGACAGAAAGCCAGTC

Table 4

AGACTAATTTCTTCTTCTTCTCGCACTTCTCCCCACTCGTCATCTTTAACTAGTGTTCACAA  
 GGATCCTCTGAAACCCTCTCTGTGCCCCAAGTACAGATCCCATTACTTCTGCTTTTCGTATCTC  
 CTCAGGCCAAAAGTGGAGGGTGCCTTATGGGCCCTCCTCATAGGTTGTCTCTGCATACACGA  
 ACCTAACCCAAATTTGCTTTGGTGCCAGAAAACTGAGCTATGTTTGAACAAAGATGTCGTG  
 CAAACTGTACTGTGAACAACAGTTGGTTTAAATATGAGGGGCAAGGAGGAGGATGCATTTT  
 AAAAGCTTGATTGATGTGTTTCTAGAGCTAAATTAAGAGGAGTTTTCAGATCAAAAACTGGTTAC  
 CATTTTTTGTGTCAGAGTGTCTGATGCGGCCACTCATTCGGCTCCCAGAAATTCCTAGACTGGG  
 TTAATAGGGTCATATTGTGAATGTCTCACTACAAAATGACTTGAGTCCAGTGAAATCTCATT  
 GGGTTTAAGAATATTTTCAAGGATCCCTAATGTTTTGATTTTTGTTTTCTGAAATTGGATTTTAT  
 TTTATTTTATCTTATAATTTTCAAGTTCATCTAAATTGTGTGTTCTGTACATGTGATGTTTGACTGT  
 ACCATTGACTGTTATGGAAGTTTCAAGCTTGTATGTCTCTCTCTACACTGTGGTGCACCTTAACT  
 TGTGGAATTTTTTATACTAAAAATGTAGAATAAAGACTATTTTTGAAGATTTGAAAAACAAAAAa  
 AAAAACTtcggaGGATCCaaTGtcgggggggaaacaagggtattgaactggcccatggtcaaaggctgtccggacCCA  
 GTttttgtcccaaggggaaatactgcggcgcccataaagagaggccgaataaattggaaaagc

&gt;203

&gt;204

NNATGTGGTTACGACCCACTGTATTGAGGTGACGCGATCCATAGGCTGTGGTGTTT  
 GTTTTCGCTGATCCACACAAACGTTGGGGCACTGTCTATTTCATGTGTTCAAGCTGAAGGCTC  
 GTTCTCGGTTGTCAATTTACAGTGTTTTTCTACGGGGTTACATTACAGGAATGTTGTAGCGAC  
 GTTTAGCCCGTGGAGTATCAACGTCTTGAGACTCCGTGTGAGACTCCCTGGTTTGTCCACA  
 ACAGTGTGTTTTAGATTCCGTACCTTTGATTAAAGAACACATCATGCCGTGAAGCCAATTTA  
 TATTCTGCAATTCCGTAGTGCATGTAATGTATTCTGCCGTCTCGTAGTGTGAAGCCATGCTTG  
 GCACATCCAGTTCTTTGATGTCTGGCTGCCTTCTGCGGGCCAAGTGTCTTGGAATTCGTT  
 GCTCCCAGAGATAGCTTGAAGTGCAGATCCCGCACAGCATTGCACTGAGCTGTGCTTGTATC  
 TGAGCCTGGACATGGCGGCCGAGGTACTCACAGTCACGCAAATTCACAGTCTGCGTGCACG  
 GCTCTCCATTCTTCTTCTTGGCTTTACAGGTTCCAGGTCAAGAGCTTCACCCATAATTAAGA  
 CCTCTGAGGATGATCGATAGATAAACACACCTCTCTGAACCATCCTTGGGCTTCATGGGG  
 TTGGCATTGAGGATCCCTACGACAGTCCCCTGCTCCGTCTTCCAGAGCGCTTTGTGAACCTC  
 TCCAAATAAGAACAAGGACACACATTGTGTCAGGTCACGAAGATCATTGAGTTTCCATATGCT  
 GAAGGTTTTTCCACTATTACACTCTGTGGCGTAACCTTCTTCAATATAACCCCAAATGTCAC  
 CCAATCTATTTCTTCCAGCTTCTCTCTGGCCATCTTTTCTTGATCTGAGACAGTCTGATCAG  
 TTTTCGCGCGGTGATGTCTTCTGTTTCTGAGGATACTCGAGCCCGCTCGAGC  
 CGCAGACCAGGAGAAGGCTTCCACACAGATGGCGATTGAGTCGTTTCTCACAGAACTTTC  
 ACTCGGGGTCCACCACATATTTGACCTCTAGTTATCCCACTAGGTTTGTCCGAGAAATCGT  
 CTGTAGGGGTTGGGAGGGTGCACCTTGTATCCTTGAAGATGAGCTTTTGGGATCTGGAGGT  
 GAAGCCTTTGGTGTTTCGAGCCACCCTCTTGGTTCTTGGTAGCGCAGGGACATCAAGCTCCG  
 CAGAAAAGCATGTTGACTCCTGAATCTCTGAACCTCCTCTCCTTAAGAGGTGGCCGGGGA  
 GACTTCTCAGGGGATTTTTGCAGACGGGCTGGGCTTGTGCTGTTTAAATTGTTGTTACTTTT  
 AGCTGCTCTTGAAGGCCCTTCATTTGCTCTTGCAAATTCCTTAATTCCTCTTGCAACTCTTCAT  
 TCGTTTTCTCTCGCCTGGGGGACAGGAGCAGGGAGGACCCTATTTTCAGTTGACTGTGATGC  
 GGGAACCTTCTTCTCATCTGTTAAGTCTCCATATCTCCAAAGAGAGTGGCCAGATTTTCTT  
 TTCGTCTCTGTCTCTCTGTTTCTCCATCATCAGCCTCTTCTGTATAAGATTACCGTCGCC  
 GTCGGCATCAAAGAGCTCATCAAATGCGTCGGGCTCGCCATTTTCCCGCGTCAAGAAGTTAT  
 TTTCTTCTGAATTACAATCCAAGGCTGACTCATTTTCTTCCAGCAGTGGGTGAGCAGAGACA  
 GATTGTCTTCTCCTCATCCATGCTGTCAAGAGGACAGTTGTGACAGGAAACTTCGAAGGAG  
 GCTCAGATGCCAGATGAGCAATGTAGAATCTTGGCCGATGCCGGGACGCCCTTCTTCGTTT  
 ACAGCTGAACCCGCCAAAATCGGACNN

&gt;205

NNATGTGGTTACGACCCACTGTATTGAGGTGACGCGATCCATAGGCTGTGGTGTTT  
 GTTTTCGCTGATCCACACAAACGTTGGGGCACTGTCTATTTCATGTGTTCAAGCTGAAGGCTC  
 GTTCTCGGTTGTCAATTTACAGTGTTTTTCTACGGGGTTACATTACAGGAATGTTGTAGCGAC  
 GTTTAGCCCGTGGAGTATCAACGTCTTGAGACTCCGTGTGAGACTCCCTGGTTTGTCCACA  
 ACAGTGTGTTTTAGATTCCGTACCTTTGATTAAAGAACACATCATGCCGTGAAGCCAATTTA  
 TATTCTGCAATTCCGTAGTGCATGTAATGTATTCTGCCGTCTCGTAGTGTGAAGCCATGCTTG  
 GCACATCCAGTTCTTTGATGTCTGGCTGCCTTCTGCGGGCCAAGTGTCTTGGAATTCGTT  
 GCTCCCAGAGATAGCTTGAAGTGCAGATCCCGCACAGCATTGCACTGAGCTGTGCTTGTATC

Table 4

TGAGCCTGGACATGGCGGCCGAGGTA CTACAGTCACGCAAATTCACAGTCTGCGTGCACG  
GCTCTCCATTCTTCTTGGCTTTACAGGTTCCAGGTCAAGAGCTTCACCCATAATTAAGA  
CCTTCTGAGGATGATCGATAGATAAACACACCTCCTCTGAACCATCCTTGGGCTTCATGGGG  
TTGGCATTGAGGATCCCTACGACAGTCCCCTGCTCCGTCTTCCAGAGCGCTTTGTGAAC TTC  
TCCAAATAAGAACAAGGACACACATTGTGTCAAGTCAAGATCATTAGTTTCCATATGCT  
GAAGGTTTTTCCACTATTCACACTCTGTGGCGTAACCTTCTTCAATATAACCCCAAATGTCAC  
CCAATCTATTTCTTCCAGCTTCTCTCTGGCCATCTTTTCTTGATCTGAGACAGTCTGATCAG  
TTTTCGGCCGGTCATGTGTCTTCGTTTCAATTTCTCTGGAGGATACTCGAGCCCGCCTCGAGC  
CGCAGACCAGGAGAAGGCTTCCACACAGATGGCGATTGAGTCGTTTCTCACAGAACTTTC  
ACTCGGGGTCCACCACATATTTGACCTCTAGTTATCCCACTAGGTTTGTTCGAGAAATCGT  
CTGTAGGGGTTGGGAGGGTGCACCTTGTATCCTTGAAGATGAGCTTTTGGGATCTGGAGGT  
GAAGCCTTTGGTGTTGAGCCACCCTCTTGGTCTTGGTAGCGCAGGGACATCAAGCTCCG  
CAGAAAAGCATGTTGACTCCTGAATTTCTCTGAACCTCCTCTCCTTAAGAGGTGGCCGGGGA  
GACTTCTCAGGGGATTTTTGCAGACGGGCTGGGCTTGCTGTCTGTTAATTGTTGTTACTTTT  
AGCTGCTCTTGAAGGCCTTCATTTGCTCTTGCAAATTCCTTAATTCCTCTTGCAACTCTTCAT  
TCGTTTTCTCTCGCCTGGGGGCAGGAGCAGGGAGGACCCTATTTTCAGTTGACTGTGATGC  
GGGAACCTTCTTCTCATCTGTTAAGTCTCCATATCTCCAAAGAGAGTGGCCAGATTTTCTT  
TTCGTCTCTGTCTCTCCTGTTTCTCCATCATCAGCCTCTTCTGTATAAGATTACCGTCGCC  
GTCGGCATCAAAGAGCTCATCAAATGCGTCGGGCTCGCCATTTTCCCGCGTCAAGAAGTTAT  
TTTCTTCTGAATTACAATCCAAGGCTGACTCATTTTCTTCCAGCAGTGCGGTGAGCAGAGACA  
GATTGTCTTCTCCTCATCCATGCTGTCAAGAGGACAGTTGTGACAGGAACTTCGAAGGAG  
GCTCAGATGCCAGATGAGCAATGTAGAATCTTGGCCGATGCCGGGACGCCTTCTTCGTT  
ACAGCTGAACCCGCCAAAATCGGACNN

&gt;206

NNATGTGGTTACGACCCACTGTATTGAGGTGACGCGATCCATAGGCTGTGGTGTTT  
GTTTTCGCTGATCCACACAAACGTTGGGGCACTGTCTATTTCATGTGTTCAAGCTGAAGGCTC  
GTTCTCGGTTGTCATTTTACAGTGTTTTCTACGGGGTTACATTACAGGAATGTTGTAGCGAC  
GTTTAGCCCGTGAAGTATCAACGTCTTGAGACTCCGTGTGAGACTCCGTGGTTGTTCACACA  
ACAGTGTGTTTTAGATTCCGTACCTTTGATTAAAGGAACACATCATGCCGTGAAGCCAATTTA  
TATTCTGCAATTCGTAAGTGCATGTAATGTATTCTGCCGTCTCGTAGTGTGAAGCCATGCTTG  
GCACATCCAGTTCTTTGATGTCTGGCTGCCTTCTGCGGGCCAAGTGTCTTGTGAATTCGTT  
GCTCCCAGAGATAGCTTGAAGTGCAGATCCCGCACAGCATTGCACTGAGCTGTCTGTTGTATC  
TGAGCCTGGACATGGCGGCCGAGGTA CTACAGTCACGCAAATTCACAGTCTGCTGATGCAG  
GCTCTCCATTCTTCTTCTTGGCTTTACAGGTTCCAGGTCAAGAGCTTCACCCATAATTAAGA  
CCTTCTGAGGATGATCGATAGATAAACACACCTCCTCTGAACCATCCTTGGGCTTCATGGGG  
TTGGCATTGAGGATCCCTACGACAGTCCCCTGCTCCGTCTTCCAGAGCGCTTTGTGAAC TTC  
TCCAAATAAGAACAAGGACACACATTGTGTCAAGTCAAGATCATTAGTTTCCATATGCT  
GAAGGTTTTTCCACTATTCACACTCTGTGGCGTAACCTTCTTCAATATAACCCCAAATGTCAC  
CCAATCTATTTCTTCCAGCTTCTCTGCCCATCTTTTCTTGATCTGAGACAGTCTGATCAG  
TTTTCGGCCGGTCATGTGTCTTCGTTTCAATTTCTCTGGAGGATACTCGAGCCCGCCTCGAGC  
CGCAGACCAGGAGAAGGCTTCCACACAGATGGCGATTGAGTCGTTTCTCACAGAACTTTC  
ACTCGGGGTCCACCACATATTTGACCTCTAGTTATCCCACTAGGTTTGTTCGAGAAATCGT  
CTGTAGGGGTTGGGAGGGTGCACCTTGTATCCTTGAAGATGAGCTTTTGGGATCTGGAGGT  
GAAGCCTTTGGTGTTGAGCCACCCTCTTGGTTCTTGGTAGCGCAGGGACATCAAGCTCCG  
CAGAAAAGCATGTTGACTCCTGAATTTCTCTGAACCTCCTCTCCTTAAGAGGTGGCCGGGGA  
GACTTCTCAGGGGATTTTTGCAGACGGGCTGGGCTTGCTGTCTGTTAATTGTTGTTACTTTT  
AGCTGCTCTTGAAGGCCTTCATTTGCTCTTGCAAATTCCTTAATTCCTCTTGCAACTCTTCAT  
TCGTTTTCTCTCGCCTGGGGGCAGGAGCAGGGAGGACCCTATTTTCAGTTGACTGTGATGC  
GGGAACCTTCTTCTCATCTGTTAAGTCTCCATATCTCCAAAGAGAGTGGCCAGATTTTCTT  
TTCGTCTCTTGTCTCTCCTGTTTCTCCATCATCAGCCTCTTCTGTATAAGATTACCGTCGCC  
GTCGGCATCAAAGAGCTCATCAAATGCGTCGGGCTCGCCATTTTCCCGCGTCAAGAAGTTAT  
TTTCTTCTGAATTACAATCCAAGGCTGACTCATTTTCTTCCAGCAGTGCGGTGAGCAGAGACA  
GATTGTCTTCTCCTCATCCATGCTGTCAAGAGGACAGTTGTGACAGGAACTTCGAAGGAG  
GCTCAGATGCCAGATGAGCAATGTAGAATCTTGGCCGATGCCGGGACGCCTTCTTCGTT  
ACAGCTGAACCCGCCAAAATCGGACNN

Table 4

&gt;207

CGCGGTGGCGGCCGCGCCGGCAGGTACATGGTTCTTCCTCAGAAAGTGGTTCTTCCT  
TAATGTGTTTCTTTTACCCCTTTTCTTCTTCTTCTTACAGATGTTTCTTCTTCTGCCACT  
TTTTCTTCTTCTTCTTCTTCAACTGAATAGGGTAAGTGTAAAGGCACAACAAATTAACACTGTA  
TCAGATCTCATTCTTCCAAAAACGTTTGAGTCCTAGTTTTTTTTCTGTCACTTCTCATCAACTAC  
CCAATGTTTGTTTTGTTTATTTTATAATTGGGAAGGTTCTCCAAGGCCTACCACTAACTTTAAC  
GAATGATATAGATAGAGCTCAGAGCAATCTTCTCACGATCATGAAGTCATGTATAAAAAATCAG  
GATTAACAAACAAAGGTCATCTGATCTCCAATCATTATTGGGAAGAAAGTCAATTATATTAGAAAT  
GGTTAAGAGCTTGCACCTCTGAAGTCAGACGGCCTGGGTTTAACTACCTGCTGCAACCCTGA  
AAAATTGTATTTACCCTTGGTGAAGCTCCCTATCTATAAACTTAAGAATGTCTTATCTTACTG  
GACTGTTACTGATTTAAAAAGATGATGCATAGAAAGCACTAAGTATAATGCTTAGCACACATT  
ACAATAAGGACTCAACACATAGCTATCATTAGACATTCAGTGACCAGCTGGGTGCAGTGGCT  
CACGCCTGTAATCTCAGCACTTTGGGAGGCTGAGGCGGGAGGATCACTTGAGGTCAGGATA  
TCAAGACCAGCCTGGCCAACATGGTGAAATCCTGTATCTAATAAAAAATACAAAAAGTTAGCT  
AGGCATGGTGGTGCATGCCTGTAATCCAGTTATTGAGGAGGCTGAAGCACGAGAATTGCT  
TGAACCCAGGAGGCGGAGGCTGCAGTCAGCCAAGATCACGCCACTGCACTTCAGCCTGGG  
CGACAGAGGGAGACTCTGTCTCANNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN

&gt;208

CGCGGTGGCGGCCGCGCCGGCAGGTACATGGTTCTTCCTCAGAAAGTGGTTCTTCCT  
TAATGTGTTTCTTTTACCCCTTTTCTTCTTCTTCTTACAGATGTTTCTTCTTCTTCTGCCACT  
TTTTCTTCTTCTTCTTCTTCAACTGAATAGGGTAAGTGTAAAGGCACAACAAATTAACACTGTA  
TCAGATCTCATTCTTCCAAAAACGTTTGAGTCCTAGTTTTTTTTCTGTCACTTCTCATCAACTAC  
CCAATGTTTGTTTTGTTTATTTTATAATTGGGAAGGTTCTCCAAGGCCTACCACTAACTTTAAC  
GAATGATATAGATAGAGCTCAGAGCAATCTTCTCACGATCATGAAGTCATGTATAAAAAATCAG  
GATTAACAAACAAAGGTCATCTGATCTCCAATCATTATTGGGAAGAAAGTCAATTATATTAGAAAT  
GGTTAAGAGCTTGCACCTCTGAAGTCAGACGGCCTGGGTTTAACTACCTGCTGCAACCCTGA  
AAAATTGTATTTACCCTTGGTGAAGCTCCCTATCTATAAACTTAAGAATGTCTTATCTTACTG  
GACTGTTACTGATTTAAAAAGATGATGCATAGAAAGCACTAAGTATAATGCTTAGCACACATT  
ACAATAAGGACTCAACACATAGCTATCATTAGACATTCAGTGACCAGCTGGGTGCAGTGGCT  
CACGCCTGTAATCTCAGCACTTTGGGAGGCTGAGGCGGGAGGATCACTTGAGGTCAGGATA  
TCAAGACCAGCCTGGCCAACATGGTGAAATCCTGTATCTAATAAAAAATACAAAAAGTTAGCT  
AGGCATGGTGGTGCATGCCTGTAATCCAGTTATTGAGGAGGCTGAAGCACGAGAATTGCT  
TGAACCCAGGAGGCGGAGGCTGCAGTCAGCCAAGATCACGCCACTGCACTTCAGCCTGGG  
CGACAGAGGGAGACTCTGTCTCANNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN

&gt;209

NNGTGCGCCATTGTGACCCGAGAATTTAATATACTTGTGCCCCGCGCGTGTTTTGTTA  
ACCGTCCGCCCCGAGTGTCCCCTCAATTTCTACCCCTCGCCCCCTTAACCCAAAGCTAAATCCA  
CCATCTGGTATTCTCCCCTAGAGCACCAGATGACCATCTGAAGCTGGACAAGTGTCTCTAAC  
AATAAACATTACTGTTTACAAAACAAAAGCACAAACATAATTATGGAATAAATAAAAAACAA  
GGGACAAACAGCCAACTGACTCTACCCACTTGGTGAGAAGTGATATACTTCAACTATTTTTTT  
AATGCTTCTGAAAGTTTCTTGGCCACAGAGGACTAGGGTGCAATCATTCCCTGTGTTAGTG  
AGTTGGGTTTAAATGCAGCTTCAAAATTAGGGTAAAGGGACTTGGTGAAATGTTTACATTAAT  
ATTTCACTCTACCCATTCTTCAGGAAAAAAGGTGAGCTCAGCAAGGCTGGATGCCATTAAG  
AGATATTTACTGTTTTCTTTTCTATAGCTAAAAAAGCAAACTTTACACGAAGAAGCTCTTGAT  
TAAGGAAATTTCAATAGATTCAATTTATAAAATTTTAAACATTTGGCACAGCAAAATTTGGAA  
AAAATGGGGGAGAAAAAATAGGTCTGGTTGTTGTCCCCCTTTTTCCACCTGCTGCTGGACAG  
TGATGAGATGCTCACAGAAGAAAAAGGCCTGGCTTTGTACCAGGCTGGCGACAGGTGCTAC  
CAGGAGTGGGCTGAGGGGAGAAAAATCTCCCACTTTTTGGCCAGGCAATGTCAACG  
ACTTCCACATTCCCTGGCCCACTTCTGAGCAACCCCAAGGTTGCGCTCTGTATAAGGACCCT  
CCCCCTCCAACCCCAACCCCAAGAGTGCAAGTCAAAATCAACCAACAATTTACTGGTGGAATG  
GCAATCAAAGGAAACAGTTAAACACCAAAACAATTTCTTAAAGCCAAAAAATATTTTTCATGGA  
GTTGAACATTTTTCGAGTGTGTTTTTTCAAGTGTAAGGAGCAGTGACATTTTGTCAAACAGAA  
GCAGCATCTAGGAATTCTGGCACTTGGGTTCTAGGGGGTTACAGGTATGCATCATGGATTCT  
TCTCCCTCGTATTTAAAAAGGCCTCGTGTTTCTATTCCTGAGTTCATACCAACACCTGTAGC  
TCTCCCTCTAGCGGACAGTGGGTGGCCAGCCAGCCTCCCTGGTTAGATTGGGCAATGCCA  
AGCAGACATCCCTCATTACCTGCTGGGCTTGCTTTCTGATTGAGAGGTAAGTCGAAGTGCA

Table 4

GAGAAAGAACTTACAAAAGCACAAACCACCAAGGCAGCCTGAACGGGGAGCCCTGTGCAG  
ACTGAGTTGCTGGAGACTACCCTCTCAGTCCCATTCCTGGGGAAAGGTAGGTCACTCATGG  
AATTTGAATCAAACATGGGGGAGGACACCTGCCAAGCAATAGTATGATGGACTCAAGTCATC  
CCAGGCCATCTACTGTCTCCCTCACCTGCCCTAACCTTTTCTGAGTCCCTCCCTCTCTTGTG  
CAAGCACTGTAGTTTAAAAAGGAAAAAACACCCCCACCATTAAAGACAACCTTCAAATGTT  
ACTCAGTATATAAAGTTTGCTTAGGCTAAGGTGGAGTCAGAAATGTCTCTAATTGTAGACACC  
ATCTCTGTGCCACCCCTTCTCTCATCGGATATGGAGTGATTTCTTCTCTCGCTGCTGCGACG  
CAGATCTGAGCCACAGTCAGGTACCAATGTACACGACATAGGCACATGTGCAAACACAAAGA  
AGGTGGGCTGCTGCTTCTTCTCTGCCCCAGTCCAGGCTCCTTTGCTTCACGTAAGATT  
AACACTTTCCCATTCCTCTGAAGTTGCTGGAAGGACATTTCCAGGAAGAAACAATTCCTCA  
CTGCCATATAAACTGTAGTCTCATGTGGGATAGTCAATTGAACATGAGAATCAGAAACAATCTG  
GGCAAATGGGTATGGCAAGAATGGGAACACCACAACAGGACAGATGCCAACTCTCAATCAT  
GCCAGGCCTTTTGGCATCTGGGTGCCTTCTGTGTCTTCTTCCACCTCTTCTTCAGTCTCAA  
CATCCACTTGTACCCCCAGCTACCTCCCATGTTTCCAGGTATCATTGGCTCTTAACCTCCACA  
AGCCTGCCTTTTGGCTACCCATCCCAACAATATCAAGAGGGAATGACTAAGTATCAGCTAGA  
AACTTAGCCATGTCTCAACATTCCTGGATTATCTGAAAAGCTGTCGATGCCCTTTTACAGGTT  
TATGGTGACAGACCCGTATCATCTTAAAGTATGTTTCATAGTTAAGGCTTGACTTAAGAAAAATA  
AGAGAACCAGACATAATGGAAGACCTCTTCAATAATGTTGTCATGCCTCTCAGTGAACGTG  
CTCACAGTCACACTTGGTTTGGCTCCCCAAACCCACAATAGAAAAGGAAAAAATGAGTATTTT  
GTTTTTCATCTGTTTTGTATTTAAAGGCATTGGGTTACTTCTCCTGCCCTCTTTTCTTCCCTG  
AACAAGAGTTTACAACCTCTCATGGCTTCTTAATAGGTGAAGTAGGTGAAAAGCTGAGAAAG  
CTCACAGCAGGGTTTGGCGTCCCAACTATGCAGCTGAGAGGTGCGCCAGCTCCTGTGCTTCC  
CCAGCCCCACTATAATTGGCAGTATGTTTGTTCATGTTTCTGAAAACATTTTCTTTAAAAAG  
GAAAAGAAAAAATGCCAAACAACACCAACCAAAAAAAAAAAAAAAAAAAAAAGGAAGAA  
GACAAAGAGCAACATCCAAACATTCCTCAAGCCCCACCCAGTAAGTCTGAGATTATCTTAT  
TCCTTCCCTGAAATAATTATAAAGAAGCATTTCAGGCAAAATACTTAGTATTAATGGTCTCTTA  
CTGCTCAACCTCCCAACCATGCCCTTTTCCCTTTTATGTGTATCTTGGAGTAAAATAAATT  
CATTAATGGCTTTCCACATACAAATACAATAGAAAAGAAAGAGTCTGGAACCTGACTATCAT  
GGGACCAAAAAGTATCTTGGCCCTTGGGAGTTTCTTGTGAGAAAGTATAAGCCTCAACAG  
GAAATAGAGGCTCCTTCTCCTTTGAGTTCAATACCCTCCCTGTGTCCTACTCACCAGGAAAAAT  
AAGTGTGTTTATATCCCACCTAATTTACAACAGAAGATAACCCCATCCCATCCCCAAAACATA  
AAAATACAAGTCTATGCCCATAGAACN

&gt;210

NNATGTGGTTACGACCCACTGTATTGAGGTGACGCGATCCATAGGCTGTGGTGTTT  
GTTTTCGCTGATCCACACAAACGTTGGGGCACTGTCTATTATGTGTTCAAGCTGAAGGCTC  
GTTCTCGGTTGTCAATTTACAGTGTTTTTCTACGGGGTTACATTACAGGAATGTTGTAGCGAC  
GTTTAGCCCGTGGAGTATCAACGTCTTGAGACTCCGTGTGAGACTCCCTGGTTTGTTCACA  
ACAGTGTGTTTTTAGATTCCGTACCTTTGATTAAGGAACACATCATGCCGTGAAGCCAATTTA  
TATTCTGCAATTCGTAGTGCATGTAATGTATTCTGCCGTCTCGTAGTGTGAAGCCATGCTTG  
GCACATCCAGTTCTTTGATGTCTGGCTGCCTTCTGCGGGCCAAGTGTCTTGTGGAATTCGTT  
GCTCCCAGAGATAGCTTGAAGTGCAGATCCCGCACAGCATTGCACTGAGCTGTGCTGTGATC  
TGAGCCTGGACATGGCGGCCGAGGTACTCACAGTCACGCAAATTCACAGTCTGCGTGCACG  
GCTCTCCATTCTTCTTCTTGGCTTTACAGGTTCCAGGTCAAGAGCTTCACCCATAATTAAGA  
CCTTCTGAGGATGATCGATAGATAAACACACCTCCTCTGAACCATCCTTGGGCTTCATGGGG  
TTGGCATTGAGGATCCCTACGACAGTCCCTGCTCCGTCTTCCAGAGCGCTTTGTGAAGTTC  
TCCAAATAAGAACAAAGGACACACATTGTGTGAGGTCACGAAGATCATTCAAGTTCCATATGCT  
GAAGGTTTTTCCACTATTACACTCTGTGGCGTAACCTTCTTCAATATAACCCCAAATGTCAC  
CCAATCTATTTCTTCCAGCTTCTCTCTGGCCATCTTTTCTTCTGATCTGAGACAGTCTGATCAG  
TTTTCGGCCGGTCAATGTCTTCTGTTTCAATTTCTCTGGAGGATACTCGAGCCCGCTCGAGC  
CGCAGACCAGGAGAAGGCTTCCACACAGATGGCGATTGAGTCGTTTCTTCCACAGAACTTTC  
ACTCGGGGTCCACCACATATTTGACCTCTAGTTATCCCACTAGGTTTGTTCGAGAAATCGT  
CTGTAGGGGTTGGAGGGTGCACTTGTCTCATCTTGAAGATGAGCTTTTGGGATCTGGAGGT  
GAAGCCTTTGGTGTTCGAGCCACCCTCTTGGTTCTTGGTAGCGCAGGGACATCAAGCTCCG  
CAGAAAAGCATGTTGACTCCTGAATTCTCTGAAGTCTCCTCTCCTTAAGAGGTGGCCGGGGA  
GACTTCTCAGGGGATTTTTGCAGACGGGCTGGGCTTGTGTCTGTTTAATTGTTGTTACTTTT  
AGCTGCTCTGTAAGGCCTTCATTTGCTCTTGCAAATTCCTTAATTCCTTGAACCTCTTCAT

Table 4

TCGTTTTCTCTCGCCTGGGGGCAGGAGCAGGGAGGACCCTATTTTCAGTTGACTGTGATGC  
GGGAACCTTCTTCTCATCTGTAAAGTCCTCCATATCTCCAAAGAGAGTGGCCAGATTTTCCTT  
TTCGTCTCTTGTCTCTCCTGTTTCTCCATCATCAGCCTCTTCTGTATAAGATTACCCGTCGCC  
GTCGGCATCAAAGAGCTCATCAAATGCGTCGGGCTCGCCATTTTCCCGCGTCAAGAAGTTAT  
TTTCTTCTGAATTACAATCCAAGGCTGACTCATTTTCTTCCAGCAGTGCGGTGAGCAGAGACA  
GATTGTCTTCTCCTCATCCATGCTGTCAAGAGGACAGTTGTGACAGGAACTTCGAAGGAG  
GCTCAGATGCCAGATGAGCAATGTAGAATCTTGCCGATGCCGGGACGCCCTTCTTCGTT  
ACAGCTGAACCCGCCAAAATCGGACNN

&gt;211

NNATGTGGTTACGACCCACTGTATTGAGGTGACGCGATCCATAGGCTGTGGTGTTT  
GTTTTCGCTGATCCACACAAACGTTGGGGCACTGTCTATTCATGTGTTCAAGCTGAAGGCTC  
GTTCTCGGTTGTCAATTTACAGTGTTTTCTACGGGGTTACATTACAGGAATGTTGTAGCGAC  
GTTTAGCCCGTGGAGTATCAACGTTCTGAGACTCCGTGTGAGACTCCCTGTTTGTTCACA  
ACAGTGTGTTTTAGATTCCGTACCTTTGATTAAGGAACACATCATGCCGTGAAGCCAATTTA  
TATTCTGCAATTCGTAGTGCATGTAATGTATTCTGCCGTCTCGTAGTGTGAAGCCATGCTTG  
GCACATCCAGTTCTTTGATGTCTGGCTGCCCTTCTGCGGGCCAAGTGTCTGTGGAATTCGTT  
GCTCCCAGAGATAGCTTGAAGTGCAGATCCCGCACAGCATTGCACTGAGCTGTGCTGTATC  
TGAGCCTGGACATGGCGGCCGAGGTACTCACAGTCACGCAAAATTCAGAGTCTGCGTGACG  
GCTCTCCATTCTTCTTCTTGGCTTTACAGGTTCCAGGTCAAGAGCTTCACCCATAATTAAGA  
CCTTCTGAGGATGATCGATAGATAAACACACCTCCTCTGAACCATCCTTGGGCTTCATGGGG  
TTGGCATTGAGGATCCCTACGACAGTCCCCTGCTCCGTCTTCCAGAGCGCTTTGTGAATTC  
TCCAAATAAGAACAAAGGACACACATTGTGTGAGGTCACGAAGATCATTAGTTTCCATATGCT  
GAAGGTTTTTCCACTATTCACACTCTGTGGCGTAACCTTCTTCAATATAACCCCAAATGTCAC  
CCAATCTATTTCTTCCAGCTTCTCTCTGGCCATCTTTTCTTGATCTGAGACAGTCTGATCAG  
TTTTCGGCCGGTCATGTGTCTTCGTTTCTCTGAGGATACTCGAGCCCGCCTCGAGC  
CGCAGACCAGGAGAAGGCTTCCACACAGATGGCGATTGAGTCGTTTCTTCCAGAACTTTC  
ACTCGGGGTCCACCACATATTTGACCTCTAGTTATCCCACTAGGTTTGTTCGAGAAATCGT  
CTGTAGGGGTTGGGAGGGTGCACTTGTCACTCTTGAAGATGAGCTTTTGGGATCTGGAGGT  
GAAGCCTTTGGTGTTCGAGCCACCCTCTTGGTTCTTGGTAGCGCAGGGACATCAAGCTCCG  
CAGAAAAGCATGTTGACTCCTGAATTCTCTGAACTCTCCTCTCCTTAAGAGGTGGCCGGGGA  
GACTTCTCAGGGGATTTTTGCAGACGGGCTGGGCTTGCTGTCTGTTAATTGTTGTTACTTTT  
AGCTGCTCTTGAAGGCCCTTCATTTGCTCTTGCAAATTCCTTAATTCCTCTTGCAACTCTTCAT  
TCGTTTTCTCTCGCCTGGGGGCAGGAGCAGGAGGACCCTATTTTCAGTTGACTGTGATGC  
GGGAACCTTCTTCTCATCTGTAAAGTCCTCCATATCTCCAAAGAGAGTGGCCAGATTTTCTT  
TTCGTCTCTTGTCTCTCCTGTTTCTCCATCATCAGCCTCTTCTGTATAAGATTACCCGTCGCC  
GTCGGCATCAAAGAGCTCATCAAATGCGTCGGGCTCGCCATTTTCCCGCGTCAAGAAGTTAT  
TTTCTTCTGAATTACAATCCAAGGCTGACTCATTTTCTTCCAGCAGTGCGGTGAGCAGAGACA  
GATTGTCTTCTCCTCATCCATGCTGTCAAGAGGACAGTTGTGACAGGAACTTCGAAGGAG  
GCTCAGATGCCAGATGAGCAATGTAGAATCTTGCCGATGCCGGGACGCCCTTCTTCGTT  
ACAGCTGAACCCGCCAAAATCGGACNN

&gt;212

NNNCTCGCTCTGTCACTCAGGCTGGAGTACAGTGGCGTGATCATAGCTCACTGCGG  
CCTCGGTCTCCTAGGGTCAGGTGATCCTCCCATCTTAGCCTCCTGAGTAGCTGGGCATGTG  
CCACCACACCTGGCTACTTTTTAAATTTTTTTTTTCTGTAGAGACGAGGTCTTCTATGCTGT  
TCAGGCTGAACCTCATGGGTTTATTGGGGATGGCTAATGGATGACATTGGCGGTGGTCTTG  
ATACCAGATAAGCCCTCAGTGTGAAGCAGCTCTTATTTTTCTTGTCTTGAGATTGCTCTGGA  
ATGGAAATTAGGCTTTTTTGAAGGTGTGACCCTTTTTGTTCAATTTCTCAGCAGTTACTTTTTA  
TTTTTAAATGTTTGACACACAGTCTCTGATAAATGATCATTACCAATCACCATTACTCTCC  
TTGCTCTGTTAAGTGTGACACTGTCCCTTTGAGAATCTGGCGACAGCTATGTATCCCATCAC  
CACACACCCCAAAAAAAAAATTTATGTCTGGTTCCAGGAGTTACCTTTTATGAGAAGTCCATC  
TGTGAAGACCCTGGATGTTCAAGAGAACTTCTGGGAAAACCCTGAAAGAAAATAAAGAGGCC  
GGGCCCGGTGGCTCATGCTTGTGGTCCCGGCACTTTGGGAGGCTGAGGTGGGCAGATAAG  
CTGAGGTGAGGAGTTCAGACCAGCCTGGCCAACGTGGCGAAANNN

&gt;213

&gt;214

CGCGGTGGCGGCCGAGGTACATGCCTACAGATAGTCCCAGCTACTCGGGAGGCTG



Table 4

AGGCAGGAGAATCGCTTGAACCCAAGAGGCGTAAGTTGCAGTGAGCCGAGATCATGGCACT  
GCACTCCAGCCTGGGTGACAGAGAGAGACTCCATAAGAAAAAAGAAAAAAGGGGGGCA  
AAAAGAAACAGATGAAACCAATGTGAATAATTTATTTAACACAATATACCTAACATATTTTAT  
TTCAATATCTAACCAGTATAAAAAATTTACTTGTTCCTCTAGAGATAGTAAGCTCCTTAAG  
TAAACAGAAGTAATACCTGATTAATTAGAATTCACCAACCCTCATCAAGTGTGTGCTTATATAG  
AAGAAACCCAGTAAATGTTTGTTGATTGAAAGATATTAATACTCTTGCTTGGATGAGAGTGAG  
GAAAAAGGTATTAGTATTGGCTTTTCAACAACGCCTTGT

&gt;215

&gt;216

&gt;217

GCGGCCGAGGTACTATCAAACAACATGATACAATTTAAATGTGTGCATAGCAACTACT  
AGTGGTCACCTGAAATCCATTTCCCTCCTTCACAGTAAGAGTTTGTAGCTGAATGAGTGGC  
CACTCATAGAGAGATTGCATTTCTGGCTTCCCTTGACCCATAGGTAGCCATGGGACAAAGT  
TCTAACCCAGGGGGGGTCCAATCTTTGGCTTCCCTGGGACACACTGGAAGAAGAAGT  
GTCTTGGGCCACACATAAAATACACTGGCATCAAGGATAGCTGATGAGCAAAAAAAAAAAAA  
AAAAAAAAAGT

&gt;218

NATACTGTTCAAAAATTGGCCTCCGACCACAAAGACATCCACAGCAGTGTTTCTCGG  
GTTGGAAAAGCCATTGGATAAGGATTCACCTTAAGAGATTGGAACTCTTCCCTTTGGAATT  
GCTCTTCCCATCAGAGATGCAATTTATCACTGTCGTGAACAGCCTGCCTCAGACTGGCCAGA  
AGCTGTCTGTCTCTTGATTGGACGTCAGGATCTTCCAAAGCAGGCCTGCGAAGGAACTTAC  
CCAAAGGGAAGTCTGTGCTCTCATCAGATGTTCCCTCAGGAACAGAACTGAGGAGGAAGAT  
GACGGCATGAATGACATGAATCACGAGGTCATGTCAATTAATATGGAGTGAAGATTTAAGGGT  
GCAGGATGTGCGAAGGCTTCTTCAGAGTGCGCATCCTGTCCGTGTCAATGTAGTGCAGTAC  
CCAGAGCTCAGTGACCACGAGTTCATCGAGGAAAAGGAAAACAGATTGCTCCAATTGTGTCA  
GCGAACTATGGCTCTTCTGTAGGACGAGGAATGTTTACCTTGTTTTCGTACCATCCTGTTT  
CAACAGAGCCATTGCCTATTCCTAAATTGAATCTGACTGGGCGTGCCCTCCTCGGAACACA  
ACAGTAGACCTTAATAGTGGAACATCGATGTGCCTCCCAACATGACAAGCTGGGCCAGCTT  
TCATAATGGTGTGGCTGCTGGCCTGAAGATAGCTCCTGCCTCCAGATCGACTCAGCTTGG  
ATTGTTTACAATAAGCCCAAGCATGCTGAGTTGGCCAATGAGTATGCTGGCTTTCTCATGGC  
TCTGGGTTTGAATGGGCACCTTACCAAGCTGGCGACTCTCAATATCCATGACTACTTGACCA  
AGGGCCATGAAATGACAAGCATTGGACTGCTACTTGGTGTTTCTGCTGCAAACTAGGCACC  
ATGGATATGCTATTACTCGGCTTCTTAGCATTGCGATTCTGCTCTTACCCCCAACGTCC  
ACAGAGCTGGATGTTCTCACAATGTCCAAGTGGCTGCAGTGGTTGGCATTGGCCTTGATA  
TCAAGGGACAGCTCACAGACATACTGCAGAAGTCCTGTTGGCTGAGATAGGACGGCCTCCT  
GGTCCTGAAATGGAATACTGCACTGACAGAAAGTCATACTCCTTAGCTGCTGGCTTGGCCCT  
GGGCATGGTCTGCTTGGGGCATGGCAGCAATTTGATAGGTATGTCTGATCTCAATGTGCCT  
GAGCAGCTCTATCAGTACATGGTTGGAGGACATAGGCGCTTTCAAACAGGAATGCATAGGG  
AGAAACATAAATCACCAAGTTATCAAATCAAAGAAGGAGATACCATAAATGTGGATGTGACTT  
GTCCAGGTGCTACTCTAGCTTTGGCTATGATCTACTTAAAAACCAATAACAGTGTCTTCTAGG  
AAGCCCAGACACATGGAGAAGTTCTGAGTGTTTTGGCCGATAGTCCAGATGAGGTTCCAG  
CAACAGCTGGGATCACCCATGAGATGTGAGTGAGGAAGGCTTTGAGATGGTTTCAGCCCTA  
GCCACCACTGACCTCATAAGAGACCACAAGAATGAGAATCACCTGGCCAAGCCAGCAGAC  
CTTCAGAATTCAGAAATAAATAATTCTATTTTANNNNNNNNNNNNNNNNNNNNNNNNNNNN  
NNNNN

&gt;219

&gt;220

NCCGCCGCGAGCGGGGAATCTGCAGTAGGTCTGCCGGCGATGGAGTGGTGGGCTA  
GCTCGCCGCTTCGGCTCTGGCTGCTGTTGTTCTCCTGCCCTCAGCGCAGGGCCGCCAGA  
AGGAGTCAGGTTCAAATGGAAGTATTTATTGACCAAATTAACAGGTCTTTGGAGAATTACG  
AACCATGTTCAAGTCAAACCTGCAGCTGCTACCATGGTGTGCATAGAAGAGGATCTAACTCCT  
TTCCGAGGAGGCATCTCCAGGAAGATGATGGCAGAGGTAGTCAGACGGAAGCTAGGGACC  
CACTATCAGATCACTAAGAACAGACTGTACCGGGAATGACTGCATGTTCCCCTCAAGGT  
TAGTGGTGTTGAGCACTTTATTTGGAAGTGCTCGGGCGTCTCCCTGACATGGAGATGGTGA  
TCAATGTACGAGATTATCCTCAGGTTCTTAAATGGATGGAGCCTGCCATCCAGTCTTCTCC  
TTCAGTAAGACATCAGAGTACCATGATATCATGTATCCTGCTTGGACATTTTGGGAAGGGG

Table 4

ACCTGCTGTTTGGCCAATTTATCCTACAGGTCTTGGACGGTGGGACCTCTTCAGAGAAGATC  
TGGTAAGGTCAGCAGCACAGTGGCCATGGAAAAAGAAAACTCTACAGCATATTTCCGAGGA  
TCAAGGACAAGTCCAGAACGAGATCCTCTCATTCTTCTGTCTCGGAAAAACCCAAAACCTTGTT  
GATGCAGAATACACCAAAAACCAGGCCTGGAAATCTATGAAAGATACCTTAGGAAAGCCAGC  
TGCTAAGGATGTCCATCTTGTGGATCACTGCAAATACAAGTATCTGTTTAATTTTCGAGGCGT  
AGCTGCAAGTTTCCGGTTTAAACACCTCTTCTGTGTGGCTCACTTGTTTTCCATGTTGGTGA  
TGAGTGGCTAGAATTCTTCTATCCACAGCTGAAGCCATGGGTTCACTATATCCCAGTCAAAA  
CAGATCTCTCCAATGTCCAAGAGCTGTTACAATTTGTAAAAGCAAATGATGATGTAGCTCAAG  
AGATTGCTGAAAGGGGAAGCCAGTTTATTAGGAACCATTTGCAGATGGATGACATCACCTGT  
TACTGGGAGAACCTCTTGAGTGAATACTCTAAATTCCTGTCTTATAATGTAACGAGAAGGAAA  
GGTTATGATCAAATTATTTCCCAAATGTTGAAAACCTGAACTATAGTAGTCATCATAGGACCAT  
AGTCTCTTTGTGGCAACAGATCTCAGATATCCTACGGTGAGAAGCTTACCATAAGCTTGGC  
ACCTATACCTTGAATATCTGCTATCAAGCCAAATACCTGGTTTTCTTATCATGCTGCACCCA  
GAGCAACTCTTGAGAAAGATTTAAATGTGTCTAATACACTGATATGAAGCAGTTCAACTTTT  
TGGATGAATAAGGACCAGAAATCGTGAGATGTGGATTTTGAACCCAACTCTACCTTTTCAATTT  
CTTAAGACCAATCACAGCTTGTGCCTCAGATCATCCACCTGTGTGAGTCCATCACTGTGAAA  
TTGACTGTGTCCATGTGATGATGCCCTTTGTCCCATTTTGGAGCAGAAAATTCGTCATTTG  
GAAGTAGTACAATCATTGCTGGAATTGTGAAATTTCAAGGCGTGATCTCTGCTCACTTTAT  
TTAATGTAGGAAACCTATGGGGTTTATGAAAAATACCTGGGGATCATTCTCTGAATGGTCT  
AAGGAAGCGGTAGCCATGCCATGCAATGATGTAGGAGTTCTCTTTTGTAAAACCATAAACTC  
TGTTACTCAGGAGGTTTCTATAATGCCACATAGAAAGAGGCCAATTGCATGAGTAATTATTGC  
AATTGGATTTCAAGGTTCCCTTTTGTGCCTTCATGCCCTACTTCTTAATGCCTCTCTAAAGCC  
ACTAAAAATAAAATAAGACTCGAGGGGGGGCCCGGTACCCCAATTTGCCCTATTATGGGG  
CGGATTACAAATTAAGTGGCCCGGCGTTTTTACAANNNN

&gt;221

NGGCGGCGGAGCTGCCGAGGTACGCGGGACAACAGTCCCCAGGCATCACCATTTCA  
AGATGCATCCAGGGGTCTCGGCTGCCTTCTCTTCTTGAGCTGGACTCATTGTGCGGGCCCT  
GCCCTTCCCAGTGGTGGTGATGAAGATGATTTGTCTGAGGAAGACCTCCAGTTTGCAGAG  
CGCTACCTGAGATCATACTACCATCCTACAAATTCGCGGGAATCCTGAAGGAGAATGCAGC  
AAGCTCCATGACTGAGAGGCTCCGAGAAATGCAGTCTTTCTTCGGCTTAGAGGTGACTGGC  
AACTTGACGATAACACCTTAGATGTCATGAAAAAGCCAAGATGCGGGGTTCTGATGTGGG  
TGAATACAATGTTTTCCCTCGAACTCTTAAATGGTCCAAAATGAATTTAACCTACAGAATTGTG  
AATTACACCCCTGATATGACTCATTCTGAAGTCGAAAAGGCATTCAAAAAGCCTTCAAAGTT  
TGGTCCGATGTAACCTCCTGTAATTTTACCAGACTTCACGATGGCATTGCTGACATCATGATC  
TCTTTTGAATTAAGGAGCATGGCGACTTCTACCCATTTGATGGGCCCTCTGGCCTGCTGGC  
TCATGCTTTTCTCCTGGGCCAAATTATGGAGGAGATGCCCATTTTGTATGATGATGAAACCT  
GGACAAGTAGTTCCAAAGGCTACAACCTGTTTCTTGTGCTGCGCATGAGTTCCGGCCACTCC  
TTAGGTCTTGACCACTCCAAGGACCCTGGAGCACTCATGTTTCTATCTACACCTACACCGG  
CAAAAGCCACTTTATGCTTCTGATGACGATGTACAAGGGATCCAGTCTCTCTATGGTCCAG  
GAGATGAAGACCCCAACCCTAAACATCCAAAACGCCAGACAAATGTGACCCTTCTTATCC  
CTTGATGCCATTACCAGTCTCCGAGGAGAAACAATGATCTTTAAAGACAGATTCTTCTGGCG  
CCTGCATCCTCAGCAGGTTGATGCGGAGCTGTTTTTAAACGAAATCATTTTGGCCAGAACTTC  
CCAACCGTATTGATGCTGCATATGAGCACCTTCTCATGACCTCATCTTCATCTTCAGAGGTA  
GAAAATTTTGGGCTCTTAATGGTTATGACATTCTGGAAGGTTATCCCAAAAAAATATCTGAAC  
TGGGTCTTCCAAAAGAAGTTAAGAAGATAAGTGCAGCTGTTCACTTTGAGGATACAGGCAAG  
ACTCTCCTGTTCTCAGGAAACCAGGTCTGGAGATATGATGATACTAACCATATTATGGATAAA  
GACTATCCGAGACTAATAGAAGAAGACTTCCCAGGAATTGGTGATAAAGTAGATGCTGTCTA  
TGAGAAAAATGGTTATATCTATTTTTTCAACGGACCCATACAGTTTGAATACAGCATCTGGAG  
TAACCGTATTGTTTCGCGTCATGCCAGCAAATTCATTTTGTGGTGTTAAGTGCTTTTTTAAAA  
ATTGTTATTTAAATCCTGAAGAGCATTGTTGGGTAATACTTCCAGAAGTGCGGGGTAGGGGAA  
GAAGAGCTATCAGGAGAAAAGCTTGGTCTGTGAACAAGCTTCAGTAAGTTATCTTTGAATATG  
TAGTATCTATATGACTATGCGTGGCTGGAACCACTTGAAGAATGTTAGAGTAATGAAATGGA  
GGATCTCTAAAGAGCATCTGATTCTTGTGTGTACAAAAGCAATGGTTGATGATACTTCCCA  
CACCACAAATGGGACACATGGTCTGTCAATGAGAGCATAATTTAAAAATATATTTAAGGAA  
ATTTTACAAGGGCATAAAGTAAATACATGCATATAATGAATAAATCATTCTTACTAAAAAGTAT  
AAAATAGTATGAAAATGGAAATTTGGGAGAGCCATACATAAAAGAAATAAACCAAGGAAAAAT

Table 4

GTCTGTAATAAGACTGTAAGTCCAAATAAATAATTTTCATTTTGCACTGAGGATATTCAGA  
TGTATGTGCCCTTCTTACACAGACACTAACGAAATATCAAAGTCATTAAAGACAGGAGACAA  
AAGAGCAGTGGTAAGAATAGTAGATGTGGCCTTTGAATTCGTTTAATTTTCACTTTTGGCAA  
TGACTCAAAGTCTGCTCTCATATAAGACAAATATTCCTTTGCATATTATAAAGGATAAAGAAG  
GATGATGTCTTTTTATTAATAATTTTCAGGTTCTTCAGAAGTCACACATTACAAAGTTAAAT  
GTTATCAAATAGTCTAAGGCCATGGCATCCCTTTTTCATAAATATTTTGATTATTTAAGACTA  
AAAGTTGCATTTTAACCCATTTTACCTAGCTAATTTAATTGTCCGGTTTGTCTTGGATAT  
ATAGGCTATTTTCTAAAGACTTGTATAGCATGAAATAAATATATCTTATAAAGTGGAAGTATG  
TATATTAATAAAGAGACATCCAAATTTTTTTTTAAAGCAGTCTACTAGATTGTATCCCTTGAG  
ATATGGAAGGATGCCTTTTTTCTCTGCATTTAAAAAATCCCCAGCACTTCCCACAGTGCC  
TATTGATACTTGGGGAGGGTGTCTTGGCACTTATTGAATATATGATCGGCCATCAAGGGAAGA  
ACTATTGTGCTCAGAGACACTGTTGATAAAAACTCAGGCAAAGAAAATGAAATGCATATTTGC  
AAAGTGTATTAGGAAGTGTTTATGTTGTTTATAATAAATAATATTTTCAACAGANNNNNNNNN  
>222

NAGGGAGTCCCACCCACGTGTCCGCGCAAGACGCCTCGTAGGGAGTGTAAGTATG  
GCCGGCCTGCGGAACGAAAGTGAACAGGAGCCGCTCTTAGGCGACACACCTGGAAGCAGA  
GAATGGGACATTTTAGAGACTGAAGAGCATTATAAGAGCCGATGGAGATCTATTAGGATTTT  
ATATCTTACTATGTTTCTCAGCAGTGTAGGGTTTTCTGTAGTGATGATGTCCATATGGCCATA  
TCTCCAAAGATTGGATCCGACAGCTGATACAAAGTTTTTGGGCTGGGTTATTGCTTCATAG  
TCTTGGCCAAATGGTAGCTTCACCTATATTTGGTTTATGGTCTAATTATAGACCAAGAAAAGA  
GCCTCTTATTGTCTCCATCTTGATTTCCGTGGCAGCCAAGTGCCTCTATGCATATCTCCACAT  
CCCAGCTTCTCATAATAAATACTACATGCTGGTTGCTCGTGGATTGTTGGGAATTGGAGCAG  
GAAATGTAGCAGTTGTTAGATCATATACTGCTGGTGCTACTTCCCTTCAGGAAAGAAACAGC  
ACTTTTAACTGCTCATCCCTTTTTAACTCATATTTTACAGTTCAACATACATGTTTCTCAT  
TGTAACAAATATTTTTCTTATCATTTTTGCCTTTGCTCATGATGTTCTCATTACCTATAGTTTCT  
CTTCTGTTCTCATCATTTCTCATCCTTCAAGATTCAAGTTTAAACCAGGTGTGGTGGCACGTGC  
CTGTAATACCAGCTACTCGGGAGACTGAGGTAGCAGAATCTCTTGAGCCCAGGAGTTCGAG  
GGCAGNCTGGGTAAACATAGGGAGACTCCATCTTAAAAAAACATCACTGGGCGCGGTTTAC  
AACGTCGTGACTGGGGAACCCGGGGTACCAAAATTAACGGCTGGGGAGAATCCCTTGG  
GCAGAGGGGGAAAGGAAAGGCGGCCAAGTGCCCCCCCCAAAGGGCCCCCAGAGAAGAGAC  
AGAGGGACCATGTGAGGCCCCCCCCCTAGGGGCCCCCTAACACCACACGGGGGCGCCCCCT  
CCAAACCCCGCGCTCGCGCCCAGACACCACCCCCCAGGGCCACCCGCGGCCGCCACCC  
CACCNNNNNNNNNNNNNNNNNNNNNNNNN  
>223

ACGCGGGGGGGGACGTAAGGTGGGGCGGTGAAAGAAGTTTGCTGACGAAGATGGC  
GACTGAGGCACAGAGTGAAGGGGAGGTGCCAGCCCGCAATCCGGCCGGAGTGATGCCAT  
CTGCAGTTTTGTGATCTGCAATGATTCTTCCCTTCGAGGTCAGCCATTATCTTTAATCCTGA  
CTTTTTTGTGGAGAACTCCGACATGAGAACTGAGATTTTCACTGAGTTGGTGGTCAGCA  
ATATCACAAAGGCTCATCGATTTACCTGGAAGTGAAGTTGGCTCAGCTGATGGGGGAAGTGGA  
CCTTAAGTTGCCTGGCGGGGCTGGCCCAGCATCAGGATTCTTCCGGTCTCTCATGTCTCTC  
AAGCGAAAGGAAAAAGGAGTGATATTTGGGTCCCACTGACGGAGGAAGGCATTGCCCAGA  
TATACCAACTGATTGAGTATCTACACAAAACTTGCGAGTAGAGGGTTTGTTFAGAGTACCG  
GGTAATAGTGTCCGACAGCAGATTTTAAAGGATGCTCTCAATAATGGAAGTGAATGACTT  
GGAATCAGGGGAATTTCACTCAAATGATGTTGCCACTTTGCTGAAGATGTTTCTAGGAGAGT  
TGCCGGAGCCTCTGCTGACACATAAACACTTCAATGCACACCTCAAATCGCTGATTTGATG  
CAGTTTGATGATAAAGGAAACAAGACCAATATACCAGACAAGGACCGGCAAATTGAGGCTCT  
CCAGTTGCTCTTCTCATTCTCCCTCCTCCTAATCGTAATTTGCTGAAGTTATTGCTTGATCT  
CCTATACCAGACAGCAAAGAAACAAGACAAGAACAAGATGTCAGCCTATAACCTTGCCCTTA  
TGTTTGCACCCACCGTCTGTGGCCAAAAAATGTCAGTCAAAATGACCTTCAGGAGAATATC  
ACAAAGTTAAACAGTGGGATGGCTTTTATGATTAAACACTCCAGAACTTTTTAAGGCTCCT  
GCTTATATTCGGGAGTGTGCGAGATTGCACTATTTGGGATCCAGAACTCAGGCATCAAAGGA  
TGACCTTGACCTCATAGCTTCATGTCATACTAAGTCCTTTCAGCTGGCAAAGTCTCAGAAACG  
GAACCGGGTAGATTCTGCCCTCACCAGGAGGAGACCCAGCACCATACGGAAGAGGCACT  
GAGAGAGCTGTTTCAACACGTTTATGATATGCCAGAGTCAGCAAAGAAGAAACAACCTTATTA  
GACAGTTTAATAAGCAATCATTGACCCAGACACCAGGGCGAGAACCCTTCTACTTCCAGGTA  
CAAAAGAGGGCTCGTTGCGCTCCTTCAGTGGGCTTATTAAGCGGAAGGTCTGGGAAATC

Table 4

AGATGATGTCAGAAAAGAAAAAGAAGAACCCCTACTCCAGAATCTGTGGCCATTGGTGAATTG  
AAGGGAACCAGCAAAGAAAATAGGAACTTATTATTTTCTGGCTCTCCAGCTGTCACGATGAC  
ACCAACAAGATTGAAGTGGTCTGAAGGGAAGAAAGAGGGGAAAAAAGGATTTCTCTGAAGG  
ATCCAGAGTTGTCTCCTATGGTCCATGCAGAAATTTCTGTTTAGTGGGCAGGTGTTATTCCTG  
CCCACAGCAAAGCTTGGACTTGCAGCTTGCTTGCTGCATTTTGAATTGTCAAAGCCAACTAA  
TACCGTGACCCGACTGATACCTCTAACCCCACTCACTGGATGATGTTTGCAAGCTGTGCCTT  
CTGAGAGAGTGCTTAGGCCCTGTCTCTCTTTTTTAATATTATGGGGAAACCACTAACTATCCA  
ACCAGCTTATACAGCACACTAAGGTGGGCTTCAGTGCTCACTCAATGTGTTTAGGCAGATTCT  
CACTTTTGAAAAAAATATGAAATGTGTGCTCAACTGCCAGTAATTTTTTAAAAAGCACTGTCC  
CAGTGGATTGATGTTGTTTTAATGGATATTTGGGTTTTCTCTGTTTTGATAGTATTGGGTA  
TTTGGTTGTTTTGTTTGTATTTCTTTGTTTTAAAAGCCATGTTTTGGTTGGGCTCTAAGCT  
AGATATCTTTCCCTCTTTTCACTTTGAGCTTTGGGAAAACCTTTATCTTATGAGGCTGTATT  
CCTCAATACCTAATTTGTGTCCAAAGAATTTATAGCTCTTCTGGACATTTTTATTATTTCTTG  
GGTGTGACATCAGAGTATTTGACCTGCAGTATTGAAAAAGGAGAATTCAGAATGATACAGTA  
TTTTAACAAATCTTAATTATTAACCTCTTTTCTTCCCTTCCATTTCTCCCTCCCTTGCCATCTC  
TCTCTCTCTTTCCCTTTCCCTCAGTGATGTGAAAATAATTGTGTTTTGCTGAACCTGTTATCTTC  
ATTCAATTTCTCTTGACTAAAACATCTCTGGTGCCAACGTAATACTTCTGAACCACTCATCT  
GTGACTCAAGGAAAGTCACTGACAGCATAAAGAGAAGTTTGCTAAAATATTTGTATGTGGGG  
AAGCTCTGGAGTGTGCCTAGGAGGGGGCTGGCTGCCTTTATGTCCAGGATGACTCTTTAT  
GGGTGGGATTACATTGCACCCTCTGAGGGTGCAGGCTAGACCGTCTCCTGAGAGGAAGTTA  
GGATCAGAAAGAAGAAGCAAGCAGCAGCCTCTGCAGGGCTGACAGGATTTAAAGGAGAGAA  
TGTTCTTATTTGGAAGCAGCTGTGGCTTGTCAACATGTTCAAGGAGTGTTACTGTTCCGCC  
CTCTCTTTGTGAGAAGGGACACAGGTGGTAATTTGGAGATGGGGCCAGAGCTTCTGGCTTTT  
GGATTTGGTGTGTTCACTTGTGTTGGATAGAGCAGTGGCATGGCTTTGACCTAGTATGAAC  
GGTGTCTGCCCAGAGAGCAGCATGTAGCAGGGGGGAATGCTCAGGTTTGTGCCTGGCTCT  
GTGGAGCTGTACAACCCTTCTCACCCTGTGGGTTGGAGCCGAGTCAGGCCACTATGGGGAA  
GCAGTTGCCCCACAAAATGTGGTTTGTGACCTATTTCTAAACTGTTGAATATGCTGCACCAT  
TGCTGAAATGAAAGATGACTCTGGGGGAGCAGAGCTTGGCCTTGTGCCAGCTGGCAGCCC  
CCTCTGCCAGCCTTTCTGCTGCTTTTGTCTGTAAACAGCAATAGTGGAGAAAAATGTAAAT  
TTGGTCTTCCAGCTTAATGCAGTGTGAACAATAGATGGTTAGGAAAAACAAACTGCTTAGAA  
GCCCCCTTCTCTAGAGCAGTTTTATGTCATTTGTAAAAACACATATTAGCAAATTCGTTCCGG  
TAGGTTTCTATTCAATATTTGACTTTTTTTTTCTTATTAAGAAAAATGAAATCCCTTACACCAGAT  
ATCAGTTAATTCAAACAGAAAACCCCTTGGGTATCANNNNN

&gt;224

agtcgactcacgcgtCCGGGAAGCGGGGTGGGAAGaagGgAGGGGATGGGGTTGACCGAG  
CTGGAGAAAGCCTTGAACCTCTATCATCGACGTCTACCACaAGTACTCCCTGATAAAGGGGAA  
TTTCCATGCCGTCTACAGGGATGACCTGAAGAAATTGCTAGAGACCGAGTGTCCTCAGTATA  
TCAGGAAAAAGGGTGCAGACGTCTGGTTCAAAGAGTTGGATATCAACACTGATGGTGCAGTT  
AACTTCTGGAGTTCCTCATTCTGGTGATAAAGATGGGCGTGGCAGCCACAAAAAAGCCA  
TGAAGAAAGCCACAAAGAGTAGCTGAGTTACTGGGCCAGAGGCTGGGCCCTGGACATGT  
ACAGACTCTCATTTTATGACGTATCCTACTGCATCAGGACATTTGTGTCAATGTCAGGTGACG  
AGGGGAAATGAAAGTGATGAGACGATGAGAGGAGTGAATACCAAGGACGCCATACTAGGA  
AACCCAGGTCTATTTGTTATCAGAGTAAGGATCAAGCCAGATAGCCTGTTATGTAATTTCTCC  
GATAAAAGATTTTGAAAGCAGGTGCTGTGGGCATCTGTATGGGGAATCGCACTCATAGAATT  
ATTTTCATTTGTAATATTTGGTATCAggCCAAGCAAGGGAAAGAAGCTTTACTgtaTTACCATC  
TTTccTggaaaAGATTGATTTTTCTCTCTCCCTaggGGATATGAggTATGATACCTGCaaccAAAAT  
AAGCTGgctgtaaGTGCTCTCTCCTTAACCTATTGTCCAAGCAATGTACATCACTCTTGCTAGAT  
GAGTGACCATACTTTTTCTTTGCTGCTTGGTTTTCTATCACTAAAAAGCAAATTTAGGTGGA  
AGATGGATGGGTAAGTCCTTTGTCTTGTCAAAGAAATTTAGAAAGGGTAAAGGTGGTGGGA  
TTTGAATCTTTTAAACGGTTTATTCTTTGGAAGGCAAGTGAAGTGGCAGTTGACTGTAGAAT  
CTTGGGAATTTTGAAGGAATTTAAGAGCTGTACTTATTTTAAATAATGAGGAAACAATCAGA  
GAGACTTAACCAGGGTGGCAACTATGGAAGAGTGGGGGTAGAATCCAAGTCTACAGTTCTA  
CGGCACTGCTTTGTTTATTTTTCAATCAAGCACACATGAGGGATTGCTTAATAAATCAAGA  
GTTTTCTATATAGTTTGGGATTACTACAGACACAGGTAAGTCTAGCCATGTGACTATTTTCAGAT  
TAGTGTCCCATGCTCTCCATCCTATTTTCTATCTAAATGTGTCATGATTTTGAATCTCT  
TTGTAAAGAAAACCAAAAAGAGCCATGCCCAAAAGAATGAGCATGAAATGAAGCAATTCAG

Table 4

TATTTAGAATTTCTTCTCTTTTTTTTTTTTTTCCAAAATTCTGAGTTAAGAAAGTTCATTGCC  
AACAGTTGAGGATAAATAGCTCTATTGATTTAGGCCAATGAATGAGAAGATTTAAACATCATC  
AAGACTCCCAAAGTTGGTGTATAAAAAGTTGAGATGTTTTGCTAGATGCTGAGAGAAAAGGC  
ATAAATAGGCCATTTGTGCTCCTGTAAACAAATGAAATTTTGTAATGATCAAGAGACAGCATG  
ATATTATAAAACACACTTTGGACTCATCGAGACCTGGCTCAGAGTTGTACCTAATTTGCTTAT  
CAGCATTTGGTTAGACCTTAGACAAATTTTATAACCTCTCTAAGCCCATTTTCTTTATCTGTAA  
ATAAAGGAAAAAGATCTGTTTGGATTTGGGACAGGAGAGTTGTCTGTTTTATAGGGTAATGTT  
TATGAAAAATAATTTATCACCTAGGTACTTAGTAAATACCAGTTTCTGTCTCTGTTTTCTTCAA  
AGCTTTGTTGACAATGTAGGATATTGCCAACTAATCCTTTGACTTGAGCGCTTAGCCATGCC  
CAATCCAGGCAGCATGAAGAATGATCAAGAAGGGGACACCTAGTGGCAGTTGACCTTTGAG  
GATCTATCTAGGATCAGGTTACTGATTTGGGACCTCTGAATCAGTACATCATAACATCGAGA  
GTGATCTCTGCCAAAATTTAAATTTCTGTCAGAACAGTATAAGCAGAAGGAAGACATTAGGTCT  
TTCTGAAATATGGAGCTGATACTTCTATCAGTTCTGAATTCTGTACTGTCCCACCCCCAAAT  
CATCTATATTGTTGCATGTGCTTAGCTTTGTGCTTGAATTGCTATTTCCCTTTTATCTTGAC  
TCAGATGGTATTTTAGAGATGTTTCTCAATCAAACAAGATAAAGTTAAAAA

&gt;225

NNATGTGGTTACGACCCACTGTATTGAGGTGACGCGATCCATAGGCTGTGGTGT  
GTTTTCGCTGATCCACACAAACGTTGGGGCACTGTCTATTCTGTGTTCAAGCTGAAGGCTC  
GTTCTCGGTTGTCAATTTACAGTGTTTTCTACGGGGTTACATTACAGGAATGTTGTAGCGAC  
GTTTAGCCCGTGGAGTATCAACGTCTTGAGACTCCGTGTGAGACTCCCTGGTTTGTCCACA  
ACAGTGTGTTTTAGATTCCGTACCTTTGATTAAGGAACACATCATGCCGTGAAGCCAATTTA  
TATTCTGCAATTCCTAGTGCATGTAATGTATTCTGCCGTCTCGTAGTGTGAAGCCATGCTTG  
GCACATCCAGTTCTTTGATGTCTGGCTGCCTTCTCGGGCCAACTGTCTTGGAATTCGT  
GCTCCCAGAGATGACCTTGAAGTGCAGATCCCGCACAGCATTGCACTGAGCTGTCTGTATC  
TGAGCCTGGACATGGCGGCCGAGGTACTCACAGTCACGCAAATTCACAGTCTGCGTGCACG  
GCTCTCCATTCTTCTTGGCTTTACAGGTTCCAGGTCAAGAGCTTCACCCATAATTAAGA  
CCTTCTGAGGATGATCGATAGATAAACACACCTCCTCTGAACCATCCTTGGGCTTCATGGGG  
TTGGCATTGAGGATCCCTACGACAGTCCCTGCTCCGTCTTCCAGAGCGCTTTGTGAACCTC  
TCCAAATAAGAACAAAGGACACACATTGTGTGAGGTACGAAGATCATTGCTTTCCATGCT  
GAAGGTTTTTCCACTATTCACACTCTGTGGCGTAACCTTCTTCAATATAACCCCAAATGTCAC  
CCAATCTATTTCTTCCAGCTTCTCTCTGGCCATCTTTTCTTGATCTGAGACAGTCTGATCAG  
TTTTCGGCCGGTCAATGTGTCTTCTGTTCAATTTCTCTGGAGGATACTCGAGCCCGCCTCGAGC  
CGCAGACCAGGAGAAGGCTTCCACACAGATGGCGATTGAGTCGTTTCTCACAGAACTTTC  
ACTCGGGGTCCACCACATATTTGACCTCTAGTTATCCCACTAGGTTTGTTCGAGAAATCGT  
CTGTAGGGGTTGGGAGGGTGCATTTGTCTCTGAAGATGAGCTTTTGGGATCTGGAGGT  
GAAGCCTTTGGTGTTCGAGCCACCCTCTTGGTCTTGGTAGCGCAGGGACATCAAGCTCCG  
CAGAAAAGCATGTTGACTCCTGAATTTCTCTGAACCTCCTCTCCTTAAGAGGTGGCCGGGGA  
GACTTCTCAGGGGATTTTGCAGACGGGCTGGGCTTGTCTGTCTGTTAATTGTTGTTACTTTT  
AGCTGCTCTTGAAGGCCCTTCAATTTGCTCTTGCAAAATTCCTTAATTCCTCTTGCAACTCTTCAT  
TCGTTTTCTCTCGCCTGGGGGCAGGAGCAGGGAGGACCCTATTTTCAGTTGACTGTGATGC  
GGGAACCTTCTTCTTCATCTGTTAAGTCCTCCATATCTCCAAAGAGAGTGGCCAGATTTTCTT  
TTCGTCTCTTGTCTCTCCTGTTTCTCCATCATCAGCCTCTTCTGTATAAGATTACCGTCGCC  
GTCGGCATCAAAGAGCTCATCAAATGCGTCCGGCTCGCCATTTTCCCGGTCAAGAAGTTAT  
TTTCTTCTGAATTACAATCCAAGGCTGACTCATTTTCTTCCAGCAGTGCGGTGAGCAGAGACA  
GATTGTCTTCTCCTCATCCATGCTGTCAAGAGGACAGTTGTGACAGGAACTTCGAAGGAG  
GCTCAGATGCCAGATGAGCAATGTAGAATCTTGGCCGATGCCGGGACGCCTTCTTCGTT  
ACAGCTGAACCCGCCAAAATCGGACNN

&gt;226

ACGCGGGATGGATAGCCGCTTGCAAGAGATCCGGGAGCGGCAGAAGTTACGGCGA  
CAGCTCCTCGCGCAGCAGTTGGGAGCTGAAAGTGCCGACAGCATTGGTGCCGTGTTAAATA  
GCAAAGATGAGCAGAGAGAAATTGCTGAAACAAGAGAACTTGACGGGCTTCTATGATACC  
TCTGCTCCAAATGCAAACGTAAGTATCTGGATGAAGGAGAGACAGATGAGGACAAATGGA  
AGAATATAAGGATGAAGTAGAAATGCAACAGGATGAAGCTTATCATCAATTCATTGTATAAAA  
ATAAAGAGATTTTCTGAGAGAACTGATTTCAAATGCTTCTGATGCTTTAGATAAGAAAGGC  
TAATATCACTGACTGATGAAAATGCTCTTCTGGAATGAGGAACTAACAGTCAAAATTAAGT  
GTGATAAGGAGAAGAACCTGCTGCATGTCACAGACACCGGTGTAGGAATGACCAGAGAAGA

Table 4

GTTGGTTAAAAACCTTGGTACCATAGCCAAATCTGGGACAAGCGAGTTTTTTAAACAAAATGA  
 CTGAAGCACAGGAAGATGGCCAGTCAACTTCTGAATTGATTGGCCAGTTTGGTGTCGGTTTC  
 TATTCCGCCTTCTTGTAGCAGATAAGGTTATTGTCACTTCAAAACACAACAACGATACTCAG  
 CACATCTGGGAGTCTGACTCCAATGAATTTTCTGTTATTGCTGACCCaagaggAAACACTCtaaG  
 ACGGGGAACGACAATTACCCCTTGTCTTAAAGAAGAAGCATCTGATTACCTTGAATTGGATA  
 CAATTA AAAATCTCGTCAAAAAATATTCACAGTTCATAAACTTTCCTATTTATGTATGGAGCAG  
 CAAGACTGAAACTGTTGAGGAGCCCATGGAGGAAGAAGAAGCAGCCAAAGAAGAGAAAGAA  
 GAATCTGATGATGAAGCTGCAGTAGAGGAAGAAGAAGAAAAGAAACCAAGACGAAAA  
 AAGTTGAAAAAACTGTCTGGGACTGGGAACCTTATGAATGATATCAAACCAATAT

&gt;227

NNCGCTAGCTTGGACGGTTTGGCTGCCAGAGCCTGCTGCCAAGAGACAGGCTTGC  
 AGCCCCGCCCTTTTCTCCAGCCCAGCCCTGGTTTAAAGTCCCCGCCCTCCCCTCCCCACTC  
 TTCAGCTGCCCTGGACCCACCCCAAATGACAGAAAGGGCTCACTGAAGGCCCTGACGCTTC  
 GAAATTTGCTAATATGCAGCAGTTGATCCCCAGGCTACTCAAGGACGCAGATAGTAACTCT  
 GAACCCTGCTTCAGTTGCGAGATTTTTTAAACGGTCAATAAATCTTCAAGAAATAGAAGCT  
 CTAAATCTTCCAAACAGCCTAGATTGTAAAGGCGGCCGACACTACAACCTCTAGCATGCCCA  
 GCAACCGGACCTTCACTTGGAGTTGGCGCTCTGCCCGCTGGGAAGTGTAGTCTTGTGGT  
 TGCGGTCCCACCTAACGCCGAGGTCTCTTCAAGCTGGTCTTTCGGGGCACGCC  
 TGCGCAGTGGGCAAGCTGGAAAAGCGTGTGGGTGAGAACCTCGCACAACCCCTTTTCATTG  
 TCTGTGTGTGGCGCCTGCGCAGTAAGGGATCGTTGGAAGTGGGCAGGAGGGGATAGGGTC  
 CGGCTCCTCGCCCTTCCCGAGGCGCCTGCGCACTAGGCAGTCGGTCTTTCGGCTTACCGC  
 TATGTGTGGGGCGTGTGTGGAATAACGTTATTGCCAGCGGAGCTGAGGGCCCCGGAGCT  
 CGACCGCAGCGGCAGCGACGACAACAGCGCGACGACGACGACGAGGTGGGGGAG  
 GACGGCGTGCGAGAGACTCACGGGACGCGACGCGCCCCGCTCCCCCGTCCGGTCCCTC  
 TCTCCACGGTAAGGGGATGACGTAGCTTTGCCAAAGACTTAGAAGCTAAGCAGAAAATGAG  
 CTTAACATCCTGGTTTTTGGTGAGCAGTGGAGGCACTCGCCACAGGCTGCCACGAGAAATG  
 ATTTTTGTTGGAAGAGATGACTGTGAGCTCATGTTGCAGTCTCGTAGTGTGGATAAGCAACA  
 CGCTGTCACTCACTATGATGCGTCTACGGATGAGCATTAGTGAAGGATTTGGGCAGCCTCA  
 ATGGGACTTTTGTGAATGATGTAAGGATTCGGGAACAGACTTATATCACCTTGAAACTTGAAG  
 ATAAGCTGAGATTTGGATATGATACAAATCTTTTCACTGTAGTACAAGGAGAAATGAGGGTCC  
 CTGAAGAAGCTCTTAAGCATGAGAAGTTTACCATTAGCTTCAGTTGTCCCAAAAATCTTCAG  
 AATCAGAATTATCCAAATCTGCAAGTGCCAAAAGCATAGATTCAAAGGTAGCAGACGCTGCT  
 ACTGAAGTGCAGCACAAAACCTACTGAAGCACTGAAATCCGAGGAAAAAGCCATGGATATTT  
 TGCTATGCCCGTGGTACTCCATTATATGCGGAGCCGTCATGGTGGGGGGATGATGAGGTG  
 GATGAAAAAAGAGCTTTCAAGACAAATGGCAAACCTGAAGAAAAAAACCATGAAGCTGGAAC  
 ATCAGGGTGCAGCATAGATGCCAAGCAAGTTGAGGAACAATCTGCAGCTGCAAAATGAAGAA  
 GTACTTTTTCTTTCTGTAGGGAAACCAAGTTATTTTGAATCCCTACAAAAGAATTCCAGCAA  
 CCATCACAAATAACAGAAAGCACTATTATCATGAAATCCCAACAAAAGACACGCCAAGTTCCCAT  
 ATAACAGGTGCAGGGCATGCTTCATTTACCAATTGAATTTGATGACAGTACCCAGGGAAGGT  
 AACTATTAGAGACCATGTGACAAAGTTTACTTCTGATCAGCGCCACAAGTCCAAGAAGTCTTC  
 TCCTGGAAGTCAAGACTTGTGGGGATTCAAACAGGAATGATGGCACCCGAAAAACAAAGTTG  
 CTGACTGGCTAGCACAAAACAACCCCTCCTCAAATGCTATGGGAAAGAACAGAAGAGGATTCT  
 AAAAGCATTAAAAGTGATGTTCCAGTGTACTTGAAAAGGTTGAAAAGGAAATAAACATGATGAT  
 GGTACGCAAAAGTGATTCAGAGAACGCTGGGGCTCACAGGCGCTGTAGCAAACGTGCAACTC  
 TTGAGGAACACTTAAGACGCCACCATTGAGAACACAAAAAGCTACAGAAGGTCCAGGCTACT  
 GAAAAGCATCAAGACCAAGCTGTTACTAGCTCTGCGCATCACAGAGGGGGGCATGGTGTTC  
 CACATGGGAAATTGTTAAAAACAGAAATCAGAGGAGCCATCGGTGTCAATACCCTTCTACAA  
 ACTGCATTATTAAGAAGTTCAGGGAGTCTTGGGCACAGACCAAGCCAGGAGATGGATAAAAT  
 GTTAAAAAATCAAGCAACTTCTGCTACTTCTGAAAAGGATAATGATGATGACCAAAGTGACAA  
 GGGTACTTATACCATTGAGTTAGAGAATCCCAACAGTGAGGAAGTGAAGCAAGAAAAATGA  
 TTGACAAGGTGTTTGGAGTAGATGACAATCAGGATTATAATAGGCCTGTTATCAACGAAAAAC  
 ATAAAGATCTAATAAAAGATTGGGCTCTCAGTTCTGCTGCAGCAGTAATGGAAGAAAGAAAA  
 CCACTGACTACATCTGGATTTCAACACTCAGAGGAAGGCACATCTTCATCTGGAAGCAAACG  
 TTGGGTTTCACAGTGGGCTAGTTTGGCTGCCAATCATACAAGGCATGATCAAGAAGAAAGGA  
 TAATGGAATTTCTGCACCTCTTCTTTAGAGAATGAGACAGAGATCAGTGAGTCTGGCATG  
 ACAGTGAGAAGTACTGGCTCTGCAACTTCTTGGCTAGCCAGGGAGAGAGAAGGAGACGAA

Table 4

CTCTTCCCCAGCTTCCAAATGAAGAAAAGTCTCTTGAGAGCCACAGAGCAAAGGTTGTAACA  
CAGAGGTCAGAGATAGGAGAAAAACAAGACACAGAACTTCAGGAGAAAGAAACACCTACAC  
AGGTATACCAGAAAGATAAACAAGATGCTGACAGACCCTTGAGTAAATGAACAGGGCAGTA  
AATGGAGAGACTCTCAAAACTGGTGGAGATAATAAAACCCCTACTTCACTTAGGCAGCTCTGC  
TCCTGAAAAAGAGAAAAGTGAAACTGATAAGGAAACTTCTTTGGTAAAGCAAACATTAGCAAA  
ACTTCAACAACAAGAACAAGGGAGGAGGCTCAGTGGACACCTACTAAATTGTCTTCAAAA  
ATGTTTCAGGTCAGACAGATAAATGTAGGGAGGAACTTTTAAACAAGAATCACAACCTCCA  
GAAAAAATTTCAGGACATTCTACAAGCAAAGGAGACAGAGTGGCACAAGTGAGAGCAAGA  
GAAGAAAAGCTGAGGAAATTCTGAAAAGTCAGACTCCAAAGGGAGGAGACAAGAAGGAATC  
CTCCAAGTCATTAGTGCGACAAGGGAGCTTCACTATAGAAAAACCCAGCCCAAACATACCCA  
TAGAAGCTTATCCCCATATAAATAAACAGACTTCTCTACTCCTTCTTCTTAGCATTAAACATC  
TGCAAGTAGAATACGAGAAAGAAGTGAGTCTTTGGATCCTGATTCTAGTATGGACACAACCC  
TTATTCTAAAAGACACAGAAGCAGTAATGGCTTTTCTAGAAGCTAAACTACGTGAAGATAATA  
AACTGATGAAGGACCAGATACTCCAGTTATAATAGAGACAATTCTATTTACCAGAATCTG  
ATGTAGATACAGCTAGTACAATCAGTCTGGTTACTGGAGAACTGAAAGAAAGTCAACCCAA  
AAGCGAAAGAGTTTCACTAGCCTCTATAAAGATAGGTGTTCCACAGGTTCTCCTTCAAAGAT  
GTTACAAAATCATCATCTTCAGGTGCTAGGGAAAAAATGGAAAAAGAAAACAAAAGTCTGTTCC  
ACAGATGTGGGTTCAAGAGCAGATGGTCGTAAATTTGTTCACTCCAGTGGGAGAATAAGACA  
GCCCTCAGTAGACTTAACAGATGATGACCAACCTCTAGTGTACCTCATTCTGCCATCTCTG  
ATATTATGTCTCATCTGATCAAGAACTTACTCTTGTAACCTCATGGACGGAAGTCACTTACCT  
CAGCTGATGAGCATGTACATTCCAACTGGAAGGAAGTAAAGTAACGAAATCTAAGACTTCT  
CCGGTGGTATCTGGTTCATCTAGTAAATCAACCACCCTTCCAAGGCCACGACCTACCAGGAC  
TTCCCTCTTGCGCAGAGCAGACTTGGTGAAGCTTCAGACAGTGAAGTGGTGTGCTGACA  
AAGCATCTGTTGCTTCTGAAGTATCCACAACAAGTTCTACATCAAAACCTCCACAGGAAGG  
CGTAACATCTCTCGGATTGATTTATTGGCTCAGCCTCGTAGAACACGACTTGGCTCACTGTC  
AGCTCGTAGTGAAGCAACAATTTCTAGAAGTAGTGCCTCTTCGAGGACCGCAGAAG  
CCATCATTAGAAGTGGAGCCAGACTAGTACCATCAGATAAATTTCTCCTAGAATTAGAGCTA  
ACAGTATCTCTGACTCTCAGACTCCAAGGTCAAAGTATGACCTCAGCTCATGGCTCTGCT  
TCAGTAAATTCAAGATGGAGGCGCTTCTCTACTGATTATGCTTCCACCTCAGAAGATGAATTT  
GGATCAAACCGTAATTCGCCCTAAACATACCCGCTACGTACTTCTCCAGCCCTGAAAACCA  
TCGCTTGAGAGCGCTGGATCAGCAATGCCTACTAGTTCTTCATTCAAACACCGGATTAAAG  
AGCAGGAAGACTACATCCGAGATTGGACTGCTCATCGAGAAGAGATAGCCAGGATCAGCCA  
AGATCTTGCTCTCATTGCTCGGGAGATCAACGATGTAGCAGGAGAGATAGATTCACTGACTT  
CATCAGGCACTGCCCCTAGTACCACAGTAAGCACTGCTGCCACCACCCTGGCTCTGCCAT  
AGACACTAGAGAAGAGTTGGTTGATCGTGTTTTGATGAAAGCCTCAACTTCCGAAAGATT  
CTCCATTAGTTCAATCCAAAACACCAGAAGGAAACAACGGTCGATCTGGTGATCCAAGACCT  
CAAGCAGCAGAGCCTCCCGATCACTTAACAATTACAAGCGGAGAACCTGGAGCAGGGATG  
AAGTCATGGGAGATAATCTGCTGCTGTCATCCGTCTTTCAGTTCTCTAAGAAGATAAGACAAT  
CTATAGATAAGACAGCTGGAAAGATCAGAATATTATTTAAAGACAAAGATCGGAATTGGGATG  
ACATAGAAAGCAAATTAAGAGCCGAAAGTGAAGTCCCTATTGTGAAAACCTCAAGCATGGAG  
ATTTCTTCTATCTTACAGGAAGTGAAGAGTAGAAAAGCAGCTGCAAGCAATCAATGCTATG  
ATTGATCCTGATGGAACCTTTGGAGGCTCTGAACAACATGGGATTTCCAGTGCTATGTTGCC  
ATCTCCACCGAAACAGAAGTCCAGCCCTGTGAATAACCACCACAGCCCGGGTCAGACACCA  
ACACTTGCCCAACCAGAAGCTAGGGCTCTTCATCCTGCTGCTGTTTCAGCCGCAGCTGAATT  
TGAGAATGCTGAATCTGAGGCTGATTTCAATATACATTTCAATAGATTCAACCCCGATGGGG  
AAGAGGAAGATGTTACAGTACAAGAATGACTTTCTCTTGATTGTTGAAAAATCATTACCTGTG  
GAATGGCTAGGAATATTGGAAGCAGCATAGTGTGATGTACGCAAAACAAGACAGCTTGGTC  
AGCTACAATCTTGAATCCCTGTCTTCTTAATTTATTTATTTTATTTTATTTTATTTTATTTT  
TATCAATCCTTTCAAACTATTTAGATAACCACTTGATGCACAAATAGGAAAAAGCAGATTGTG  
GCAGTGTGCGCTTTTGTGGTTTTATGATTTTCAATTTGAATTTAATGATTACACCTTTTCCCTT  
CATAGATCTTTTTTCTTTTTTTAAGCCATGCTGTGACCTACAAGCAAACCTAAATAGCCAACAT  
TTCTGAACCCCTAAGTCTCCTGTGCCAAGCTGCTCCCTGAAATGGACTTCTTCATCTGTACA  
GATTTGTTAAACCATTTCTATTTGCTTCTTAATAATAGGATTTATATTAGTACTCATTACCATTGG  
ACACAATGACATAAGTACTCTCCACAGTAAAGCAGAGCTTTCACAACAGTCACTCTGTGTCTCT  
AAAATTTTCCAACATAGATGTGATTTATAGAACTTTGTTGATACGTAAATTGTCTGGGGTTTA  
CGGAAATTAATATTATGTTTGCATAAATTTGCTGGGAGTGGTAGGTGGACATATCTATAT

Table 4

ATCAATAAGGACTAACCGTCTTTTTGTACATAGGAGATTGATAACTGTATTTGTTTTAAGC  
CCACAGTGTCTTACTCCACTTTCAAAAAGATCAATTTGGCACTTTTTTCATTTTTTTAATGGA  
AATAAGATTTGGTCTCTCATTTTAGGTTAAATGATAACTAGAAAGATTAACCTAGACAGATAGT  
TTAGGTGGAGTATATTTTTAACTCAGAACATGTATATTGGTCCTGTGTTACCAAGTTTATAT  
GTGACAGTTGAAAAAGAAATCCCTTGAAATGATCATGAGGTTAAAATTTCTTCATTAGGGG  
ACTTGGAGAACCAGTAGTCGTAAGATTAGTTGATAGTTTCACTCCCAAGCAATGAATTGCTTC  
TGTGTGTTTCCCTGTAGGACTCAATAGTAAATGCTGTCTGTCTTACACATTTATAAGGACCT  
GCAAGACGACGACAAAGGCCCTTTGGCCTGTGCTACTAAACAAGAAGCCTATGAAAAATTTCT  
TCTTTAACTTGTTTTTCTCTTTCCAGTAAGTTACATTTGGATAATTTTAAAAAGAAAAGTAA  
TTACCTTTGTGTTTCCAGAACACTATAATTGGGGTGTATCTTAATTCAGTTAAATATTATTAGT  
AGACCTGGATTTTCCCCCTTGACCCCATCAGTCTATAAAGGTTAACTGCAACTTTTATGAAA  
TGGTCTTTAATATTTCCACAATAATCCTGTGCTATATTTGTTTTAAGAAACAAAGTAACTCTAT  
ACACTTCAAGACTTTACAGGATTTTTAAATCCTGTATTGTTGGATCAATTAATAAAGATGCAA  
AAAACTTTATAGAGATGTAAAAACAAAACATAATGGATCTCCTATTTTCTTTAAATACAAAA  
AAAAAAGGTAAATGAACTATTCTCCTTGTAAGCTAAATCCCCATTCTGTCTAATAAAGGAA  
GACTGAAAAAGGTTTTAAAGAACATAAATGGAAAGATACAAATGCTTTGAAGGAATAAACGA  
AATGTTAAACAGGGTCAATCCATTTGAAGAAAAAGTTGGACAAAAATAATCAGCATTGCTCCC  
TCTTTATTTAATATTTGGGTACTGATTATATCCACATGGAAGTAGAAGGTAAGGAGTTTAGG  
AAATACTAGAACTACTCTGCTTACATTCTGTTTAAAGTGTTTACACAGTTTGGTTCAATTAT  
AAACATTTGGCCTTTTACTATGTTATTTTATTTTGTATGAATACATTATCCTCCTTATTTATTT  
TGTTACATTTATTACTTATGTTATTTTGTATGCATTTACAACCTCCTTTTAAATAAAGTGTTT  
CTGGAACTTTAAAAAAAAAAAAAAAAACGGCACGAGGGGGGGCCCGGTACCCAATTCCCCCTA  
TAGTGAGTCGTATTACGCGCGCTCACTGGCCGCGGTTTTACACACGTCGTGACTGGGAAAA  
CCCTGGCGTTCCCACTTAATCGCCTTGCANNN

&gt;228

&gt;229

NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNTAGTAGAGACGAGGTTTCTCCATGTT  
GGTCAGGCTGGTCTTGAACCTCCGACCTCAGGTATCTGCCCGCCCGGGCCTCCCAAAGTGC  
TGGGATGACAGGTGTGAGCCACCACCCAGCCTGTTGTAAAACTTCTTAACTTTAAAAA  
AAAATAACCCATGAAAATGGCTTAATAAAATAACATTCCAATAAAACTCTTCTATAATACTTTT  
ACAAGTAAAACTGACCAATGTAAACAGGTTCCCAAAAAAAAAAAAAAAAAAAAAAAAAAAT  
AAAAAAAAAAAAAAAAAAAAAAAAAAGTACCTGCCCGGGCGGCCGCTCGACCGCCCGGGC  
AGGTACGGCCTGTCCGAATGATGCGTTGCAGTTGATTTGTCTTCACCCAAATAATTTATCTA  
CCGTTCTAGACCCAGAGGTTTACACATTCTCTCCCAACTCCATGGCCCTGCTTCAATGACC  
CAGAGGAAGAGAAAGCCATCATCCTGTAGTACCTCGGCCCTGAGCCTGCGCATCTCATCAT  
CTGTCAGGGTCCCATAGGGCAGTTCCATGTGAATATCNCAGGGTGGGTGAGCCATCACAACT  
TGCAAACTTGCCCAAGATACTGACGTCCAGGTAGCGGATATCACAAACAGATCCACTGCATAA  
AGTGGTATTTGGTCATCTTCCCTACTTTAACTCTGAGATTGATGGCCCGAGTCCCTCTTTCC  
ATTTGATTTTTCTATTCCCTTAAAGCTTATCTATCCCCCTCCATTCCCAATAAGCAAGACAA  
GATTGCTGAATTATGCTCTGCTTTCTTAACGTGTATGGCTGCCCTATCAAACATAAGTCCGTA  
AGTTGAGACGAGTTTTCTGAGCAGACAGGTACCTGAGGTGGGAAGAGTCCGTCTGCACTGG  
AATCACCTCCGACACTCTGTGTAAGAGCAAGTCCCTGGCTTGGCGTGTGGTCTTTGCTGCCA  
GGGCGCTCAGAATCCATGCAAGCATCAATTCATAGTGAACATACTCGGACGC

&gt;230

&gt;231

NAGTCGACCCACGCGTCCGTGGCATTATTTCTCTCTCTACAAGGAGCCTTAGGAGG  
TACGGGGAGCTCGCAATACTCCTTTTGGTTTATTCTTACCACCTTGCTTCTGTGTTCTTGG  
GAATGCTGCTGTGCTTATGCATCTGGTCTCTTTTGGAGCTACAGTGGACAGGCATTTGTGA  
CAGCACTATGGGACTGAGTAACATTCTTTGTGATGGCCTTCTGCTCTCTGGTCTGCTCTC  
CTCTGAAGATTCAAGCTTATTTCAATGAGACTGACAGCTGCCATGCCAATTTGCAAACTCTC  
AAAACCAAAGCCTGAGTGAGCTAGTAGTATTTGGCAGGACCAGGAAAACCTTGGTTCTGAAT  
GAGGTATACTTAGGCAAAAGAGAAATTTGACAGTGTTTATTCCAAGTATATGGGCCGCACAAG  
TTTTGATTGCGACAGTTGGACCTGAGACTTCACAATCTTCAGATCAAGGACAAGGGCTTGT  
ATCAATGTATCATCCATCACAAAAAGCCCCACAGGAATGATTGCGATCCACCAGATGAATTCTG  
AACTGTCACTGCTTGTCACTTCACTGCAACCTGAAATAGTACCAATTTCTAATATAACAGAAA  
ATGTGTACATAAATTTGACCTGCTCATCTATACACGGTTACCCAGAACCTAAGAAGATGAGTG



Table 4

TTTTGCTAAGAACCAAGAATTCAACTATCGAGTATGATGGTATTATGCAGAAATCTCAAGATA  
ATGTCACAGAAGTGTACGACGTTTCCATCAGCTTGTCTGTTTCATTCCCTGATGTTACGAGCA  
ATATGACCATCTTCTGTATTCTGGAAACTGACAAGACGCGGCTTTTATCTTCACCTTTCTCTA  
TAGAGCTTGAGGACCCCTCAGCCTCCCCCAGACCACATTCTTGATTACAGCTGTACTTCCA  
ACAGTTATTATATGTGTGATGGTTTTCTGTCTAATTCTATGGAAATGGAAGAAGAAGCGG  
CCTCGCAACTCTTATAAATGTGGAACCAACACAATGGAGAGGGAAGAGAGTGAACAGACCA  
AGAAAAGAGAAAAAATCCATATACCTGAAAGATCTGATGAAGCCCAGCGTGTAAAAAGTT  
CGAAGACATCTTCATGCGACAAAAGTGATACATGTTTTTAATTAAGAGTAAAGCCCATACAA  
GTATTCATTTTTCTACCCTTTCCCTTTGTAAGTTCTGGGCAACCTTTTTGATTTCTTCCAGAA  
GGCAAAAAGACATTACCATGAGTAATAAGGGGGCTCCAGGACTCCCTCTAAGTGGAATAGC  
CTCCCTGTAAGTCCAGCTCTGCTCCGTATGCCAAGAGGAGACTTTAATTCTCTTACTGCTTCT  
TTTCACTTCAGAGCACACTTATGGGGCAAGCCCAGCTTAATGGCTCATGACCTGGAAATAAA  
ATTTAGGACCAATACCTCCTCCAGATCAGATTCTTCTCTTAATTTTCATAGATTGTGTTTTTTTT  
AAATAGACCTCTCAATTTCTGGAAACTGCCTTTTATCTGCCAGAATTCTAAGCTGGTGCCC  
CACTGAATCTTGTGTACCTGTGACTAAACAACCTCCTCCTCAGTCTGGGTGGGACTTATGTAT  
TTATGACCTTATAGTGTTAATATCTTGAACATAGAGATCTATGTACTGTAATAGTGTGATTAC  
TATGCTCTAGAGAAAAGTCTACCCCTGCTAAGGAGTTCTCATCCCTCTGTGAGGGTCAGTAA  
GGAAAACGGTGGCCTAGGGTACAGGCAACAATGAGCAGACCAACCTAAATTTGGGGAAT  
AGGAGAGGCAGAGATAGAACCTGGAGCCACTTCTATCTGGGCTGTTGCTAATATTGAGGAG  
GCTTGCCCCACCCAACACGCCATAGTGGAGAGAACTGAATAAACAGGAAAATGCCAGAGCT  
TGTGAACCTGCTTGTCTTGAAGAACTGACTAGTGAGATGGCCTGGGGAAGCTGTGAAAGA  
ACCAAAAGAGATCACAATACTCAAACGAGAGAGAGAGAGACAAAAGAGAGATCTTGATCCAC  
AGAAATACATGAAATGTCTGGTCTGTTACCCCATCAACAAGTCTTGAAACAAGCAACAGAT  
GGATAGTCTGTGCAAATGGACATAAAACAGACAGCAGCTTCCCTGGTGGTCAGGGAGGGGG  
TTTGCAGATACCCAAGCTATTGGGAN

&gt;232

CACAGCAAACCAGAGAGAATAATACAAATGAATGAAAAGTAGAACCAAAACAAACAG  
GAACCATCTCTACATTTTTTTTACTCAATCGACCCTGAATGCTACAGCATTATCCAGGGCCGC  
AGAAAACACACATAATACTTTTATTCTGATAAACCATTCGATGTCCTTAAGTCCGCCCATATC  
ACCGTACATTCTGTGCCATCAAGAAATTTACTCAGCTGGGCACAGTGGCGCGATCTCAGCTC  
ACTGCAACCTCCGCCTCAGAGGTTCAAGTGATTCTCCTGCCTCAGCCTCTGGAATAGCTGG  
GACTACAGGCACCTGCCACCACACCCAGCTAACTTTTTGTATTTTAGAGAAGATGGGGTTT  
CATCATGTTGGCCAGCTGGTCTCAAACCTCTGATCTCAGTGATCCATCTGCCTCAGCCTCC  
CCAAGTTATAAGATTTTTTCTCTGGTTTTTAGTAAATGTTTTTTTGGAGATTGCTTAGCACC  
AGAATGATTTGCAAATTTGAAAATAGGAATCCACTAGGAATGCCGATAGAAGAGTGCTTC  
ACATTTGTAGAGGGAGACAAGAACTAAATATCACGACGTCTTTCTGAGCCTTTTGGTTTGCTA  
ACGTGCCCCAAATTTCTATTCCAAACGGTATAAGATAATTATGTGTAATGAATACCAGCTCT  
ACTTAGTTTTATTTTCATATTTGTGGATCTGAATATATTAATATCTTTTTTTTTTTTGATGCG  
GAGTCTTGCTCTGTTGTCCAGCCTGGAGTGCAGTGGCATGATCTCGGCTCACTGCAACCTC  
TGCTCCCAAGTTCAAGCGATTCTCCTGCCTCAGCCTCCTAAGTAGCTGGTATTACAGGAGT  
GTGCCATTAGCCTGGCT

&gt;233

gGCGGCCGCCCGGGCAGGTACGCGGGGGCCAGTTCTCTTCGGGGACTAACTGCAA  
CGGAGAGACTCAAGATGATTCCCTTTTTACCCATGTTTTCTCTACTATTGCTGCTTATTGTTAA  
CCCTATAAACGCCAACCAATCATTATGACAAGATCTTGGCTCATAGTCGTATCAGGGGTCGGG  
ACCAAGGCCCAAATGTCTGTGCCCTTCAACAGATTTTGGGCACCAAAAAGAAATACTTCAGC  
ACTTGTAAGAACTGGTATAAAAAGTCCATCTGTGGACAGAAAACGACTGTGTTATATGAATGT  
TGCCCTGGTTATATGAGAATGGAAGGAATGAAAGGCTGCCAGCAGTTTTGCCATTGACCA  
TGTTTATGGCACTCTGGGCATCGTGGGAGCCACCACAACGCAGCGCTATTCTGACGCCTCA  
AAACTGAGGGAGGAGATCGAGGGAAAGGGATCCTTCACTTACTTTGCACCGAGTAATGAGG  
CTTGGGACAACCTTGGATTCTGATATCCGTAGAGGTTTGGAGAGCAACGTGAATGTTGAATTA  
CTGAATGCTTTACATAGTCACATGATTAATAAGAGAATGTTGACCAAGGACTTAAAAATGGC  
ATGATTATTCCTTCAATGTATAACAATTTGGGGCTTTTCATTAAACCATTATCCTAATGGGGTTG  
TCACTGTTAATTGTGCTCGAATCATCGATGGGAACCAAGATTGCAACAAATGGTGTGTCAT  
GTCATGACCGTGTGCTTACACAAATTTGGTCACTCAATTCAAGACTTCATTGAAGCAGAAGAT  
GACCTTTTCATCTTTAGAGCAGCTGCCATCACATCGGACATATTGGAGGCCCTTGGAAAGAGA

Table 4

CGGTCACTTCACACTCTTTGCTCCCACCAATGAGGCTTTTGAGAACTTCCACGAGGTGTCC  
TAGAAAGGATCATGGGAGACAAAGTGGCTCCGAAGCTCTTATGAAGTACCACATCTTAAAT  
ACTCTCCAGTGTTCTGAGTCTATTATGGGAGGAGCAGTCTTTGAGACGCTGGAAGGAAATAC  
AATTGAGATAGGATGTGACGGTGACAGTATAACAGTAAATGGAATCAAATGGTGAACAAAA  
AGGATATTGTGACAAATAATGGTGTGATCCATTTGATTGATCAGGTCCTAATTCCTGATTCTG  
CCAAACAAGTTATTGAGCTGGCTGGAAAACAGCAAACCACCTTCACGGATCTTGTGGCCCAA  
TTAGGCTTGGCATCTGCTCTGAGGCCAGATGGAGAATACACTTTGCTGGCACCTGTGAATAA  
TGCATTTTCTGATGATACTCTCAGCATGGATCAGCGCCTCCTTAAATTAATTCTGCAGAATCA  
CATATTGAAAGTAAAAGTTGGCCTTAATGAGCTTTACAACGGGCAAATACTGGAAACCATCG  
GAGGCAAACAGCTCAGAGTCTTCGTATATCGTACAGCTGTCTGCATTGAAAATTCATGCATG  
GAGAAAGGGAGTAAGCAAGGGAGAAACGGTGCGATTACATATTCCGCGAGATCATCAAGC  
CAGCAGAGAAATCCCTCCATGAAAAGTTAAAACAAGATAAGCGCTTTAGCACCTTCCTCAGC  
CTACTTGAAGCTGCAGACTTGAAGAGAGCTCCTGACACAACCTGGAGACTGGACATTATTTGT  
GCCAACCAATGATGCTTTTAAGGGAATGACTAGTGAAGAAAAAGAAATTCTGATACGGGACA  
AAAATGCTCTTCAAACATCATTCTTTATCACCTGACACCAGGAGTTTTATTGGAAAAGGAT  
TTGAACCTGGTGTACTAACATTTTAAAGACCACACAAGGAAGCAAAATCTTTCTGAAAGAAG  
TAAATGATACACTTCTGGTGAATGAATTGAAATCAAAGAATCTGACATCATGACAACAAATG  
GTGTAAATCATGTTGTAGATAAACTCCTCTATCCAGCAGACACACCTGTTGGAAATGATCAAC  
TGCTGGAAATACTTAATAAATTAATCAAATACATCCAAATTAAGTTTGTTCTGGTAGCACCTT  
CAAAGAAATCCCGTGACTGTCTATACTAAATTTATAACCAAAGTTGTGGAACCAAAAT  
TAAAGTGATTGAAGGCAGTCTTCAGCCTATTATCAAACTGAAGGACCCACACTAACAAAAGT  
CAAATTTGAAGGTGAACCTGAATTCAGACTGATTAAAGAAGGTGAAACAATACTGAAGTGAT  
CCATGGAGAGCCAATTATTAATAAATACACCAAAATCATTGATGGAGTGCCTGTGGAAATAAC  
TGAAAAAGAGACACGAGAAGAACGAATCATTACAGGTCTGAAATAAAATACACTAGGATTT  
CTACTGGAGGTGGAGAAACAGAAGAACTCTGAAGAAATTTGTACAAGAAGAGGTCAACCAAG  
GTCACCAAATTCATTGAAGGTGGTGTGATGGTCATTTATTTGAAGATGAAGAAATTTAAAGACTG  
CTTCAGGGAGACACACCCGTGAGGAAGTTGCAAGCCAACAAAAAAGTTCAAGGATCTAGAA  
GACGATTAAGGGAAGGTCTTCTCAGTGAAAATCCAAAAACCAGAAAAAATGTTTATACAAC  
CCTAAGTCAATAACCTGACCTTAGAAAAATTTGTGAGAGCCAAGTTGACTTCAGGAACCTGAAAC  
ATCAGCACAAAGAAGCAATCATCAAATAATTCTGAACACAAATTTAATATTTTTTTTTCTGAAT  
GAGAAACATGAGGGAAATTTGTGGAGTTAGCCTCCTGTGGTAAAGGAATTGAAGAAAATATAA  
CACCTTACACCTTTTTTCATCTTGACATTAAGGTTCTGGCTAACTTTGGAATCCATTAGAGAA  
AAATCCTTGTCCAGATTATTACAATTCAAATCGAAGAGTTGTGAACTGTTATCCCATTGA  
AAAGACCGAGCCTTGTATGTATGTTATGGATACATAAAATGCACGCAAGCCATTATCTCTCCA  
TGGAAGCTAAGTTATAAAATAGGTGCTTGGTGTACAAAACCTTTTTATATCAAAGGCTTTG  
CACATTTCTATATGAGTGGGTTTACTGGTAAATTATGTTATTTTTTACAACATAATTTGTACTCT  
CAGAATGTTTGTATATGCTTCTTGAATGCATATTTTTTAATCTCAAACGTTTCAATAAAACC  
ATTTTTCAGATATAAAGAGAATTACTTCAAATTGAGTAATTCAGAAAACTCAAGATTTAAGTT  
AAAAAGTGGTTTGGACTTGGGAACAGGACTTTATACCTCTTTTACTGTAACAAGTACAAATTA  
GTGTAGCAGGTTAAAAACACCTCAGGGATTTACAGCCAAATTTGACCTATATATATTTTTTAAT  
CATCATATATCTGCTGTTTCTTCAATTTTCTCAATTTCCACACGCTATAAATTTAGATCGGC  
CAATAAAGT

&gt;234

NNNNNNNNCCGCCCGGGCAGGTACAGTATAGGTTGGTTTTGCCTGTTTTGACGCTT  
TATATATACGTAGACACACATACACATGTATATATACACACACACATTTTACATATATATGA  
AACTGTATAATGTGTTTCGCTTCAGTGTCTGGCTGCTTTTACTCAACATTGTGAAATTAATTCCT  
GTTATCGTATATGGTATCAAATTTGTTTGCCTAGTTTTTGCCTTCTCATTGCTTCTGAATTGGG  
GCAGCTTTGCCCTCAAGGGAAATTTAGCAATGTCTGGAGACATTTTTATTTTCATAATTTG  
GAGGGACATGGGGAGTTGTGCTACAGAACCTTAGTAGGTAGAGGACAGGGTTAGTGCTGAA  
CGTCCCACAGT

&gt;235

&gt;236

TATAGGGAGTCGACCCACGCGTCCGCTTAAAGAGGAAAAGAGGGAAGAAGATGAG  
GAGAATGACAATGATAATGAAAGTGACCATGATGAAGCTGACTCCTAAACCAAAGTGCTTT  
AAAAACCAGCCTGGCGAGGACAGCCCTGGACCCACTCCACTGTCTCTAAGTAAACACAGCA  
CTGCCCGCTTTTAGCGTCTTCACTTCTTACAGAGTTCCAGTGCGTGGTATTCTTTCGAGGT

Table 4

ATTCTTTCCAGGCCGAGATTGAGCACCTCATGTACCTACGCCACAGACAGCCAGAGGGAAA  
GCGACCCAGACAGCAGCCCCCTCCTCGACAGGCCACCCTGCAGCTCAGGCACCAAGAAAA  
CAGCCGATACTGGCAGCCATTGCAGCTCCAACTGCAGAGGCAAGGCCAATTTTAACTTTTC  
AATTTACAGTCGATTTTGAAGAGCTTCTACATATCGGTTATGTAAATTCATATATGTATTTTGG  
GAATCAGTTCTTATAAACAGCTCGATTAGCTTAAATTTATAGTTTAGGTAGTATGTTA  
CATTTGAATTTTGTCTTAAGAAAAGTTGACTGTTGAGATATTTTCTACTGTAAAGAAATATA  
CTTTCTATTAAAGATCTGTACATATTTTACAGTAAATGCTTTATGGAAGTATTTTAGAGC  
CCTCTATGGCTTAAAGGCCTTGCTTACTGCTGCAAATTTGAGAAATTTAAAAATAAGCATTCT  
AACACTTTTATTCCACAGAAAAATTTCCAAGTCAATTATCAAATCAAACACAAAAATAAGTCTT  
ACCTCTTGATAAGCATTGTGTACTAAAAAAAATTTTGAACATTTTGTATATTGGAGATCTC  
TCTCATCTTAACGTCTTTGCTTAAATCCTGGGCCTCTTTAACGGGATTAGGAGAAAACTAT  
TAGCCCATTTTTTTCCCTCAGGGGAAGTGGGCCCCCACACCCACCCTGTCAAAGCGCT  
CCCCCGGGCCNNNNNNNNNNNNNNNNNNNN

&gt;237

ACGCGGGGGGACGTAAGGTGGGGCGGTGAAAGAAGTTTGCTGACGAAGATGGC  
GACTGAGGCACAGAGTGAAGGGGAGGTGCCAGCCCGGAATCCGGCCGGAGTGATGCCAT  
CTGCAGTTTTGTGATCTGCAATGATTCTTCCCTTCGAGGTCAGCCATTATCTTTAATCCTGA  
CTTTTTGTGGAGAACTCCGACATGAGAACTGAGATTTTCACTGAGTTGGTGGTCAGCA  
ATATCACAAGGCTCATCGATTTACCTGGAATGAGTTGGCTCAGCTGATGGGGGAAGTGGA  
CCTTAAGTTGCCTGGCGGGGCTGGCCAGCATCAGGATTCTCCGGTCTCTCATGTCTCTC  
AAGCGAAAGGAAAAAGGAGTGATTTGGGTCCCACTGACGGAGGAAGGCATTGCCAGA  
TATACCAACTGATTGAGTATCTACACAAAACTTGCGAGTAGAGGGTTTGTAGAGTACCG  
GGTAATAGTGTCCGACAGCAGATTTAAGGGATGCTCTCAATAATGGAAGTACATTGACTT  
GGAATCAGGGGAATTTCACTCAAATGATTTGCCACTTTGCTGAAGATGTTTCTAGGAGAGT  
TGCCGGAGCCTCTGCTGACACATAAACACTTCAATGCACACCTCAAATCGCTGATTGTG  
CAGTTTGATGATAAAGGAAACAAGACCAATATACCAGACAAGGACCGGCAAATTGAGGCTCT  
CCAGTTGCTCTTCTCATTCTCCCTCCTCCTAATCGTAATTTGCTGAAGTTATTGCTTGATCT  
CCTATACCAGACAGCAAAGAAACAAGACAAGAACAAGATGTCAGCCTATAACCTTGCCCTTA  
TGTTTGACCCCACTGCTGTGGCCAAAAATGTCACTGCAAATGACCTTCAGGAGAATATC  
ACAAAGTTAAACAGTGGGATGGCTTTTATGATTAACACTCCAGAACTTTTAAAGGCTCCT  
GCTTATATTCGGGAGTGTGCGAGATTGCACTATTTGGGATCCAGAACTCAGGCATCAAAGGA  
TGACCTTGACCTCATAGCTTCATGTCATACTAAGTCCTTTCAGCTGGCAAAGTCTCAGAAACG  
GAACCGGGTAGATTCTGCTGCCCTCACCAGGAGGAGACCCAGCACCATACGGAAGAGGCACT  
GAGAGACTGTTTCAACACGTTTATGATATGCCAGAGTCAGCAAAGAAGAAACAACCTTATTA  
GACAGTTTAAAGCAATCATTGACCCAGACACAGGGCGAGAACCTTCTACTTCCCAGGTA  
CAAAAGAGGGCTCGTTCGCGCTCCTTCAGTGGGCTTATTAAGCGGAAGGTCCTGGGAAATC  
AGATGATGTCAGAAAAGAAAAAGAAGAACCTACTCCAGAATCTGTGGCCATTGGTGAATTG  
AAGGGAACCAGCAAAGAAATAGGAACTTATTATTTCTGGCTCTCCAGCTGTCACGATGAC  
ACCAACAAGATTGAAGTGGTCTGAAGGGAAGAAAGAGGGGAAAAAGGATTTCTCTGAAGG  
ATCCAGAGTTGTCTCCTATGGTCCATGCAGAAATTTTCTGTTTATGTTGGGCAGGTGTTATTCTG  
CCCACAGCAAAGCTTGACTTGACGCTTGCTTGCTGCATTTTGAATTGTCAAAGCCAACTAA  
TACCGTGACCCGACTGATACCTCTAACCCCACTCACTGGATGATGTTTGCAAGCTGTGCCTT  
CTGAGAGAGTGCTTAGGCCCTGTCTCTCTTTTAAATATTATGGGGAAACCACTAACTATCCA  
ACCAGCTTATACAGCACACTAAGGTGGGCTTCAGTGCTCACTCAATGTGTTTAGGCAGATTCT  
CACTTTTGAAAAAAATATGAAATGTGTGCTCAACTGCCAGTAATTTTTTAAAAAGCACTGTCC  
CAGTGGATTGATGTTGTTTTAATGGATATTTTGGGTTTTCTCTGTTTTGATAGTATTGGGTA  
TTTGGTTGTTTTGTTTGTATTTCTTTGTTTTAAAGCCATGTTTTGGTTGGGCTCTAAGCT  
AGATATCTTCCCTCTTTTCACTTTGAGCTTTGGGAAACTCTTATCTTATGAGGCTGTATT  
CCTCAATACCTAATTTGTGTCCAAAGAAATTTATAGCTCTTCTGGACATTTTTTATTATTTCTTG  
GGTGTGACATCAGAGTATTTGACCTGCAGTATTGAAAAAGGAGAATTCAGAATCAGATCAGTA  
TTTTAACAAATCTTAATTATTAACCTCTTTCTTCTTCCATTTCTCCCTCCCTGTCCATCTC  
TCTCTCTTTCCCTTCTCAGTGATGTGAAAATAATTGTGTTTTGCTGAACTTGTATCTTC  
ATTCAATTTCTCTTGAATAAACATCTCTGGTGCCAACGTAATACTTCTGAACCACATCACT  
GTGACTCAAGGAAAGTCACTGACAGCATAAGAGAAGTTTGCTAAAATATTTGTATGTGGGGG  
AAGCTCTGAGTGTGCTAGGAGGGGGCTGCTGCTTTATGTCCCAGGATGACTCTTTAT  
GGGTGGGATTACATTGCACCCTCTGAGGGTGCAGGCTAGACCGTCTCCTGAGAGGAAGTTA

Table 4

GGATCAGAAAGAAGAAGCAAGCAGCAGCCTCTGCAGGGCTGACAGGATTTAAAGGAGAGAA  
 TGTTCTTATTTGGAAGCAGCTGTGGCTTGTACCAATGTTCAAGGAGTGTTACTGTTCCGCC  
 CTCTCTTTGTCAGAAGGGACACAGGTGGTAATTTGGAGATGGGGCCAGAGCTTCTGGCTTTT  
 GGATTTGGTGTGTTCACTTGTGTTGGATAGAGCAGTGGCATGGCTTTGACCTAGTATGAACT  
 GGTGTCTGCCCAGAGAGCAGCATGTAGCAGGGGGGAATGCTCAGGTTTGTGCCTGGCTCT  
 GTGGAGCTGTACAACCCCTTCTCACCTGTGGGTTGGAGCCGAGTCAGGCCACTATGGGGAA  
 GCAGTTGCCCCACAAAATGTGGTTTGTGACCTATTTCTAACTGTTGAATATGCTGCACCAT  
 TGCTGAAATGAAAGATGACTCTGGGGGAGCAGAGCTTGGCCTTGTGCCAGCTGGCAGCCC  
 CCTCTGCCAGCCTTTCTGCTGCTTTTGTGCTGTAAACAGCAATAGTGGAGAAAAATGTA  
 TGGTCTTCCAGCTTAATGCAGTGTGAACAATAGATGGTTAGGAAAACAAAAGTCTTAGAA  
 GCCCTTTCTCTAGAGCAGTTTTATGTCATTTGAAAAACACATATTAGCAAATTCGTTGCGG  
 TAGGTTTCTATTCAATATTTGACTTTTTTTTTCTTATTAAGAAAATGAAATCCCTTACACCAGAT  
 ATCAGTTAATCAAACAGAAAACCCCTTTGGGTATCANNNNN

&gt;238

NNCTCAGAGGATTACCGACCCACGCGTCCGCAACATCCTGGCTTAGTATTGTGTGC  
 AAAATCAGAGAGGGGTGCAAGATCCTGATTTTTCAGGAGTTCAAGCGACAATGGCAGCCCA  
 ATACGGCAGTATGAGCTTCAACCCACGACACCAGGGGCCAGTTATGGGCCTGGAAGGCAA  
 GAGCCAGAAAATCCCAATTGAGAATTGTGTTAGTGGGTAAAACCGGAGCAGGAAAAAGTG  
 CAACAGGAAACAGCATCCTTGGCCGGAAGTGTTTCATTCTGGCACTGCAGCAAAATCCATT  
 ACCAAGAAGTGTGAGAAAACGACGAGCTCATGGGAAGGAAACAGAACTTGTGCTAGTTGACA  
 CACCAGGCATTTTCGACACAGAGGTGCCCAATGCTGAAACGTCCAAGGAGATTATTCGCTG  
 CATTCTTCTGACCTCCCCAGGGCCTCATGCTCTGCTTCTGGTGGTTCCACTGGGCCGTTACA  
 CTGAGGAAGAGCACAAAGCCACAGAGAAGATCCTGAAAATGTTTGGAGAGAGGGCTAGAAG  
 TTTCTAGATTCTCATATTCACCCGGAAGATGACTTAGGTGACACCAATTTGCATGACTACT  
 AAGGGAAGCTCCAGAAGACATTCAAGACTTGATGGACATTTTCGGTGACCGCTACTGTGCGT  
 TAAACAACAAGGCAACAGGCGCTGAGCAGGAGGCCAGAGGGCACAGTTGCTGGGCCTGA  
 TCCAGCGCGTGGTGAGGGAGAACAAGGAAGGCTGCTACACTAATAGGATGTACCAAAGGGC  
 GGAGGAGGAGATCCAGAAGCAACACAAAGCAATGCAAGAACTCCACAGAGTGGAGCTGGA  
 GAGAGAGAAAGCGCGGATAAGAGAGGAGTATGAAGAGAAAATCAGAAAGCTGGAAGATAAA  
 GTGGAGCAGGAAAAGAGAAAAGCAAAATGGAGAAGAACTAGCAGAACAGGAGGCTCACT  
 ATGCTGTAAGGCAGCAAGGGCAAGAACGGAAGTGAGAGTAAGGATGGGATACTTGAATT  
 AATCATGACAGCGTTACAGATTGCTTCTTTATTTTGTACGTCTGTTGCGGGAAGATTAAAC  
 TTAATGAAAATCTGTTTGTATTTCTGCATATTCTCTGGCAACCTTGCCCCATACTTACTTATT  
 TAGCATAGTCGAGTGCTCTAGTTTCTGTCTCTCAGGCACTCGTAACTAAGGACCACCATTGG  
 CCATTGGTAGATGTTTGATTGACTTAACAAGAGAGGGACAAATTTTCAATTTGTGAACTCCA  
 AAGCAGAAAGTATTGGTGCTTGCTACCTTGTAATTCTTCTTAGACATGCAGAGAAAATGTA  
 TGCAAGAGACCAAAAAGATGGCTCCAAGCTATGTCATGTTACCTGTAATAAAATCTTTCTTC  
 TAGATTCTTTCTATGTTGGCAGATAATCTCCCCTTGAGCTTCCACTCACTTATTCTTGCAATC  
 AGAGTCACAATGATCATCTTACCCATGTGGTTTGGAGAAAGAAAGATCAATTCTTTGTTTGC  
 AGTAGGTAATCTTAGAGATGGAGATGATTGTAATTATTCTAGATGAGTGTCAATTTATTT  
 AATTCCATTGTCATATAAGGAGTCAAATTGTTTCTTATCATTTGTTCAATTGAAGAACAGAGACC  
 TGTCTGGAATTCGATCTCTACAAATTCAATTAATAATGATCCCCAAATGCTGAAAAAGTGA  
 AATACAGCAATTCAACAGATAATAGAGCAATGTTTAGTATATTACAGCTGTATCTGTAGAACT  
 CTTTGACGAACCTCAATTTAACCAATTTGATGAATACCCAGTTCTCTTTCTTTCTAGAGAAAGA  
 TAGTTGCAACCTCACCTCCCTCACTCAACACTTTGAATACTTATTGTTTGGCAGGTCATCCAC  
 ACACTTCTGCCCCCACTGCATTGAATTTTTGCTTATGTTGTTTATAATAAACTTTTCAATTAT  
 CTCAAAAAAAAAAAAAAAAAANNNNNNNNNNNNN

&gt;239

NNNNNNNNACTTAATTTTAACTACCTGCCACCTTAAGGCGGACACCCTCCCTTCC  
 CCGAAAACCCGTTTTTTTAAACATTATATCAAAAACCTCAAAGGTGATCGTATTAACAGATCA  
 ATCTCAAAAATCTTTCCCAACACAGGTACCAGTTAAGTGAACAGCTCGTCTAGGTCTGCTTT  
 TGTAACACCCAAATAAATAGCACTTCTCTGCTGGTATTCCCTGGGCCGTCTTAATTATCTA  
 GAGGCCAGGAGGCAAGCCTAGCACGTAACAAAGTATGTGCTTTGTAAGTCTGATTAATTC  
 AGTTTCTTAAGTAGGCAGAGCAGGTGATCAGTGTATCTAATTCACACTATTAATACACTGTCT  
 TGCTGAAGAGTCTGACCTGCCAGAACCCCGTTATGGCTAGCCCAGGGAAGCAGTAAAGTCTG  
 CAAAGCAGAGAAAAGGGGCAGCTAAGATGAGGCTAGTGCTGGCTGAGTCCAGTTAGGTCT

Table 4

GTTACTGTTCTGTTCCAACTATAAATCCAGGATGACTGTTACTCAGATTCAGTGCTATGTAGA  
AAATAGAATGCACAGCCAAAAACATAATTTGGGGATGACTGGCAGCACCTTTTTTCCCTTC  
TTAAGAGGCTAACTGAAAGTTGATTAGGATTCTTGAGAGAACGTAACATAAAAGTTGAATCAA  
TCTATATTCAGTGCTATAGATTTAATAAAAGGAAAGACCACTGTAAAGATGCAACTACAACCT  
GATGCGTCTGCTGAGGAGAGGACTGGGCAGCTTGTTGAAGGCTCGTCAAAAGTAGCGCTTA  
GTTATCACAAGGCCTGCACTCAACCTCAAAAGCGTAAGGTTTAGGCCAGGCACGGTAGCTC  
ATGCCTGTAATCCAGCACTTTGTGAGGCAGAGGCGGGTGGATCACCTGAGGTCAGGAGTT  
CCGAGACCAGCCTGACCAACATGGCAAAACCCTGTCTCTACTAAAAATACAAAAATTAGCTG  
GGAGTGGTGGCGCACACCTGTAGTCCCAGCTATTGGGGAAGCTGAGGCAGGAGAATCACTT  
GAACCTGGGAGGCAGAGGTTGCAGTGAGCCGAGATCACATCACTGCACTCCAGCCTGGGC  
AACAGAGCAAGACTCCGTCTCAAAAAAAAAAAGCATAAGGTCTGCCTACCTCATGGGCACCC  
AAACAGTTCAGTGCCAACTAGTACCAGTAAAGCCATGCCTGCCTCTTTCACCAACAGTCCA  
GAGTATATTTCAAAAATATCTTTATTAACCAAGGAAGCAATTACTGCAACATCAGGACAAAG  
GACATTCTAATCTAGGACTTGAGTTAAATAGAGGTTTACACCTAATCACAAGAAGAGAGGGA  
AAGCAATTACGTGTGCTGAAACCAAGTTTCATCAATGACAAATATTTTAAATGACTTTTAAAA  
TACTTAACATTGGCCAGGCACGGTGGCTCCCGCTGTAAATCCAGCACTTTGGGAGGCCCA  
GGCGGGCAGATCACTTGAGGTGAGGAGTTCAAGACCAGCCTGGCCAACATGGTGAAATCCT  
GTCTCTACTAAAAGTACAAAAATCGGTGGGCGGTGGTGGCACACACCTGTAAATCCAGCTAC  
TTGGGAGGCTGAGGCAGGAGAATCGCTTGAACCTGGGAGGTGGAGGTTGCAGTGAGGCAA  
GATTGCGCCATTGCACTCCAGCCTGAGGGACAGTGAGACCGGACGCGTGGGTGACNNN  
>240

NGGCGGCCGAGGTACTTTTGC GGCCGAGGTACTTTTTTTTTTTTTTTTATGATTTT  
GATGGCTAGTTGTCTTTTATTAGCTATCAAGTTCATTTAACAGACAAAAAATTCAGTTCATG  
TCATTCATTAATAAGGAAGAATTAACAAATAGTTCATTAATCAATCTTTCAGTCTTCTATTTT  
ATCACAATAACTTTTCTATAATTGAGAGATTCATGAGGAAGTCTTGAAAAGAACGTATGTTT  
CTTTCATTCATAAAACATTCAGTCAAAATAATAAAGAGGCGCTATTACTTTGTTTTGGGTG  
AATGATATGCAGGCTAGGCTTTGCTGTAGTACCTCGGCCGCCACCGCGGTGNN  
>241

NNGAGGATCCATTATCTTCTGTTTGCTTTGCTCTTCCTGTTTTTGGTGCCTGTTCCAG  
GTCATGGAGGAATCATAAACACATTACAGAAATATTATTGCAGAGTCAGAGGCGGCCGGTGT  
GCTGTGCTCAGCTGCCTTCCAAAGGAGGAACAGATCGGCAAGTGCTCGACGCGTGGCCGA  
AAATGCTGCCGAAGAAAGAAATAAAAAACCCTGAAACATGACGAGAGTGTTGTAAAGTGTTGA  
AATGCCTTCTTAAAGTTTATAAAAGTAAATCAAATTACATTTTTTTTCAAAAAAAAAAAAAA  
AAGTAAAAAGT  
>242

NNATGTGGTTACGACCCACTGTATTGAGGTGACGCGATCCATAGGCTGTGGTGTTT  
GTTTTCGCTGATCCACACAAACGTTGGGGCACTGTCTATTTCATGTGTTCAAGCTGAAGGCTC  
GTTCTCGGTTGTCATTTTACAGTGTTTTTCTACGGGGTTACATTACAGGAATGTTGTAGCGAC  
GTTTAGCCCGTGGAGTATCAACGTCTTGAGACTCCGTGTGAGACTCCCTGGTTTGTTCCACA  
ACAGTGTTGTTTTAGATTCCGTACCTTTGATTAAGGAACACATCATGCCGTGAAGCCAATTTA  
TATTCTGCAATTCCGTAGTGCATGTAATGTATTCTGCCGTCTCGTAGTGTGAAGCCATGCTTG  
GCACATCCAGTTCTTTGATGTCTGGCTGCCTTCTGCGGGCCAAGTGTCTTGTTGAATTCGTT  
GCTCCCAGAGATAGCTTGAAGTGCAGATCCCGCACAGCATTGCACTGAGCTGTCGTTGTATC  
TGAGCCTGGACATGGCGGCCGAGGTACTCACAGTCACGCAAATTCACAGTCTGCGTGCACG  
GCTCTCCATTCTTCTTCTTGGCTTTACAGGTTCCAGGTCAAGAGCTTCACCCATAATTAAGA  
CCTTCTGAGGATGATCGATAGATAAACACACCTCCTCTGAACCATCCTTGGGCTTCATGGGG  
TTGGCATTGAGGATCCCTACGACAGTCCCTGCTCCGTCTTCAGAGCGCTTTGTGAAGTTT  
TCCAAATAAGAACAAAGGACACACATTGTGTGAGGTACGGAAGATCATTACAGTTTCCATATGCT  
GAAGGTTTTTCCACTATTACACTCTGTGGCGTAACCTTCTTCAATATAACCCCAAATGTCAC  
CCAATCTATTTCTTCCAGCTTCTCTCTGGCCATCTTTTCTTGATCTGAGACAGTCTGATCAG  
TTTTCGGCCGGTTCATGTGTCTTCGTTTCATATTCTCTGGAGGATACTCGAGCCCGCCTCGAGC  
CGCAGACCAGGAGAAGGCTTCCACACAGATGGCGATTGAGTCGTTTCTTCCAGAACTTTC  
ACTCGGGGTCCACCACATATTTGACCTCTAGTTATCCCACTAGGTTTGTTCGAGAAATCGT  
CTGTAGGGGTGGGAGGGTGCACCTGTATCCTTGAAGATGAGCTTTTGGGATCTGGAGGT  
GAAGCCTTTGGTGTTCGAGCCACCCTCTTGTTCTTGGTAGCGCAGGGACATCAAGTCCG  
CAGAAAAGCATGTTGACTCCTGAATTCTCTGAAGTCTCCTCTCCTTAAGAGGTGGCCGGGGA

Table 4

GACTTCTCAGGGGATTTTTGCAGACGGGCTGGGCTTGCTGTCTGTTTAATTGTTGTTACTTTT  
AGCTGCTCTTGTAAGGCCTTCATTTGCTCTTGCAAATTCCTTAATTCCTCTTGCAACTCTTCAT  
TCGTTTTCTCTCGCCTGGGGGACAGGAGCAGGGAGGACCCTATTTTCAGTTGACTGTGATGC  
GGGAACCTTCTTCTTCATCTGTTAAGTCTCCATATCTCCAAAGAGAGTGGCCAGATTTTCTCT  
TTCGTCTCTTGCTCTCCTGTTTCTCCATCATCAGCCTCTTCTGTATAAGATTACCCGTCGCC  
GTCGGCATCAAAGAGCTCATCAAATGCGTCGGGCTCGCCATTTTCCCGCGTCAAGAAGTTAT  
TTTCTTCTGAATTACAATCCAAGGCTGACTCATTTTCTTCCAGCAGTGCGGTGTCAGCAGAGACA  
GATTGTCTTCCTCCTCATCCATGCTGTCAAGAGGACAGTTGTGACAGGAACTTCGAAGGAG  
GCTCAGATGCCAGATGAGCAATGTAGAATCTTGCCGATGCCGGGACGCCCTTCTTCGTTCT  
ACAGCTGAACCCGCCAAAATCGGACNN

&gt;243

NNCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGTGCTGGGATTACAGGCACGAG  
CCAGTGCGCCCAGCTGCCTCTGTTTCTTTTATTAGCTGTTCTGGACTGTGGGGCTCCTTGGG  
CAGATGCTGTATTATGGGGATAAGCCACACACTTTTTGAAGTGGCCGGTCAGGGGGGACA  
TAACCATTTCCCTGTGCCACCCCATCAATCCCCACTATTCTGAGTGTAGGCTCCTCCCCTGC  
TTGAGTAATGGCCACAGATCTTGGCTCGGCACTCCTAAGCTGCATGTTGAATTCCTGGGACA  
ACAAGACTGGCTTGTTGTTCCATTCTCCAGATCCTTGGGTTGGCTTCTGGGTGCACTAGGAG  
ATCTGAAATGCTCTCAGGCCACCAGGAAAGTACTGGAAGTAAAGTCTGACTCTAAAGAAGAT  
GAAAATCTAGTAATTAATGAAGTAATAAATCTCCAAAGGGAAAAACGCAAGGTAGAATCAT  
CAGACAGCTTGTGCTTGTAGTTCTCAATGCACGCAAGGATCTGAAAAGTGTCTCAGAAGAC  
TACTAGAAGAGACGAAACGAAACCTGTGCCTGTAACCTCTGAGGTGAAAAGATCAAAATGG  
CTACTTCAGTGGTCCCGAAAAAGAATGAGATGAAGAAGTCGGTTCATACACAAGTGAATACT  
AACACAACACTCCCAAAAAGTCCACAGCCATCAGTGCCTGAACAAAGTGATAATGAGCTGGA  
GCAAGCAGGAAAGAGCAAACGAGGTAGTATTCTCCAGCTCTGTGAAGAAATGCTGGTGAA  
ATTGAGTCAGATAATGTAGAGGTAAAAAAGGAATCTTCACAAATGGAAAGTGTAAAGGAAGA  
AAAGCCCACAGAAATAAAATTTGGAAGAGACCAGTGTTGAAAGACAAATACTTCATCAGAAGG  
AAACAAATCAGGATGTGCAATGTAATCGTTTTTCCCAAGTAGAAAAACAAAGCCTGTGAAAT  
GTATACTAAATGGAATAAACAGCTCAGCCAAGAAGAACTCCAAGTGGACTAAAATTAAGCTCT  
CAAAATTTAACTCTGTGCAGCACAAATAAGTTGGACTCTCAAGTTTCCCCTAAATTAGGCTTAT  
TACGAACCAAGTTTTTACCACCAGCTTTAGAAATGCATCATCCAGTGAAGTCAAGTACATTTT  
TAGGGACAAAGCTACATGATAGAAATATAACTTGCCAGCAGGAAAAAATGAAAGAAATTAATT  
CTGAAGAAGTGAAATTAATGATATTACAGTAGAAATTAATAAAACCACAGAAAGGGCTCCTG  
AAAATTGTCATTTGGCCAATGAGATAAAACCTTCTGACCCACCATTGGATAATCAGATGAAAC  
ATTTCTTTTGATTGAGCATCAATAAGAATTTAGCCAATGTTTGAATCCAAGCTAGAAAAACA  
GTCCAGTGGAAATGTTACTGCTGCTTCCAGCTCTGCTCAGTCAAGCAAAAATTTGATACAGGA  
GAGAATAAATTTCCAGGTTGAGTCTCCCAACAGCATAGTATTCTCAGTAACCAGACATCTAAA  
AGCAGTGATAACAGGGAGACACCACGAAATCATTCTTTGCCTAAGTGTAATTCCTATTTGGA  
GATAACAATTTCAAAGGACTTGAACTAAAAGAAGCAGAGAAAAGTATGAAAAACAGTTGAT  
TATAGATGCAGGACAAAAAAGATTTGGAGCAGTTTCTTGTAAATGTTTGTGGAATGCTGTATAC  
AGCTTCAAATCCAGAAGATGAAACACAGCATGCTTTTCCACAACCAAGTTTATAAGTGCTGT  
TAAATATGTGGGCTGGAAGAAAGAAAGAAATCTGGCTGAATACCCTGATGGCAGGATAATAA  
TGTTTCTTCTGAAGACCCAAAGTATGCCCTGAAAAAGGTTGACGAGATTAGAGAGATGGTT  
GACAATGATTTAGGTTTTCAACAGGCTCCACTAATGTGCTATTCCAGAAGTAAAACACTTCTC  
TTCATTTCCAATGACAAAAAAGTAGTTGGCTGCCTAATTGCGGAACATATCCAATGGGGCTA  
CAGAGTTATAGAAGAGAAAACTTCCAGTTATCAGGTGAGAAGAAGAAAAAGTCAGATTTGAAA  
GGCAAAAAGCCTGGTGCTGCTCAACATTACCAGAGCCTGCAATCTGCGGGATCAGTCGAAT  
ATGGGTATTGAGCATGATGCGTCGGAAGAAAAATTGCTTCTCGCATGATTGAATGCCTAAGGA  
GTAACCTTATATATGGCTCATATTTGAGCAAAGAAGAAATTGCTTCTCAGATCCCACTCCTG  
ATGGAAGAGCTGTTTGAACACAGTACTGTGGCACTGGTCAATTTCTGGTATATAATTTTATTA  
ATGGACAGAAATGACAGTAAACAAATTTCTGCTACACCACTAGAAGACATCTATTGAAGA  
GAATGGATTGGTTGCTGACTTTAACCAGGAAGTGGGCCATTTTATTACAATGAACTCAGGA  
CTGGCAACAACCATATGGTTGTTCCATTTTCAAAAATTGGAACAATGCAGTAATAGCTTAT  
TGTTTTGTTTTTAAAGAAGATATTTTATTATCTTTACAGAAATTTATGATTGATGATTTTATC  
TATAGTTATTTAGACATGTTTACATGCAGCAGATAATTGTTTATAGTGGACTGAAAACATG  
CAAGGACTATGGTCTCAGTGATAAGTATATTTGAAGTTCTTAATATGAAATATACCAAGTGT  
AGCTTGGTACTGTATTTTTTATATTGATCTGCTGATACCAGTGATAGGCTTAAAGATTGATT

Table 4

TTCACAGAGTGGAACCAATTTTTTTAGTTATTGTTCAAGGAGGGTGCAATATTAAGTGTTTT  
 GGAATTTGAAGCTAATTTTTAAAAGGCCTGAACCTATACTTTGAAGAAACCCCTATAGAAAAGG  
 AAAGCTCCAGCTAAATAGGAAGAATTAGAATATTGAGCTTTTTTTTCTGATTTTTCTCTTTCC  
 TATCTTTGATGGAAGGAGGAAGTAGAAAGTGGTAAAGAATTGAGGCTTTCCTTCTTGGAGAG  
 CTGTAAATGACAAGCATTAGGAAAGGTACCCCTCCTAGATTCAATTATTCTTTTCATTCTGGTTTT  
 ACTTTTAAAATAAATGGCAACTTGGCACACCTAGGCTGTTAACAAATCTCAAAGAGGTTTATA  
 AAAACGTATAGAATACTTGGGAAGCAAAGTATGGATGACTCGGTATCTGCTTTGTTATCTCTCA  
 GAAATACTGCACTGAGTATATGCCCTCATTACTGGACTTCATTTTGATACTTGTCTATCCTTCA  
 TAGTGCCCTCTACTTTTAAAGGGTTTATATGTTGAAAACTGCTGTGGCCTTTTATGACCTGT  
 ATATAATGTAGAATAAAAATAATAAATACTTGATAGCTTTTTCTAAGTGACCAATGTACTACT  
 GAGGTGTAANNNNNNNNNNNNNNNNN

&gt;244

TTTTAGTAGGGATAAGGTTTCACCATGTTGGCCAGCTGGTCTTTAACTCCTGACCTC  
 GAGGGATCCACCCACCTCGGCCCTCCAGTGTGCTGGGATTACAGGCATGAGCCACGGCAC  
 CCGGCCCTGGTTTGCTTTCTGAACCATGTCAATACAGTACCACCACAGTTGCTATCTCTGA  
 ACATCTTTTCAATAAACATCACCGTCTAGTTTGAGAATACTTTTAAAGCCTGCTGGCCTCCTTT  
 GGGGCATTCTTTTTTCTCTTTTTCAGCACGCATCTTTCTTTTCCACTTACTCCGTAAGCTTTTAG  
 CCATGTTTTACCTTGAGGGCCGAAGTTAACTTCAGCGGGAGTGAACGACAGGGGTGGGCTC  
 CACTTTATCCAGTGCCTCGGAAGCCGGAGGGCCCCCACCAAAAAGAGCAAGGGGAACCCCT  
 CGCCCTCAACAAGGCCTGCATCTCCGGACTGGAGCTCAAGTATAG

&gt;245

NNATGGGGCAACGTGGAAGAAATGGCCAGAATTTNAACTGGTCATCAATGCGANCA  
 CTTTTTACAAAAGNCCAGAGCCAGAATAACCCCTTTCATTAATCTTCCCACCAACATCCTGAT  
 GGCCCTCAGTTCTGTACCTGGAATGCACATCCATAGTCACTGTGTACAATTGCTTGAGTGAG  
 TTCATGGTCCGTAGGAGGATGACCACTAGCCACCCACCTTCCACTGTTTCTACAGTCCTGGC  
 CAGCAAGTTTGAGTTAAGGCTTCAAAATCCTGCAGCACACACATGCCGAAGGTATTGCCCA  
 GGATCTTGTGGGTCTCGTTGTAGTAGCAGTAGCGAATGTTTGTGGCTGCTATGAAGAGTTCA  
 AAGGGGTCTGCTGCTTTATGTTCAAGTGTTCATTCTTTATTTTCTTCTGCAGCTGTGCGATT  
 CTTTTCTTCCGGTGACTGCTAAACCCAGCTCTTTCTTATAACACCACAGCACTGAAGGCCG  
 AGCCTTCACAGTTGCTTTGGATAACATGTGATGAAGTATTACCACCTGATCTTTTCTCGATC  
 CCCAACTACAACAAAGAGAGATCTTTGCCGCTCAGCTACTCCATTCTCAATGAGAATCCGGA  
 TTCGGTTATCCACCTTTTTCCGATGCATGGTGAAAAATTATTACTGCGCCCCGAGCCCCGGG  
 GATCCCAGCCAGTGGAGAAGGGGAAGCACGTGGGAGCACGGAACAACCTCCGAAAGAGAAG  
 GCACAGCTGACTGCCCTAGCGTATGCCTGGTGTCCGGGTACGTAAGCCTGGCTCCG  
 CGGCACGCGTCCCTCTCAGGAACCTGGTAGACAGCACGTGCGCAAGCGCATTAAAGTCGCA  
 GAGATGGCGAGCGAGAAGGGACCTTCTCAAGGCTGTGCGCTGAGTAATGACGTAAGCCACC  
 AGAAGCGGAGCTGAGGCCTAGATGTCCACTGCGGTTGCGCATTTTAGTCCCACTGCTCGCG  
 GTAGCTGGGTGTTGGCTGCGGTTTGCCTCTTCACTCTTCATATCCCAGCTAAAGTACCTCGG  
 CTAAGAAGGGCAAAATAGATGTCCGCACCCAGGGCCTGCCACGTAAGTCCAGGGTTTTC  
 AGCGTCAGCCTGGTTACGCGAAACGCGACGATGCAACGATTTGTGTTCAATTTAACCGATC  
 CCCGTTAAGTTGAGGAACTCGGCCAACAGACCTATTTTATTGGTTTCGCTTGGCCCTCCAC  
 CCCACAGTACTGATCTTACAGATGGGAATCCTGTAATCTACCCATGACTGCNNNNNN

&gt;246

GGGAGTCGACCACGCGTCCGGCCCCCTCGTCTGCGTCAGTTGGTCACGTGGTTGTT  
 CGGAGCGGGCGAGCGGAGTTAGCAGGGCTTTACTGCAGAGCGCGCCGGGCACTCCAGCG  
 ACCGTGGGGATCAGCGTAGGTGAGCTGTGGCCTTTTGGAGGTGCTGCAGCCATAGCTAC  
 GTGCGTTCGCTACGAGGATTGAGCGTCTCCACCCATCTTCTGTGCTTACCATCTACATAAT  
 GAATCCCAGTATGAAGCAGAAACAAGAAGAAATCAAAGAGAATATAAAGAATAGTTCTGTCC  
 CAAGAAGAATCTGAAGATGATTGAGCCTTCTGCATCTGGATCTCTTGTGGAAGAGAAAAAT  
 GAGGTGTCCGAGCTTGTCCAAAAGGAAACATCGGAATGACCACTTAACATCTACAACCTC  
 CAGCCCTGGGGTTATTGTCCAGAAATCTAGTGAAAATAAAAATCTTGGAGGAGTCAACCCAGG  
 AGTCATTTGATCTTATGATTAAAGAAAATCCATCCTCTCAGTATTGGAAGGAAGTGGCAGAAA  
 AACGGAGAAAGGCGCTGTATGAAGCACTTAAGGAAAATGAGAACTTCATAAAGAAATTGAA  
 CAAAAGGACAATGAAATTGCCCGCCTGAAAAAGGAGAATAAAGAACTGGCAGAAAGTAGCAG  
 AACATGTACAGTATATGGCAGAGCTAATAGAGAGACTGAATGGTGAACCCTCTGGATAATTT  
 TGAATCACTGGATTCATCAGGAATTTGATTTCTGGAGAAGAACCCTGCTGGACGATTCTCTAGT

Table 4

GGGAAGACTCGGAAATTGGCACGTGTTGCTTGAAGGAACTGGTTCTCTCTTTGCGGGGGCC  
GCCGCTTGTTAAAGCTTAATTTGCGGTGGGAATTAAGGCGAAGTTTACTCCCATTTTTGTG  
GGAGTATATACAACCTTATGGCCACGCCTGTGTACATTCCCGTCTGGAGCTGGGACCATTG  
GTTAGTACCATTCTTCTCGATACAAAACAGGGGGCGGCAAAATCCTAGGGCGGAAAAAT  
TACGCATTGTAAAGGGCGAAGAGTATAAAGAAGCACGGTAACCGGACAGACGGTCTTAGCA  
TGTTACTGAGCGCAAGCGCATAGTTCATGACCTAGTTGCCGTCTAGCACACAGTCGCACNN  
>247

NNNNCGCGGCCGCGTNCGACAGAAGACGACAGAAGGGTACGGCTGCGAGAAGAC  
GACAGAAGGGTACGGCTCGAGGTAGGCGGCGAGGCGGCGGCCGGAAGATGGCGGCG  
GCCGCAGAGTTGTCTGCTACTGGAGAAGTCCCTGGGACTGAGTAAGGGGAATAAATACAGTG  
CTCAGGGCGAGCGACAGATTCCAGTTCTTCAGACAAACAATGGTCCAAGTCTAACAGGATTG  
ACTACTATAGCAGCTCATCTAGTCAAGCAAGCCAACAAGAATATTTGCTGGGGAGTACTGC  
AGAAGAAAAAGCAATCGTTTCAGCAGTGGTTAGAATACAGGGTCACTCAAGTAGATGGGCACT  
CCAGTAAAAATGACATCCACACACTGTTGAAGGATCTTAATTCATATCTGAAGATAAAGTCT  
ACCTTACAGGGGTATAAAGTTACATTAGCAGATATACTATTGTAAGTATGGACTTCATCGCTTTAT  
AGTTGACCTGACAGTTCAAGAAAAGGAGAAATATCTTAATGTGTCTCGCTGGTTTTGTCACAT  
TCAGCATTATCCAGGCATCAGGCAACATCTGTCTAGTGTGTCTTCATCAAGAACAGACTATA  
TACTAATTCCTACTAGAAGCTGTCCATGCCATACAGAAGATCTATTAATAATGTTTTAAATGG  
AAAATGTAAGTCTAGACCACAGGACTAATGTAAATTAATATACAGTCATTCAATATTTGTTGAAG  
TTGATAGAATTTTTGAAGTGTAAACTTGTGTCTGAATGTTTTATTTGTTCTTTAGCTGAAGTTTT  
GCAATTTTTATGTCAAAATTCATTGCTATTAACAAGTTGAGATCCAGTTATAAATTAACCTT  
GTTTTTAGTAGATGACATTTATTTCAATAAAAGTTGCAAAATCGGGCTTAATCTTAACAAAAA  
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACAAAAAAAAAAAAAAAAAGAAAAAAAAA  
AAGGGGGGGGGGGGTAAAAATTTCCCGGGGGGGGGCCAAAGTTAATGACGTGACACCCG  
GTTTTGTGGTGTAAAGGGGGCGCCAAATAGAGGGGGAGTAATATAAGAGAGAGAGCAGAC  
GGGGCGGTGTTATAAACAGTTGTTGTGTGGTGGAGAACTTGTGTGTGGGATATTATTGGGA  
AAAGACCCCTTCTTGTGGGGTGAATTGTGGACACACCTAGAGAGAATTAAGCCAGGAAAT  
TAACCTAGGGTGTATGGTGGTAACGCGATATTGTGAAAAATTTGTCAGATTGTTGAAATANN  
>248

NNNNNNNNNNNCCGAGGTACTTNNTTTTTTTTTTTTTTTTTTTTCTTTTTTTTTTTT  
TTTTTTTTTTTACAGAGACGAGGAATTTAATTAGGGTTGTAACAAATGGTTAATTATAGTAAG  
AAAAACCAAATTGAATAATTTCTAACTCACTTGGCAGGGGGGGTCTCGCAGCCATAATGAA  
CATCACATAATGAAGTTACTCCTTTCCAGATCTATAAACAGGCTCATGTAACCTAACTGATACT  
CAGTAAAAGGGTCCATAATCCAAATTTATATAACAAATGGGGCTTGCTATAAAATCTCTTACA  
TTTTAATACTTACTTTAATAAATCATCTATTCTTCCCTCCTTCTTCTCTAAGGCAGAAATCTTA  
CTGTTTTCTAGGGCAGATATTTTTCTATTGTGAGGTGCGACTGGGTCTGTCTGGGCTGGAT  
GGAGATCTGTTTTGGGAGCTGCAGGAATGCTCTGTGTGTCAGATCCCGTAAATGAGGGA  
CTGTTTTGCTGAGCTGAAACAAAAGTGAAGCAGAGGCCAGCTCCCTTTGCGCCAGCTGCT  
CTGTGTCAAGCCGAGGTTTTGCTAGCATCACTGACATGAGGGTTGGCAGAGCAGACTGCTC  
TCCGTTGCCTCCTTTGCAGCACTGCCATTAACCATAGAGGGGCTGTTCTACTCGTCGCG  
GTAAGGGATTGGATAAGGAATGTTGCGGTGAGGATCGTGCAACTGGTGGAACTTCTGCC  
AGGGCTCGTTCCTGGCGCGCTTCCCCAGCAAATGGCCAACAGGGAAAAACCGACGGGC  
GCGN  
>249

NNATGTGGTTACGACCCACTGTATTGAGGTGACGCGATCCATAGGCTGTGGTGT  
GTTTTCGCTGATCCACACAAACGTTGGGGCACTGTCTATTATGTTCAAGCTGAAGGCTC  
GTTCTCGGTTGTCAATTTACAGTGTCTTTCTACGGGGTTACATTACAGGAATGTTGTAGCGAC  
GTTTAGCCCGTGGAGTATCAACGTCTTGAGACTCCGTGTGAGACTCCCTGTTTTGTTCCACA  
ACAGTGTGTTTTAGATTCCGTACCTTTGATTAAGGAACACATCATGCCGTGAAGCCAATTTA  
TATTCTGCAATTCGTTAGTGCATGTAATGTATTCTGCCGTCTCGTAGTGTGAAGCCATGCTTG  
GCACATCCAGTCTTTGATGTCTGGCTGCCTTCTGCGGGCCAACTGTCTTGTGGAATTCGTT  
GCTCCCAGAGATAGCTTGAAGTGCAGATCCCGCACAGCATTGCACTGAGCTGTCGTTGTATC  
TGAGCCTGGACATGGCGGCCGAGGTACTCACAGTCACGCAATTCACAGTCTGCGTGCACG  
GCTCTCCATTCTTCTTGGCTTTACAGGTTCCAGGTCAAGAGCTTACCCATAATTAAGA  
CCTTCTGAGGATGATCGATAGATAAACACACCTCCTCTGAACCATCCTTGGGCTTCATGGG  
TTGGCATTGAGGATCCCTACGACAGTCCCTGCTCCGTCTTCCAGAGCGCTTTGTGAACCTC



Table 4

TCCAAATAAGAACAAGGACACACATTGTGTCAGGTCACGAAGATCATTGAGTTTCCATATGCT  
GAAGGTTTTTCCACTATTACACTCTGTGGCGTAACCTTCTTCAATATAACCCCAAATGTCAC  
CCAATCTATTTCTTCCAGCTTCTCTCTGGCCATCTTTTCTTGATCTGAGACAGTCTGATCAG  
TTTTCGGCCGGTCATGTGTCTTCGTTTCATATTCTCTGGAGGATACTCGAGCCCGCCTCGAGC  
CGCAGACCAGGAGAAGGCTTCCACACAGATGGCGATTGAGTCGTTTCTCACAGAACTTTC  
ACTCGGGGTCCACCACATATTTGACCTCTAGTTATCCCACTAGGTTTGTTCGAGAAATCGT  
CTGTAGGGGTTGGGAGGGTGCACCTTGTCTGATCCTTGAAGATGAGCTTTTGGGATCTGGAGGT  
GAAGCCTTTGGTGTTCGAGCCACCCTCTTGGTTCTTGGTAGCGCAGGGACATCAAGCTCCG  
CAGAAAAGCATGTTGACTCCTGAATTCCTGAATCTCCTCTCCTTAAGAGGTGGCCGGGA  
GACTTCTCAGGGGATTTTTGCAGACGGGCTGGGCTTGCTGTCTGTTTAATTGTTGTTACTTTT  
AGCTGCTCTTGTAAGGCCCTTCATTTGCTCTTGCAAATTCCTTAATTCCTCTTGCAACTCTTCAT  
TCGTTTTCTCTCGCCTGGGGGCGAGGAGCAGGGAGGACCCTATTTTCAGTTGACTGTGATGC  
GGGAACCTCTTCTTCATCTGTTAAGTCCTCCATATCTCCAAAGAGAGTGGCCAGATTTTCTT  
TTCGCTCTCTGCTCTCCTGTTTCTCCATCATCAGCCTCTTCTGTATAAGATTACCGTCCG  
GTCGGCATCAAAGAGCTCATCAAATGCGTCGGGCTCGCCATTTTCCCGCGTCAAGAAGTTAT  
TTTCTTCTGAATTACAATCCAAGGCTGACTCATTTTCTTCCAGCAGTGGGTCAGCAGAGACA  
GATTGTCTTCTCCTCATCCATGCTGTCAAGAGGACAGTTGTGACAGGAACTTCAAGGAG  
GCTCAGATGCCAGATGAGCAATGTAGAATCTTGGCCGATGCCGGGACGCCTTCTCGTTC  
ACAGCTGAACCCGCCAAAATCGGACNN

&gt;250

ACGCGGGGGGACGTAAGGTGGGGCGGTGAAAGAAGTTTGCTGACGAAGATGGC  
GACTGAGGCACAGAGTGAAGGGGAGGTGCCAGCCCGCAATCCGGCCGGAGTGATGCCAT  
CTGCAGTTTTGTGATCTGCAATGATTCTTCCCTTCGAGGTGAGCCCATATCTTTAATCCTGA  
CTTTTTGTGGAGAACTCCGACATGAGAACTGAGATTTTCACTGAGTTGGTGGTCAGCA  
ATACACAAGGCTCATCGATTTACCTGGAATGAGTTGGCTCAGCTGATGGGGAAAGTGA  
CCTTAAGTTGCCTGGCGGGGCTGGCCAGCATCAGGATTTCTCCGGTCTCTCATGTCTCTC  
AAGCGAAAGGAAAAAGGAGTGATATTTGGGTCCCCACTGACGGAGGAAGGCATTGCCAGA  
TATACCAACTGATTGAGTATCTACACAAAACTTGCGAGTAGAGGGTTTGTAGAGTACCG  
GGTAATAGTGTCCGACAGCAGATTTTAAGGGATGCTCTCAATAATGGAAGTACATTGACT  
GGAATCAGGGGAATTTCACTCAAATGATGTTGCCACTTTGCTGAAGATGTTTCTAGGAGT  
TGCCGGAGCCTCTGCTGACACATAAACACTTCAATGCACACCTCAAATCGCTGATTTGATG  
CAGTTTGATGATAAAGGAAACAAGACCAATATACCAGACAAGGACCGGCAAATTGAGGCTCT  
CCAGTTGCTCTTCTCATTTCTCCCTCCTCCTAATCGTAATTTGCTGAAGTTATTGCTTGATCT  
CCTATACCAGACAGCAAAGAAACAAGACAAGAACAAGATGTCAGCCTATAACCTTGCCCTTA  
TGTTTGCACCCACGTCCTGTGGCCAAAAATGTCAGTGCAAATGACCTTCAGGAGAATATC  
ACAAAGTTAAACAGTGGGATGGCTTTTATGATTAAACACTCCAGAACTTTTAAAGGCTCCT  
GCTTATATTCGGGAGTGTGCGAGATTGCACTATTTGGGATCCAGAACTCAGGCATCAAAGGA  
TGACCTTGACCTCATAGCTTCATGTCTACTAAGTCCTTTCAGCTGGCAAAGTCTCAGAAACG  
GAACCGGGTAGATTCTGCCCTCACCAGGAGGAGACCCAGCACCATACGGAAGAGGCACT  
GAGAGAGCTGTTTCAACACGTTTCATGATATGCCAGAGTCAGCAAAGAAGAACTTATTA  
GACAGTTTAATAAGCAATCATTGACCCAGACACCAGGGCGAGAACCTTCTACTTCCAGGTA  
CAAAGAGGGCTCGTTCGCGCTCCTTCAGTGGGCTTATTAAGCGGAAGGTCTGCGGAAATC  
AGATGATGTCAGAAAAGAAAAAGAAAGAACCTTCTCAGAAATCTGTGGCCATTGGTGAATTG  
AAGGGAACCAGCAAAGAAAATAGGAACCTTATTATTTTCTGGCTCTCCAGCTGTCACGATGAC  
ACCAACAAGATTGAAGTGGTCTGAAGGGAAGAAAGAGGGGAAAAAAGGATTTCTCTGAAGG  
ATCCAGAGTTGTCTCCTATGGTCCATGCAGAAATTTCTGTTTAGTGGGCAGGTGTTATTCTG  
CCCACAGCAAAGCTTGACTTGCACTTGCTTGTGCTGCAATTTGAATTGTCAAAGCCAACTAA  
TACCGTGACCCGACTGATACCTCTAACCCCACTCACTGGATGATGTTTGCAAGCTGTGCCTT  
CTGAGAGAGTGCTTAGGCCCTGTCTCTTTTTTAAATATTATGGGGAACCACTAACTATCCA  
ACCAGCTTATACAGCACACTAAGGTGGGCTTCAGTGCTCACTCAATGTGTTTAGGCAGATT  
CACTTTTGAAGAAAAATATGAAATGTGTGCTCAACTGCCAGTAATTTTTTAAAGCACTGTCC  
CAGTGGATTGATGTTGTTTTTAAATGGATATTTGGGTTTTTCTGTGTTTGATAGTATTGGGTA  
TTTGGTTGTTTTGTTTGTATTTCTTTGTTTTAAAGCCATGTTTTGGTTGGGCTCTAAGCT  
AGATATCTTCCCTCTTTTCACTTTGAGCTTTGGGAAACTCTTATCTTATGAGGCTGTATT  
CCTCAATACCTAATTTGTGTCAAAGAATTTATAGCTCTTCTGGACATTTTTTATTATTTCTTG  
GGTGTGACATCAGAGTATTTGACCTGCAGTATTGAAAAAGGAGAATTCAGAATGATACAGTA

Table 4

TTTAAACAAATCTTAATTATTAAACTCTTTTCCTTCCTCCATTTCTCCCTCCCTTGCCATCTC  
TCTCTCTCTTTCCCTTTCCCTCAGTGATGTGAAAATAATTGTGTTTTGCTGAACCTGTTATCTTC  
ATTCAATTTCTCTTTGACTAAAACATCTCTGGTGCCAACGTAATACTTCTGAACCACATCACT  
GTGACTCAAGGAAAGTCACTGACAGCATAAGAGAAGTTTGCTAAAATATTTGTATGTGGGGG  
AAGCTCTGGAGTGTGCCTAGGAGGGGGCTGGCTGCCTTTATGTCCCAGGATGACTCTTTAT  
GGGTGGGATTACATTGCACCCTCTGAGGGTGCAGGCTAGACCGTCTCCTGAGAGGAAGTTA  
GGATCAGAAAGAAGAAGCAAGCAGCAGCCTCTGCAGGGCTGACAGGATTTAAAGGAGAGAA  
TGTTCTTATTTGGAAGCAGCTGTGGCTTGTCACCAATGTTCAAGGAGTGTTACTGTTCCGCC  
CTCTCTTTGTCAGAAGGGACACAGGTGGTAATTTGGAGATGGGGCCAGAGCTTCTGGCTTTT  
GGATTTGGTGTGTTCACTTGTGTTGGATAGAGCAGTGGCATGGCTTTGACCTAGTATGAACT  
GGTGTCTGCCAGAGAGCAGCATGTAGCAGGGGGGAATGCTCAGGTTTGTGCCTGGCTCT  
GTGGAGCTGTACAACCCTTCTCACCCTGTGGTTGGAGCCGAGTCAGGCCACTATGGGGAA  
GCAGTTGCCCCACAAAATGTGGTTTGCTGACCTATTTCTAAACTGTTGAATATGCTGCACCAT  
TGCTGAAATGAAAGATGACTCTGGGGGAGCAGAGCTTGGCCTTGTGCCAGCTGGCAGCCC  
CCTCTGCCAGCCTTTCTGCTGCTTTTGCTGCTGTAAACAGCAATAGTGGAGAAAAATGTAAAT  
TTGGTCTTCCAGCTTAATGCAGTGTGAACAATAGATGGTTAGGAAAAACAAAAGCTTAGAA  
GCCCCCTTCTCTAGAGCAGTTTTATGTCAATTTGTAAAAACACATATTAGCAAATTCGTTCCGG  
TAGGTTTCTATTCAATATTTGACTTTTTTTTTCTTATTAAAGAAAATGAAATCCCTTACACCAGAT  
ATCAGTTAATTCAAACAGAAAACCCTTTGGGTATCANNNNN

&gt;251

&gt;252

GGCGatTggagctCCCCGCGGTGGCGGCCGAGGTACATTTTACTACGCACCCTTACGC  
ATTCTTTTCTCACCTCTGTGTGTGTGTGCGTGACATGCACACACAAAATGGGTGAAA  
CAATTTCTACCATAACCAAGAGCCACCGCGCCCTGCCGAGAATTTGCATTTCTAACAAGTTCC  
CAGGTGATGCTGACACTGCTGGCTCATGGAACCACTGCTGTAGTATTTTCCAAATTATCCTG  
ATTCTAAGAACCACCTATGACCTGTGCTGTTTTTCTGTGGTTACTGGCTCATGTCACATAAA  
TTCTTTTAGGATTCAAACATGTTTGTGATATTACTCAGTATTTACATCTTGCTTTTACTGCAGC  
ATGATGGAAAAATTAACCCACAGGTATATCAACAAAAAGAACATGAGTTACCATTTTCACAA  
AGTTCAGATATATTTAAATTAGCCTATTTAATCTTTTTTGGTTGTTGTTGAGATGGAGTCTCA  
CTCTGTCTCTCAGGCTGGAGTACGTGCTGTTCTATTGTCCAAGGCGGGGTCTGCACAGAAC  
AGCTTTGGAAGGGGCTGGGCGGTGTCTGTGGTGTCTGCAGGTCTGCTCGTTTGGCCGCT  
GCTTGTGGTGGTTCGTTATCGTTGTCTGTCTGTATGTCAGCAGTTTCAGTAGTGGATATTG  
GTTGTTTCAGGATCGGCCATTGTAGATGATGTTTATTGTTGTGCACAGGTAGGGCACACAAT  
ATTCAGTGTGCCATAAGTAGTTGCTGTATGGTTCGTAGGTCAGTGTCTGTCCCCGCGT

&gt;253

&gt;254

ACGCGGGGACTCGCGTCTGGTTGGCGACTCCCGGACGTAGGTAGTTTGTGGGGCCG  
GGTCTGAGGCCTTGCTTCTCTTTACTTTTCCACTCTAGGCCACGATGCCGAGTACGCGGG  
GGGGTGAAGAAGGGGCCGCGCTTCAAGCAACAGCGACGCAAGATGGCAGCCACCACGGG  
CTCGGGAGTAAAAGTCCCTCGCAATTTCCGACTGTTGGAAGAACTCGAAGAAGGCCAGAAA  
GGAGTAGGAGATGGCAGATTAGCTGGGGTCTAGAAGATGACGAAGACATGACACTTACAA  
GATGGACAGGGATGATAATTGGGCCTCCAAGAACAATTTATGAAAACCGAATATACAGCCTT  
AAAATGAATGTGGACCTAAATACCCAGAAGCACCCCTTTGTAAGATTTGTAACAAAAAT  
AATATGAATGGAGTAAATAGTTCTAATGGAGTGGTGGACCCAAGAGCCATATCAGTGCTAGC  
AAAATGGCAGAATTCATATAGCATCAAAGTTGCTCTGCAAGAGCTTCGGCGCCTAATGATGT  
CTAAAGAAAATATGAAACTCCCTCAGCCGCCCGAAGGACAGTGTTACAGCAATTAATCAAAA  
AGAAAAACCACAGGCCCTTCCCCTTCCCCCAATTCGATTTAATCAGTCTTCATTTTCCACAG  
TAGTAAATTTTCTAGATACGTCTTGTAGACCTCAAAGTACGGGGGAAAAATCCACAAGACAG  
AATAGCCAGATCTCAGAGGAGCCTGGCTAAGCAAAAACCCTGCAGAACGGCTGCCTAATTTA  
CAGCAACCATGAGTACAAATGGTGATGATCATCAGGTCAAGGATAGTCTGGAGCAATTGAGA  
TGTCATTTTACATGGGAGTTATCCATTGATGACGATGAAATGCCTGATTTAGAAAACAGAGTC  
TTGGATCAGATTGAATTCCTAGACACCAATACAGTGTGGGAATACACAACCTACTAGCCTAT  
GTGAACACCTGAAAGGCCAGAATGAGGAAGCCCTGAAGAGCTTAAAGAAGCTGAAAACT  
TAATGCAGGAAGAACATGACAACCAAGCAAATGTGAGGAGTCTGGTGACCTGGGGCACTT  
TGCTGGATGTATTACCACATGGGCAGACTGGCAGAAGCCCAGACTTACCTGGACAAGGTG  
GAGAACATTTGCAAGAAGCTTTCAAATCCCTTCCGCTATAGAATGGAGTGTCCAGAAATAGA

Table 4

CTGTGAGGAAGGATGGGCCTTGCTGAAGTGTGGAGGAAAAAATTATGAACGGGGCCAAGGCC  
TGCTTTGAAAAGGTGCTTGAAGTGGACCCTGAAAACCCTGAATCCAGCGCTGGGTATGCGA  
TCTCTGCCTATCGCCTGGATGGCTTTAAATTAGCCACAAAAATCACAAGCCATTTTCTTTGC  
TTCCCCTAAGGCAGGCTGTCCGCTTAAATCCAGACAATGGATATATTAAGGTTCTCCTTGCC  
CTGAAGCTTTCAGGATGAAGGACAGGAAGCTGAAGGAGAAAAGTACATTGAAGAAGCTCTAG  
CCAACATGTCCTCACAGACCTATGTCTTTCGATATGCAGCCAAGTTTTACCGAAGAAAAGGC  
TCTGTGGATAAAGCTCTTGAGTTATTAAGGAGGCTTGCAGGAAACACCCACTTCTGTCTTA  
CTGCATCACCAGATAGGGCTTTGCTACAAGGCACAAATGATCCAAATCAAGGAGGCTACAAA  
AGGGCAGCCTAGAGGGCAAAACAGAGAAAAGCTAGACAAAATGATAAGATCAGCCATATTTT  
ATTTTGAATCTGCAGTGGAAAAAAGCCACATTTGAGGTGGCTCATCTAGACCTGGCAAGA  
ATGTATATAGAAGCAGGCAATCACAGAAAAGCTGAAGAGAATTTTCAAAAATTGTTATGCATG  
AAACCAGTGGTAGAAGAAACAATGCAAGACATACATTTCCACTATGGTCGGTTTTAGGAATTT  
CAAAAGAAATCTGACGTCAATGCAATTATCCATTATTTAAAAGCTATAAAAATAGAACAGGCA  
TCATTAACAAGGGATAAAAGTATCAATCTTTGAAGAAATTGGTTTTAAGGAACTTCGGAGA  
AAGGCATTAGATCTGGAAAGCTTGAGCCTCCTTTGGTTCTGTCTACAAATTGGAAGGAAATAT  
GAATGAAGCCCTGGAGTACTATGAGCGGGCCCTGAGACTGGCTGCTGACTTTGAGAATCT  
GTGAGACAAGGTCCTTAGGCACCCAGATATCAGCCACTTTTACATTTTATTTTATGCT  
AACATTTACTAATCATCTTTTCTGCTTACTGTTTTTACAGAAACATTATAATTCAGTGAATGATGT  
AATCTTGAATAATAAATCTGACAAAATATTAGTTGTGTTCAACAATTAGTGAAACAGAATGTG  
TGTATGCATGTAAGAAAGAGAAATCATTGTATGAGTGCTATGTAGTAGAGAAAAAATGTTAG  
TTAACTTTGTAGGAAATAAACATTGGACTTACACGAAAtgtttaattcattcattttattgtgaataaaaaataaaa  
tccttagtctctccaccaactgaacagaccctcttgccaaggagacccagaaaccttaaaaactaagttcccaacctgacaagat  
gagagatcattcacacctcattatattccctccctgtaactgccattggacttttccactgagttaaacagaaacca  
>255

NNCTCAGAGGATTACCGACCCACGCGTCCGCAACATCCTGGCTTAGTATTGTGTGC  
AAAATCAGAGAGGGGTGCAAGATCCTGATTTTTTCAGGAGTTCAAGCGACAATGGCAGCCCA  
ATACGGCAGTATGAGCTTCAACCCAGCACACCAGGGGCCAGTTATGGGCCTGGAAGGCCA  
GAGCCAGAAATTCCCAATTGAGAATTGTGTTAGTGGGTAAAACCGGAGCAGGAAAAAGTG  
CAACAGGAAACAGCATCCTTGGCCGGAAGTGTTTCATTCTGGCACTGCAGCAAAATCCATT  
ACCAAGAAGTGTGAGAAACGCAGCAGCTCATGGAAGGAAACAGAACTTGTGCTAGTTGACA  
CACCAGGCATTTTCGACACAGAGGTGCCCAATGCTGAAACGTTCCAAGGAGATTATTGCTG  
CATTCTTCTGACCTCCCCAGGGCCTCATGCTCTGCTTCTGGTGGTTCCTACTGGGCCGTTACA  
CTGAGGAAGAGCACAAAGCCACAGAGAAGATCCTGAAAATGTTTGGAGAGAGGGCTAGAAG  
TTTCATGATTCTCATATTCACCCGGAAGATGACTTAGGTGACACCAATTTGCATGACTACTT  
AAGGGAAGCTCCAGAAGACATTCAAGACTTGATGGACATTTTCGGTGACCGCTACTGTGCGT  
TAAACAACAAGGCAACAGGCGCTGAGCAGGAGGCCAGAGGGGCACAGTTGCTGGCCCTGA  
TCCAGCGCGTGGTGAGGGAGAACAAAGGAAGGCTGCTACACTAATAGGATGTACCAAAGGGC  
GGAGGAGGAGATCCAGAAGCAAACACAAGCAATGCAAGAATCCACAGAGTGGAGCTGGA  
GAGAGAGAAAGCGCGGATAAGAGAGGAGTATGAAGAGAAAATCAGAAAGCTGGAAGATAAA  
GTGGAGCAGGAAAAGAGAAAGCAAAATGGAGAAGAACTAGCAGAACAGGAGGCTCACT  
ATGCTGTAAGGCAGCAAAGGGCAAGAACGGAAGTGGAGAGTAAGGATGGGATACTTGAATT  
AATCATGACAGCGTTACAGATTGCTTCTTTATTTTGTACGTCTGTTTCGCGGAAGATTAAAC  
TTAATGAAAATCTGTTTGTATTTTCTGCATATTCTCTGGCAACCTTGCCCCATACTTACTTATT  
TAGCATAGTCGAGTGCTCTAGTTTCTGTCTCTCAGGCACTCGTAACCTAAGGACCACCATTTG  
CCATTGGTAGATGTTTGATTGACTTAACAAGAGAGGGACAAAATTTTCAATTTGTGAACTCCA  
AAGCAGAAAGTATTGGTGCTTGCTACCTTGTAATTCTTCTTAGACATGCAGAGAAAATGTA  
TGCAAGAGACCAAAAAGATGGCTCCAAGCTATGTCATGTTACCTGTAATAAAATCTTTTCTTC  
TAGATTCTTTCTATGTTGGCAGATAATCTCCCTTGTAGCTTCCACTCACTTATTCTTGCAATC  
AGAGTCACAATGATCATCTTACCCATGTGGTTTTTGAAGAAAGAAAGATCAATTCTTTGTTTGC  
AGTAGGTAATCTTAGAGATGGAGATGATTGTAGAATTATTCCTAGATGAGTGTCAATTTATTT  
AATTCATTGTCTATATAAGGAGTCAAATGTTTCTTATCATTGTTTCAATTGAAGAACAGAGACC  
TGTCTGGAATAATCGATCTCTACAAATCAATTAATAATGATCCCCAAATGCTGAAAAAGTGA  
AATACAGCAATTCAACAGATAATAGAGCAATGTTTAGTATATTAGCTGTATCTGTAGAACT  
CTTTGACGAACCTCAATTTAACCAATTTGATGAATACCCAGTTCTCTTCTTTCTAGAGAAAGA  
TAGTTGCAACCTCACCTCCCTCACTCAACACTTTGAATACTTATTGTTTGGCAGGTGATCCAC

Table 4

ACACTTCTGCCCCCACTGCATTGAATTTTTGCTTATGTTGTTTATAATAAACTTTTCAATTAT  
CTCAAAAAAAAAAAAAAAAAANNNNNNNNNNNNN

&gt;256

&gt;257

CGCGGTGGCGGCCGAGGTACTCTGACTTGCAGGGCCACAAGACCGGCCTTGCGAG  
CGTCGTTGGCTGATGGGAGTAGAAGCCACAGAGAGTCTTCCTCTTGGAGGTACAGTCAATT  
CTGAGGTTTGGGCGTCATAGACTAAACCCAGAAAACAGAACATTGGGAAGTCTTCGGAATAT  
TCTCTATCTTCTTACCAACGAGTAAGACGTTTTGGAATAATGGGACTCTACAAAGGCCTTGA  
AGCCAAACTGCTGCAGACAGTCTCACTGCTCTCATGTTCTTGTATGAGAACTGA  
CAGCTGCCACCTTCACAGTTATGGGGCTGAAGCGTGCACACCAACTGAGACGCCTTCCC  
ATGAAAAATTCCGAAGATGCTCAAGAGGGAGGTTTTCTCCTGAGTGAAGAGAAGTGATTCTC  
CCTTGACTCTGGCTCCTGCCACCACAAATGTTACCCTCATTGGCTTGAAAAGCATCCAAGGG  
TGCACAGGGAGTATGGCAACTGGACCTGTTGTCACCTTAATTGTCATGCTGGCTGGTTGGAT  
TTGGGGTGGCAGTTGGACTAATGTAAAAAACATTGCTGAAAACCTAAAAATGACAGTTGT  
GAGTGTTTTATTGGTTTTCTTAAGAGAAATGGACTATTTGCTCTCATGTGTAATGTTTTCTATTT  
AAATCTTTCTTAAATATACCAGCTGTTCTCTTTCCCTGAACTCTCCCCCAGGTTCTAGACAATT  
TAATAACATGTTATTCTTCTCAAATACTTTTGTCTCATGTCTCAAGTGTGCGGTGTTTTACTGCAC  
TTAAAAAGTAACATTTATGGGCTNTGCACGGGGCTGAACTTCATCTCGGTGGGCCTTTTATA  
CCGGCTACGGGAAGGGGGCCTCATGGGCTTTGCACCATTTTTTGTGGGAATGAACACTGG  
TGCCCAATGGATTCTTTAAACATTGGCAGGTACATTTTACAGGGGAGAAAACTCCGATAGCT  
TGGAAACACCGTATCACAACCTGCGAGTGCAGTCACTCAACCGGTGAGGCAATGGGCAAC  
AAAAAAAAAAGTGGCGGGGCGGCACATAN

&gt;258

NNNNNNNNNNNAGGGAAAGCCTGCATGGGAAGTGGGAAGTTACTTCCCCCTGCC  
CAAGGGGACCCCGGTCCATGTTGGCGGGGGTAANCCNTCCCACCACCCNGCCCGNG  
GTTTAAATGCNGCCGGTTACAGGGGNGNGGTCCCCATTTGCCCCATTNCAGGGCTTGCGCC  
AACNTGTTTTGAAAAGGGCCNATTCGGGTGCGGGNCCCTTTTTTGGCTTATTTACGCCA  
AGCTGGGCGAAAAAGGGGGAATGTGCCTGCCAAGGGCGATTTAAGGTTGGGGTAACCGCC  
CAGGGTTTTTACCAGTCAAAACGTTTGTAAACGNGGCCAGTGAAATTGTAATACGACGA  
CCTCANNN  
NNNNNNNNNNNNNNNNNNNNNNNNNGGAAAGTGGCCCAGGCCCCACGGAAGTTACAGAGG  
CGACGTCGCGGACCGCCAACATGGCGGCGCCAGTGGCGTCCACCTGCTCGTCCGCAGAG  
GTTCTCATAGAAATTTCTCTTCACTCAATCATATCTACTTACACAAGCAGTCAAGCAGTC  
AACAAAGAAGAAATTTCTTTTTTCGGAGACAAAGAGATATTTACACAGTATAGTTTTGCCGG  
CTGCAGTTTCTTCACTCATCCGTTCCCTAAGCACATAAAGAAGCCAGACTATGTGACGACA  
GGCATTGTACCAGACTGGGGAGACAGCATAGAAGTTAAGAATGAAGATCAGATTCAAGGGC  
TTCATCAGGCTTGTGAGCTGGCCCGCCACGTCTCCTCTTGGCTGGGAAGAGTTTAAAGGTT  
GACATGACAACTGAAGAGATAGATGCTCTTGTTCATCGGGAAATCATCAGTCATAATGCCTAT  
CCCTCACCTCTAGGCTATGGAGGTTTTCCAAATCTGTTTGTACCTCTGTAAACAACGTGCTC  
TGTCATGGTATTCTGACAGTCGACCTCTTCAGGATGGAGATATTATCAACATTGATGTACA  
GTCTATTACAATGGCTACCATGGAGACACCTCTGAAACATTTTTGGTGGGCAATGTGGACGA  
ATGTGGTAAAAAGTTAGTGGAGTTGCCAGGAGGTGTAGAGATGAAGCAATTGCAGCTTGC  
AGAGCAGGGGCTCCCTTCTCTGTAATTGGAACACAATCAGCCACATAACTCATCAGAAATGG  
TTTTCAAGTCTGTCCACATTTTGTGGGACATGGAATAGGATCTTACTTTTCATGGACATCCAGA  
AATTTGGCATCATGCAAACGACAGTGATCTACCCATGGAGGAGGGCATGGCATTCACTATAG  
AGCCAATCATCACGGAGGGATCCCCTGAATTTAAAGTCTGGAGGATGCATGGACTGTGGT  
CTCCCTAGACAATCAAAGGTGTCGGCGCAGTTCGAGCACACGGTTCTGATCACGTCGAGGG  
GCGCGCAGATCCTGACCAACTACCCATGAGCTGAGGAGCCGCCGAAGCCCTCCAAGGCCA  
GTCCAGAGGTGAAGTTTGAAGGCCCTCCCCCACCACCCACACGCACGCACGCACGCATG  
GACCGTTTGTGCTGACTAGGAATTCAGACTTGGGCCCACTCGCCAGACTGGCCCTTCTCG  
CATCGGGACCCGCGCTTGCACGCTGCAGGAGCCGCAACGTCAGCTGTTCTGGAAACCGA  
GAGGTCCCAGAGAGAGGAGATACGGGCGCATTTGAGAGCAAGGGCCTACTTGGCCGGGAC  
TGAAGCTTGCAGAGCTAAGAGCCAGCTCATCTTTGTAACATTATAATACGGGAACTGAGG  
ACCAGGTGGCTCGGAAAAGAGATGAGTTCCAGCTTTTACCTAACACAGGGTCTCTCGTCGT  
CCCCCAACCCCTCCAGCTCGGCTTCTTGTGTCCAGGGTTGTAGATTTTTGGATAGAGGTGT  
TTCTGATTCTACTGAACTGGCCGAAAACCTCACCCAGAGCCACTGGGATTCCAGCCAAGAGT

Table 4

GGCTGCGGCTAACACCACCAGGACCTCCTGGTCCTGAGGTGACTCCAGTAGGCTCCATGAG  
GAATCCCGGACCCTCAGGACAAATGGGAGAGTTTTGTTTTCTCTCA

&gt;259

&gt;260

&gt;261

&gt;262

&gt;263

&gt;264

&gt;265

&gt;266

&gt;267

NAAGAGCAACCGAGATGAAGGTGAAGATGCTGAGCCGGAATCCGGACAATTATGTC  
CGCGAAACCAAGTTGGACTTACAGAGAGTTCCAAGAACTATGATCCTGCTTTACATCCTTTT  
GAGGTCCCACGAGAATATATAAGAGCTTTAAATGCTACCAAAGTGAACGAGTATTTGCAAA  
ACCATTCCTTGCTTCGCTGGATGGTCACCGTGATGGAGTCAATTGCTTGGCAAAGCATCCAG  
AGAAGCTGGCTACTGTCCTTTCTGGGGCGTGATGGAGAGGTTAGAATTTGGAATCTAACT  
CAGCGGAATTGTATCCGTACCTCGGCCGCGACCACGCTAAAATAAACAGCAGGACAGAAAT  
TGTGTTGTTTTGTTCTTTGAAATACAACCAAATCTCTTAAATGATTGGTAGGAAATATAGTA  
CCTGGCCGGGCGACCGCCACCGCGGTGAGCNN

&gt;268

AAAAAATTAATCTGACAATGTCAAGTTATAAGGTGCAAGAAAGAAGTAATTTCTCAG  
AGAAATTCAACTATCAAGCAAGTTATAACTCTTTACAGTGTTTAATTTATATCTGTCAAGGG  
TAGTGTCTGGAAATTTAATAATCACATTTTTCTTTCATTTCTATTCTGAAAGGTCTGTTGATG  
CCTGCCATCACAGTTATCATTCTAGTATTATATTTTGTCAATTGACACCTTCTGGGTTCAGAAAA  
GACCATGGCTTGCTGAGTGACACCAATTTATACAATACTTTGTGAAGTTCTTCATTATTG  
GAGTTACAGTTTTAGTGGTCGCAGTGCCAGAAGGTCTTCCACTTGCAGTCACGATCTCACTG  
GCTTATTCAGTCAAAGTAAGTAGAAAATAGTTCAGTAGACGTTGTTATGTTTAAAGCCTTAGC  
TGGTATAGAAAATGCCCATCTAGTTACTCCTTTTCTGCTTCTGAAAGTGAGGACTTTCATATA  
AATGT

&gt;269

cCCACGCGTCCGGTGAGACTTGCTGCTCCTCTGGCCCCTGGTCCTGTCTCTTCT  
CCAGCATGGTGTGTCTGAAGCTCCCTGGAGGCTCCAGCTTGGCAGCGTTGACAGTGACACT  
GATGGTGCTGAGCTCCCGACTGGCTTTGCTGGGGACACCCGACCACGTTTCTTGGAGCTG  
CTTAAGTCTGAGTGTCAATTTCTCAATGGGACGGAGCGGGTGCGGTTCTGGAGAGATACTT  
CCATAACCAGGAGGAGTTCGTGCGCTTCGACAGCGACGTGGGGGAGTACCGGGCGGTGAC  
GGAGCTGGGGCGGCCTGTGCGCGAGTCTGGAACAGCCAGAAGGACCTCCTGGAGCAGAA  
GCGGGGCCAGGTGGACAATTACTGCAGACACAACCTACGGGGTTGTGGAGAGCTTCACAGT  
GCAGCGGCGAGTCCATCCTCaggtGACTGTGTATCCTGCAAAGACCCAGCCCCCTGCaggcACC  
ACAACcgtggtcTGTCTGTGAGTGGTTTCTATCCAGGCAGCATTGAAGTCAGGTGGTTCCGG  
AATGGCCAGGAAGAGAAGACTGGGGTGGTGTCACAGGCCTGATCCACAATGGAGACTGG  
ACCTTCCAGACCCTGGTGATGCTGGAACAGTTCCTCGGAGTGGAGAGGTTTACACCTGCC  
AAGTGGAGCACCCAAGCGTGACAAGCCCTCTCACAGTGAATGGAGAGCACGGTCTGAATC  
TGCACAGAGCAAGATGCTGAGTGGAGTCGGGGGCTTTGTGCTGGGCCTGCTCTTCTTGGG  
GCCGGGCTGTTCTACTTCAGGAATCAGAAAGGACACTCTGGACTTCAGCCAAGAGGATT  
CCTGAGCTGAAGTGAGATGACACATTCAAAGAAGAACTTTCTGCCCCAGCTTTGCAGGATG  
AAAAGCTTTCCCTCCTGGCTGTTATTCTTCCACAAGAGAGGGCTTTCTCAGGACCTGGTTGC  
TACTGGTTCAGCAACTGCAGAAAATGTCTCCCTTGTGGCTTCTCAGCTCCTGCCCTTGGC  
CTGAAGTCCAGCATTGGTGGCAGCGCCTCATCTTCAACTTTTGTGCTCCCCCTTGCCTAAA  
CCCTATGGCCTCCTGTGCATCTGTACCTGCCGggggggcGCTCGAGGTTGGTTCAAGCCTTC  
GTTGACAGAGTTGCCACGGTAACAACCTCTTCCGAACCTTATGCCTCTGCTGGTCTTTCA  
GTGCCTCCACTaCCCCGCTACCTCGGCCGCCACCcgtggaGCTCCaA

&gt;270

&gt;271

&gt;272

&gt;273

&gt;274

Table 4

&gt;275

&gt;276

CGCGGTGGCGGCCGAGGTACGTTCTATTCCTGCTCCTATTAGGTCCTTCTCACCGC  
ACCGGCCCTCGGTCGATTACGCCTCTCCAGTTCTGCTGGGGACGTTCTAGCCTCGCCCCAC  
CCGCGTCGATCTTTATGTTATACCGTCACTCCCAGTGCCCTAATGGAAGTATCCCTCCACTC  
ACTCCCCCTGGTTCTACCCGGCTCCAGAGCCTCTCCCGGCCCACTAATTTATTCCCAAATTC  
TAGGCCCGGCCCATCAGCCCTCCCCGCGTACCTGCCCG

&gt;277

NNGGAGCTCCCCGCGGTGGCGGCTCGAGTACGCGGGGAGGCAGCGGAAAGCTCA  
GCCCATGTGAGGTGCCTCCTGCCAATCACAGACTACCCTTCCCTGGTCCTGGAGGTTCAAA  
GAATTGCAGGAGGGTAGAAAAGCACCTGGGTGCGGTGCAGACTGCGGAGCGGGCCCTACC  
GTGTGCGCAGAAAGAGGAGGCGCTTGCCCTTCAGCTTGTGGGAAATCCCGAAGATGGCCAAA  
GACAACCAACTGTTGCTTGCCTCCAGGGCCTGCTGATTTTTGGAATGTGATTATTGGTTGT  
TGCGGCATTGCCCTGACTGCGGAGTGATCTTCTTTGTATCTGACCAACACAGCCTCTACCC  
ACTGCTTGAAGCCACCGACAACGATGACATCTATGGGGCTGCCTGGATCGGCATATTTGCG  
GGCATCTGCCTCTTCTGCCTGTCTGTTCTAGGCATTGTAGGCATCATGAAGTCCAGCAGGAA  
AATTCTTCTGGCGTATTTTATTCTGATGTTTATAGTATATGCCTTTGAAGTGGCATCTTGTATC  
ACAGCAGCAACACAACGAGACTTTTTACACCCCAACCTCTTCTGAAGCAGATGCTAGAGAG  
GTACCTCGCCCGGCGGCCGCTCGACCGCCCGGGCAGGTACGCGGGGATAGTTCACTCACT  
TTCAAAGCCAGCTGAAGGAAAGAGGAAGTGCTAGAGAGAGCCCCCTTCAGTGTGCTTCTGA  
CTTTTACGGACTTGGCTTGTAGAAAGGCTGAAAGATGATGGCAGGAATGAAAATCCAGCTTG  
TATGCATGCTACTCCTGGCTTTTCACTCCTGGAGTCTGTGCTCAGATTGAGAAGAGGAAATG  
AAAGCATTAGAAGCAGATTTCTTGACCAATATGCATACATCAAAGATTAGTAAAGCACATGTT  
CCCTCTTGAAGATGACTCTGCTAAATGTTTGCAGTCTTGTAATAATTTGAACAGCCAGCT  
GAGGAAACAGGAGAAGTTTCATGAAGAGGAGCTTGTGCAAGAAGGAAACTTCTACTGCTTT  
AGATGGCTTTAGCTTGAAGCAATGTTGACAATATACCAGCTCCACAAAATCTGTCACAGCA  
GGGCTTTTCAACACTGGGAGTTAATCCAGGAAGATATTCTTGATACTGGAAATGACAAAAAT  
GGAAAGGAAGAAGTCATAAAGAGAAAAATTCCTTATATTCTGAAACGGCAGCTGTATGAGAA  
TAAACCCAGAAGACCCTACATACTCAAAGAGATTCTTACTATTACTGAGAGAATAAATCATT  
TATTTACATGTGATTGTGATTTCATCATCCCTTAAATTAATATCAAATTATATTTGTGTGAAAATG  
TGACAAACACACTTATCTGTCTCTTCTACAATTGTGGTTTATTGAATGTGATTTTTCTGCACTA  
ATATAAATTAGACTAAGTGTTTTCAAATAAATCTAAATCTTCAAGCATGATGTGTTGTGTATAAT  
TGGAGTAGATATTAATTAAGTCACCTGTATAATGTTTTGTAATTTTGCAAAACATATCTTGAGT  
TGTTTAAACAGTCAAATGTTTGATATTTTATACCAGCTTATGAGCTCAAAGTACCTCGGCCG  
CCACCGCGGTGAGCTCCAANNNN

&gt;278

NNNNAGTCGACCACGCGTCCGGCAAGGCGTCCAGGAGTGACCTGGGGCTGTGGA  
GAGCGACCCGTGGCCTTGTGTTTCAGTTCTCTATTTCAGAACTTGAACCTTTCCTAAGGGAC  
ACTAAGGGCTTCAGTCTTGAAAGTTTTAGAGCCAAAGCATCTTCTCTTCTGAAGAATTGAAA  
CATTTTGCAGACGGACTGGAACTGATGGAACCTACAAAAATGTTTTGAAGATTCAAATGGA  
AAAGCATCAGATTTTTCTTGAAGCATCTGTGGCTGAGATGAAGGAATACATAACAAAGTTT  
TCTTTAGAACGTCAGACTTGGGATCAGCTCTTGCCTCACTACCAGCAGGAGGCTAAAGAGAT  
ATTGTCCAGAGGATCAACTGAGGCCAAAATTAAGTGAAGTCAAAGTGAACCTATGACATATC  
TTGGGTCTTCTCAGAATGAAGTTCTTAATACAAAACCTGACTACCAGAAAATATTACAGAACC  
AGAGCAAAGTCTTTGACTGTATGGAGTTGGTGATGGATGAACTGCAAGGATCAATGAAACAG  
CTGCAGGCCTTTATGGATGAAGTAGCTGCCCGGGCGAACGCCACCGCGGGGAGCTCCAN

&gt;279

NNACACATTGTAATATTATATCATGTATAGTTGTACGCAGCTCTGTGCATAACTGTGG  
TAACTTTGTGGGTGCTCCTGTGGGTCCTGAAACAATGCAGTTCTCCCCGCGTATGCGACAT  
CCGGCTGATGGTCATGGAGATCCGCAATGCTTATGCTGTGTTATATGACATCATCTGGAAGA  
ACTTCGAGAAGCTCAAGAAGCCAGGGGAGAAACAAAGGGAATGATCTATTGAGAGCCCTC  
TCTCCATTCTGTGATGAGTACTCTTCTGCACTGTTCTTTCTTCTAATAAACTTTCTTTTC  
GAACCTATACTGTCTTCTGTAATTTCTTCTTACTACCCTATGACCCGTGAGCCAACCACTTTC  
CGATGCCAGGGTTCTGACACCTCACCTGGCATAATATAAAGTGTTTTTTTATACCTTCC  
ACTTGAAAAGACTACAGAGGAATCTTGCATGATGTTCAAACCTAAAAAGAGAAGAGTTAAT  
TACCTGAAAAGCAAGAGAAAACAAGAAGGGTAAATTTGAACCAAGGGAAATCATTTAAGA

Table 4

AGTGTCTGGTATTTTTCAAATTTCTGTCAGTTGTTACATTTGTCATAAGTAAATGTTTAGGAAT  
AAAGGATGGAGACATGCTTATTTTATTTAACTCCCCCAAAAAAAAAAAAAAAAAAAGTACCT  
GCCCGGGCGGCCCGCCCCGGGCGGCCGCTCN

>280

ACGCGGGGGGGACGTAAGGTGGGGCGGTGAAAGAAGTTTGCTGACGAAGATGGC  
GACTGAGGCACAGAGTGAAGGGGAGGTGCCAGCCCGCAATCCGGCCGGAGTGATGCCAT  
CTGCAGTTTTGTGATCTGCAATGATTCTTCCCTTCGAGGTGACGCCATTATCTTTAATCCTGA  
CTTTTTTGTGGAGAACTCCGACATGAGAAACCTGAGATTTTCACTGAGTTGGTGGTCAGCA  
ATATCACAAGGCTCATCGATTTACCTGGAAGTGAAGTGGCTCAGCTGATGGGGGAAGTGGA  
CCTTAAGTTGCCTGGCGGGGCTGGCCAGCATCAGGATTCTTCCGGTCTCTCATGTCTCTC  
AAGCGAAAGGAAAAAGGAGTGATATTTGGGTCCCCACTGACGGAGGAAGGCATTGCCAGA  
TATACCAACTGATTGAGTATCTACACAAAACTTGCGAGTAGAGGGTTTGTAGAGTACCG  
GGTAATAGTGTCCGACAGCAGATTTAAGGGATGCTCTCAATAATGGAAGTACATTGACTT  
GGAATCAGGGGAATTTCACTCAAATGATGTTGCCACTTTGCTGAAGATGTTTCTAGGAGAGT  
TGCCGGAGCCTCTGCTGACACATAAACACTTCAATGCACACCTCAAAATCGTGATTGATG  
CAGTTTGATGATAAAGGAAACAAGACCAATATACCAGACAAGGACCGGCAAATTGAGGCTCT  
CCAGTTGCTCTTCTCATTCTCCCTCCTCCTAATCGTAATTTGCTGAAGTTATTGCTTGATCT  
CCTATACCAGACAGCAAAGAAAAACAAGACAAGAACAAGATGTCAGCCTATAACCTTGCCCTTA  
TGTTTGCACCCACGTCCTGTGGCCAAAAATGTCAGTGCATGACCTTCAGGAGAATATC  
ACAAAGTTAAACAGTGGGATGGCTTTTATGATTTAAACACTCCAGAACTTTTTAAGGCTCCT  
GCTTATATTCGGGAGTGTGCGAGATTGCACTATTTGGGATCCAGAACTCAGGCATCAAAGGA  
TGACCTTGACCTCATAGCTTCATGTCATACTAAGTCCTTTCAGCTGGCAAAGTCTCAGAAACG  
GAACCGGGTAGATTCTGCCCTCACCAGGAGGAGACCCAGCACCATACGGAAGAGGCACT  
GAGAGAGCTGTTTCAACACGTTTCATGATATGCCAGAGTCAGCAAAGAAGAACTTATTA  
GACAGTTTAAAGCAATCATTGACCCAGACACCAGGGCGAGAACCTTCTACTCCAGGTA  
CAAAGAGGGCTCGTTCGCGCTCCTTCAGTGGGCTTATTAAGCGGAAGGTCCTGGGAAATC  
AGATGATGTCAGAAAAGAAAAAGAAGAACCTACTCCAGAATCTGTGGCCATTGGTGAATTG  
AAGGGAACCAGCAAAGAAAAATAGGAAGTATTATTTTCTGGCTCTCCAGCTGTCACGATGAC  
ACCAACAAGATTGAAGTGGTCTGAAGGGAAGAAAGAGGGGAAAAAAGGATTTCTCTGAAGG  
ATCCAGAGTTGTCTCCTATGGTCCATGCAAGATTTTCTGTTTAGTGCGCAGGTGTTATTCCTG  
CCCACAGCAAAGCTTGGAAGTGCAGCTTGCTTGCTGCATTTTGAATTGTCAAAGCCAAGTAA  
TACCGTGACCCGACTGATACCTTAACCCCACTCACTGGATGATGTTTGCAAGCTGTGCCTT  
CTGAGAGAGTGCTTAGGCCCTGTCTCTCTTTTTTAATATTATGGGGAAGCACTAAGTATCCA  
ACCAGCTTATACAGCACACTAAGGTGGGCTTCAGTGCTCACTCAATGTGTTTAGGCAGATTC  
CACTTTTGAAAAAAATATGAAATGTGTGCTCAACTGCCAGTAATTTTTTAAAAAGCACTGTC  
CAGTGGATTGATGTTGTTTTAATGGATATTTGGGTTTTTCTCTGTTTGTATGATTGGGTA  
TTTGGTTGTTTTGTTTGTATTTCTTTGTTTTAAAGCCATGTTTTGGTTGGGCTCTAAGCT  
AGATATCTTCCCTCTTTTTCACTTTGAGCTTTGGGAAAACTCTTTATCTTATGAGGCTGTATT  
CCTCAATACCTAATTTGTGTCCAAAGAATTTATAGCTCTTCTGGACATTTTTTATTATTTCTTG  
GGTGTGACATCAGAGTATTTGACCTGCAGTATTGAAAAAGGAGAATTCAGAATGATACAGTA  
TTTTAACAAATCTTAATTATTAAGTCTTTTCTTCCCTCCCTTGTCCATCTC  
TCTCTCTCTTCCCTTCTCAGTGATGTGAAATAATTGTGTTTGTGTAAGTGTATCTTC  
ATTCAATTTCTCTTGACTAAAACATCTCTGGTGCCAACGTAATACTTCTGAACCACATCACT  
GTGACTCAAGGAAAGTCACTGACAGCATAAGAGAAGTTTGCTAAAATATTTGTATGTGGGGG  
AAGCTCTGGAGTGTGCCTAGGAGGGGGCTGGCTGCCTTTATGTCCAGGATGACTCTTTAT  
GGGTGGGATTACATTGCACCCTCTGAGGGTGCAGGCTAGACCGTCTCCTGAGAGGAAGTTA  
GGATCAGAAAGAAGAAGCAAGCAGCAGCCTCTGCAGGGCTGACAGGATTTAAAGGAGAGAA  
TGTTCTTATTTGGAAGCAGCTGTGGCTTGTACCAATGTTCAAGGAGTGTTACTGTTCCGCC  
CTCTCTTTGTGAGAAGGGACACAGGTGGTAATTTGGAGATGGGGCCAGAGCTTCTGGCTTTT  
GGATTTGGTGTGTTCACTTGTGTTGGATAGAGCAGTGGCATGGCTTTGACCTAGTATGAAT  
GGTGTCTGCCAGAGAGCAGCATGTAGCAGGGGGGAATGCTCAGGTTTGTGCCTGGCTCT  
GTGGAGCTGTACAACCTTCTCACCCTGTGGGTTGGAGCCGAGTCAGGCCACTATGGGGAA  
GCAGTTGCCCCACAAATGTGGTTTGTGACCTATTTCTAACTGTTGAATATGCTGCACCAT  
TGCTGAAATGAAAGATGACTCTGGGGGAGCAGAGCTTGGCCTTGTGCCAGCTGGCAGCCC  
CCTCTGCCAGCCTTTCTGCTGCTTGTGCTGTAACAGCAATAGTGGAGAAAAATGTAAGT  
TTGGTCTTCCAGCTTAATGCAGTGTGAACAATAGATGGTTAGGAAAAACAACTGCTTAGAA

Table 4

GCCCCCTTTCTCTAGAGCAGTTTTATGTCATTTGTAAAAACACATATTAGCAAATTCGTTTCGCG  
TAGGTTTTCTATTCAATATTTGACTTTTTTTTTCTTATTAAGAAAATGAAATCCCTTACACCAGAT  
ATCAGTTAATTCAAACAGAAAACCCCTTTGGGTATCANNNNN

&gt;281

NNNNNNNGCGCGCCGAGGTACGCGGGGGGAGACATGTGGAGTCCCAGCAGAGGCC  
AACCTGTGTCTCTTCATCTCCCTGGGAAGGGTGCCCCCGAAGTGAAAGAGATGGCCTGGTG  
GAAAGCCTGGGAGAATGAATAAACAGACTAGGTTGAATCCATACAATGGAATGGTAGCAGAC  
AATAAAAAGAAAATGAACTATTGATGCCCCCTACTGCACAGCAGAAGCTCTGAATCGTGTTT  
CTGAATGAAAGAAAGTCAGAGATGAAAAGATGGGCCAGGAGTCCAGTTTCTGGAAGGCCAAG  
AATCGAAGTAGCAAGCTGCAGCCGTTTTCCAGACAAGCATGATGTGGGGATGCAGAAGAAT  
TCAGGACTGGAGGGGCAAACCTCCGATGTGACTGAGGCCCACTGCCAAATGGCGGCATGC  
TCAGATAGCACCCAAGAATTTGGGGAAAAAACTGGTGCTCACAGCN

&gt;282

&gt;283

cAAAACTGGAGACTTTTAATGTATTTCTTTAATTTCCGACGCGTCCGATTTTGCAGT  
TGTTGAAATTGTCCCCGCAGTTTTCAATCATGTCTGAACCAATCAGAGTCCTTGTGACTGGA  
GCAGCTGGTCAAATTGCATATTCAGTGTGTACAGTATTGAAATGGATCTGTCTTTGGTAAA  
GATCAGCCTATAATTCTTGTGCTGTTGGATATCACCCCATGATGGGTGTCCTGGACGGTGT  
CCTAATGGAACTGCAAGACTGTGCCCTTCCCCTCCTGAAAGATGTCATCGCAACAGATAAAG  
AAGACGTTGCCCTCAAAGACCTGGATGTGGCCATTCTTGTGGGCTCCATGCCAAGAAGGGA  
AGGCATGGAGAGAAAAGATTTACTGAAAGCAAATGTGAAAATCTTCAAATCCCAGGGTGCAG  
CCTTAGATAAATACGCCAAGAAGTCAGTTAAGGTTATTGTTGTGGGTAAATCCAGCCAATACCA  
ACTGCCTGACTGCTTCCAAGTCAGCTCCATCCATCCCCAAGGAGAACTTCAGTTGCTTGACT  
CGTTTGGATCACAAACCGAGCTAAAGCTCAAATTGCTCTTAACTTGGTGTGACTGCTAATGAT  
GTAAAGAATGTCATTATCTGGGGAAACCATTCTCGACTCAGTATCCAGATGTCAACCATGC  
CAAGGTGAAATTGCAAGGAAAGGAAGTTGGTGTATGAAGCTCTGAAAGATGACAGCTGGC  
TCAAGGGAGAATTTGTCACGACTGTGCAGCAGCGTGGCGCTGCTGTCAAGGGCTCGAAA  
ACTATCCAGTGCCATGTCTGCTGCAAAAGCCATCTGTGACCACGTCAGGGACATCTGGTTTG  
GAACCCAGAGGGGAGAGTTTGTGTCCATGGGTGTTATCTCTGATGGCAACTCCTATGGTGT  
CCTGATGATCTGCTCTACTCATTCCCTGTTGTAATCAAGAATAAGACCTGGAAGTTTGTGAA  
GGTCTCCCTATTAATGATTTCTCACGTGAGAAGATGGATCTTACTGCAAAGGAACTGACAGA  
AGAAAAAGAAAGTGCTTTTGAATTTCTTTCCTCTGCCTGACTAGACAATGATGTTACTAAATG  
CTTCAAAGCTGAAGAATCTAAATGTCGTCTTTGACTCAAGTACCAAATAATAATGCTATAC  
TTAAATTACTTGTGAAAAACAACACATTTTAAAGATTACGTGCTTCTTGGTACAGGTTTGTGAA  
TGACAGTTTATCGTCATGCTGTTAGTGTGCATTCTAAATAAATATATATTCAAATGAAAAAAA  
AA  
aaaaaaaaaggggggggggggalttaaatatccgggggggggacgacaaataatgaaagacaacacacgctcttttagaaaaa  
gcagccaccataatggaggggtttataaaaggaagccggggaggtttaaaaagctgtgcgagagagaaaaatgtcgtgagttt  
tgaagaagacacatcctttgtgtgggtctagacgggaaccacaccgaaaagataaggacggggaaaatacaatgggtatagtgaa  
caggctttgtggcaaatgtcgtgttatata

&gt;284

NNNNCGCGGCCGCGTGCACNNGGCTGNGAGAAGACGACAGAAGGGGGGTGACAGA  
GCGAGATTCTATCCTAAAAAAGCAGCGGCTCGTGTTCGC  
GGCCGCTGACACGGCTGCGAGAAGACGACGAAGGGGGCTCTAAGCTGCAGCAAGAGA  
AACTGTGTGTGAGGGGAAGAGGCCTGTTTCGCTGTGCGGTCTCTAGTTCTTGACGCTCTT  
AAGAGTCTGCACTGGAGGAACCTCCTGCCATTACCAGCTCCCTTCTTGCAAGGGAGGGGG  
AAACATACATTTATTCATGCCAGTCTGTTGCATGCAGGCTTTTTGGCTTCCTACCTTGCAACA  
AAATAATTGCACCAACTCCTTAGTGCCGATTCCGCCACAGAGAGTCTGGAGCCACAGTCT  
TTTTGCTTTGCATTGTAGGAGAGGGACTAAGTGCTAGAGACTATGTCGCTTCTTGAGCTA  
CCGAGAGCGCTCGTGAAGTGAATCAACTGCTTCAGGGAAAAAGAAAAAAGAAAAAAGAA  
CTTGCCTGGGAGGCCGCGAGAACTTGCAATTGGAAGCTTCAGCAACCAGCATTGAGAAAC  
TCCTCTCTACTTTAGCACGGTCTCCAGACTCAGCCGAGAGACAGCAAACCTGCAGCGCGGTG  
AGAGAGCGAGAGAGAGGGAGAGAGAGACTCTCCAGCCTGGGAACATAAATCCTCTGCGA  
GAGCGGAGAACTCCTTCCCCAAATCTTTGGGGACTTTTCTCTTTACCCACCTCCGCC  
CTGCGAGGAGTTGAGGGGCCAGTTCCGGCCGCGCGCTTCCCGTTCCGCGTGTGCT  
TGGCCCGGGGAACCGGGAGGGCCCGCGATCGCGCGGCGCGCGCGCGAGGGTGTGAG



### Table 4

CGCGCGTGGGCGCCGCCGAGCCGAGGCCATGGTGACGCAACCAACAATGCCGAGAACA  
CGGAAGCGCTGCTGGCCGGCGAGAGCTCGGACTCGGGCGCCGGCCTCGAGCTGGGAATC  
GCCTCCTCCCCACGCGCCGGCTCCACCGCCTCCACGGGCGGCAAGGCCGACGACCCGAG  
CTGGTGCAAGACCCCGAGTGGGCACATCAAGCGACCCATGAAGCCCTTCATGGTGTGGTCG  
CAGATCGAGCGGCGCAAGATCATGGAGCAGTCGCCCGACATGCACAACGCCGAGATCTCC  
AAGCGGCTGGGCAACGCTGGAAGCTGCTCAAAGACAGCGACAAGATCCCTTTTCATTCGAG  
AGGCGGAGCGGCTGCGCCTCAAGCACATGGCTGACTACCCGACTACAAGTACCGGCCCA  
GGAAGAAGGTGAAGTCCGGCAACGCCAATCCAGTCTCTCGGCCGCCGCTCCTCCAAGC  
CGGGGGAGAAGGGAGACAAGGTTCGGTGGCAGTGGCGGGGGCGGCCATGGGGGCGGCGG  
CGGCGCGGGAGCAACAGCGGGGGGAGAGGCGCGGCTGCGAGTGGCGGCGGCGCGGCG  
AACTCCAACCGGCGCAGAAAAAGAGCTGCGGCTCCAAGTGGCGGGCGGCGCGGCGGCG  
TGGGGTTAGCAAACCGCACGCCAAGCTCATCTTGGCAGGCGGCGGCGGCGGCGGGAAG  
CAGCGGCTGCCGCGCGCGCTCCTTCGCGCGCGAACAGGCGGGGGCGCGCCGCTGCTG  
CCCCTGGGCGCGCGCGGACCACTCGCTGTACAAGGCGCGGACTCCCAGCGCCTCG  
GCTTCGCTCCTCGGACGCTCGGCTCCGAGCGCTCGCGCCCCGGGCAAGCACT  
GGCGGAGAAGAAGGTGAAGCGCGTCTACCTGTTTCGGCGGCTGGGACGTCGTCGCGC  
CGTGGGCGGCGTGGGCGCGGGAGCCGACCCAGCGACCCCTGGGCTGTACGAGGAGG  
AGGGCGCGGGCTGCTCGCCCGACGCGCCAGCCTGAGCGGCCGACGACGCGCCGCTCG  
TCCC CGCGCGCGCGCTCGCGCGCGGACCCAGCGGCTACGCGAGCCTGCGCGCGCGC  
CTCGCGCGCGCGCTCGAGCGCGCTCGACGCTCCTCCTCGGCTCGTCCACTCCTC  
CTCTTCTCCTCCTCGGCTCCTCGTCTCCGACGACGAGTTTGAAGACGACCTGCTCGAC  
CTGAACCCAGCTCAAACCTTTGAGAGCATGTCCCTGGGACGCTTCAGTTCGTGTCGCGC  
TCGACCGGGACCTGGATTTAACTTCGAGCCCGGCTCGGCTCGCACTTCGAGTTCGCGA  
CTACTGCACGCCGAGGTGAGCGAGATGATCTCGGAGACTGGCTCGAGTCCAGCATCTC  
CAACTGGTTTTCACTACTGAAGGGCGCGAGGAGGAGAAGGGCGGGGGGGTAG  
GAGAGGAGAAAAAAGTGAAAAAAGAAACGAAAAAGGACAGACGAAGAGTTTAAAGAGAA  
AAGGGAAGAAAGAAAGAAAGTAAAGCAGGGCTGGCTTCGCGCGGCTTCTCGTCGTGCGAT  
CAAGGAGCGCGGCGGCGTTTTGGACCGCGCTCCCATCCCCACCTTCCCGGGCCGGGGA  
CCCACTCTGCCAGCGCGGAGGACGCGGAGGAGGAAGAGGGTAGACAGGGGCGACCTGT  
GATTGTTGTTATGATGTTGTTGTTGATGGCAAAAAAAGAGCACTCGAGTTTGCTCCC  
CTTTGCTTGAAGACACCCCTCCCCCTTCCAACGAGCTTCCGCACTTGTCTGCACCCCCG  
CAAGAAGGCGAGTTAGTTTTCTAGAGACTTGAAGGAGTCTCCCCCTTCTGTCATCACCACT  
TGGTTTTGTTTTATTTGCTTCTTGGTCAAGAAAGGAGGGGAGAACCCAGCGCACCCCTCCC  
CCCCTTTTTTAAACGCGTGATGAAGACAGAAGGCTCCGGGGTGACGAATTTGGCCGATGG  
CAGATGTTTTGGGGAAACGCGGGGACTGAGAGACTCCACGAGGCGAATTCCTGTTGGG  
GCTTTTTTTTCTCCCTTTTTCCCCCTTGGCCCTTCTGACCGGAGGAGGAGATGTTGAGG  
GGAGGAGGCCAGCCAGTGTGACCGGCGCTAGGAAATGACCCGAGAACCCCGTTGGAAGCG  
CAGCAGCGGGAGCTAGGGGCGGGGGCGGAGGAGGACAGAACTGGAAGGGGGTTACGCG  
TCAAACGAAATGGATTTGACGTTGGGGAGCTGGCGGCGGCGGCTGCTGGGCTCCGCC  
TTCTTTTCTACGTGAAATCAGTGAGGTGAGACTTCCAGACCCCGAGGCGTGAGGAGAG  
GAGACTGTTTGATGTGGTACAGGGGAGTCAGTGGAGGGCGAGTGGTTTGAAGAAAAA  
AAGAAAAACCGAAAGGAATGAAGAAAAAAGATTTTTTTCTTCTTAATCGGAATCGTGATG  
GTGTTGGATTATTTCAATGGTGGGGTTAATATAGCATGTTATCCTGTCTATCTTTAAAGATT  
CTGTATAAGACTGTTGACGAGTTTTTAAATAGTGTAGGATAATATAAAAGCAGATAGATGG  
CGCTATGTTTGATTCTACAAGAAATATCACCAGCTTTTTTTCATTCTTAATCTTTAAAG  
ATTCAAACGCAACTCAAATCTGTGCTGGAATTTAAAAAACAATTCAGGACCAATTTTTTCTC  
AGTGTGTGTGTTTATTCCTTATAGGTGTAAATGAGAAGACGTGTTTTTTCTTCACCGATGC  
TCCATCCTCGTATTTCTTTTTCTTGTAAATGTAATCAGATGCCATTTTATATGTGGACGTATT  
TATACTGGCCAAACATTTTTCTTTTGGCTTTTTTTCTTTCTTTCTTTTACTTCTTTAT  
TTCTTTATCTTCTTTTTCTTTTTCTTTGTTTTCTTTTTCTTTTTTTTTTTGGGAAGTTGT  
TGTTACCCACGCCATTTTACGTCTCCTTCACTGAAGGGCTAGAGTTTTAACTTTAATTTTTTA  
TATTTAAATGTAGACTTTTGACACTTTTAAAAAACAAAAAAGACAAGAGAGATGAACCCGTT  
GGATTATTTCTCAGGGTATTTTGGTAACACAATATATAAGGGGGGTGTAATCGGGGTAACT  
CGCTGTTGGATTCCGGATTTTATAACAGCGCGGGGGGTAAATATCTCACACCGCTTAGAAA  
ATCGAGGCCCTAAATTTTCTCCATGGTGTAACCCCTTATCTCGGGGTTCTTCAAGGTTGAC  
AGATATCCCTTAATGGCACCAAGGTTTTACCCTTCGGGCCCGGTTTTGTTTAAAGGCGCGG

Table 4

GGGACATTGAGGCAACAAAGGTTGCGTTTTAGGAACACCACAGGCTTTTCGGAAATATGGC  
GCTGTCCAGAGGGTTAAATTGTGCGATCAGCCAAAGGGGTGTGGCTTAATGTGAACCCACT  
TTTGGCCNNNNNNNNN  
>285  
CGACCCACGCGTCCGGCGACGCCAAACATGGCGTGTTCCTAGAAGCCGCTTTTCGG  
CATCAGTAGGCGGCGGCGTGGGGTCTGGCAGCGTGGGGAGAGGGACCAACCGACGCCAC  
TTCGTGTTGGGAAGTGGGAGCGGGAGGGCCGGGCAATTCCCGACCGAACCAACGGTTTC  
CATGGATCTCAATAGTGCCAGCACTGTTGTTCTTCAGGTGTTAACACAGGCCACCAGTCAGG  
ATACTGCTGTGTTAAAACAGCTGAGGAGCAGTTGAAGCAGTGGGAGACACAGCCAGGTTT  
CTATTCAGTGTTGCTGAATATTTTACCAACACACACTTTGGATATAAATGTAAGGTGGCTTGC  
TGTAAGTGTATTTTAAACATGGAATTGATCGCTACTGGAGACGTGTAGCACCTCATGCTCTCTC  
AGAGGAGGAGAAAACACTACTCTGCGTGCAGGGCTCATCACCAACTTCAATGAACCAATAAAC  
AGATTGCAACTCAGATTGCAGTGCTCATTGCAAAAGTTGCTAGATTGGATTGTCCCAGACAG  
TGGCCTGAACATAATCCCACTCTTATAGAGTCTGTTAAAGTCCAGGATGATCTTCGACAGCA  
CAGAGCATTACTTACCTTCTATCATGTTACCAAGACACTGGCATCTAAACGACTTGCTGCTGA  
TAGAAAACATTTTTATGATTTAGCTTCTGGAATTTATAATTTTGCCTGCTCTCTGTGGAATCAC  
CACACAGACACATTCTGCAAGAAGTTTCTTCTGGCAATGAAGCTGCAATTTTGAGTTCATA  
GAACGAACACTGCTATCATTGAAAGTGCTGCGTAAGTTAACTGTTAATGGATTTGTGGAACCT  
CATAAGAATATGGAGGTGATGGGTTTTTACATGGAATATTTGAACGTCTAAAACAGTTTCTG  
GAATGCAGTAGAAGTATAGGTACAGATAATGTGTGTAGAGATAGACTGGAAAAGACCATCAT  
TCTTTTACTAAAGTGCTTTTGGACTTCTTGGATCAGCATCCTTTTCACTTACTCCTCTAATT  
CAGAGATCACTGGAATTTTCTGTAAGCTATGTTTTACAGAAGTTGGTGAAGGCGTTACATT  
GAACGATTCAATTGTCCAATGTATGAATCTTATTAAGATGATTGTCAAAAATTATGCTTATAAGC  
CATCCAAAAATTTGAAGATAGCAGCCCTGAACTCTTGAAGCCCATAAGATTAAGATGGCAT  
TCTTACATATCCTACTTTGACAGAGATATGTAGAAGATTAGTCTCTCATTATTTCTTAAAC  
TGAAGAAGAACTGACAATGTGGGAAGAAGACCCAGAAGGCTTACAGTGGAAAGAAACAGGA  
GGAGATTCTTGAAATATAGTTTGAGGCCATGCACTGAAGTATTATTTATAGATATATTCCAT  
GAATATAATCAGACTCTTACTCCTGTACTTCTAGAAATGATGCAAAACACTTCAAGGACCCACA  
AATGTGGAAGATATGAATGCACTGTTAATCAAAGATGCTGTGTATAATGCTGTTGGATTAGCT  
GCTTATGAGCTCTTTGACAGTGTTGATTTTGTATCAGTGTTTAAAAACAGCTTCTTCCAGAA  
TTACAAGTCATTACAAATAGGTATAAGCCATTGCGACGCAGGGTGATTTGGCTCATCGGTCA  
GTGGATTTCTGTGAAATTCAAGTCTGACTTAAGACCCATGCTTTATGAAGCAATCTGTAACCT  
GCTTCAAGATCAAGATTTAGTGGTCCGTATTGAAACAGCTACAACCTTTGAAGTTAACTGTTGA  
TGATTTTGAATTTAGAACAGATCAGTTTCTACCGTATTTGGAAACCATGTTACACTACTTTTT  
CAGTTACTGCAGCAAGTTACAGAATGTGACACAAAGATGCATGTTTGCATGTCCTTTCTTGT  
GTGATCGAAAGAGTCAACATGCAGATACGACCATATGTGGGATGTTTGGTACAATATTTGCC  
CCTCCTTTGGAAGCAGAGTGAAGAACACAATATGTTGAGATGTGCTATTTTGACAACACTTAT  
TCATCTTGTTCAGGGATTAGGAGCAGACAGCAAGAACCTGTACCCTTCTGCTCCAGTTA  
TTCAACTGAGTACAGATGTTTACAGCCTCCACATGTTTATCTTCTGGAAGATGGTTTGAAT  
TATGGTTAGTAACTTTGGAAAACAGTCCATGTATTACACCAGAGTTGCTTCGTATATTTTCA  
ATATGTCACCACTTCTTGAACATAAGTTCAGAAAATCTTAGAACTTGCTTTAAGATCATCAATGG  
TTATATCTTTTTATCATCAACAGAATTTTACAGACATACGCAGTAGGTCTATGCCAGTCCTTT  
TGTGAACTTTTAAAGGAAATTACTACAGAAGGTCAAGTTTCAGGTGCTCAAGGTTGTGGAAT  
GCCCTTAAAGTGAACCAATACTAGGTCCACAAATGTTTCAACCGATTTTACCCTATGTTTT  
AAGGGTATTATAGAAGGGGAGAGGTATCCTGTAGTGATGTCCACGTATCTTGGAGTTATGGG  
TCGAGTTCTACTACAAAACACTAGTTTTTTTTCTTCACTACTTAATGAGATGGCCCATAAATTT  
AATCAGGAGATGGACCAGCTTTTGGGAAATATGATTGAAATGTGGGTTGATCGAATGGACAA  
CATTACCCAGCCTGAAAGAAGAAAACCTTTAGCTTTGGCTTTGCTCTCTCTTCTGCCATCTGA  
TAATAGTGTATCCAAGATAAATCTGTGGGATTATAAACATTTTCAGTAGAAGGCCCTGCATGA  
TGTCATGACGGGAAGATCCTGAAACAGGAACCTTATAAAGACTGTATGTTGATGTCCTCATTTGA  
GGAACCAAAAGTAACAGAAGATGAAGAACCACCCACAGAACAAGATAAGAGGAAAGATG  
CTGGCCCTGAAGGACCCTGTTACATACAGTGTCACTGCAGCAGTTCATCTACGAGAAGCTCAA  
GGCACAGCAGGAGATGCTAGGAGAACAAGGTTTCCAGTCCCTCATGGAACAGTGGATACG  
GAGATTGTCACCCAGCTACAGGAGTTTTCGAAGGATTCTAAGAGCATGACATGTGGCTG  
CCTCCCTTTCAGAAACAAGCTGAGTAACCCAGCCTGCCGTTTGTATGTGAGAGCCTGCTGA  
GATGAAGAAATCACTTCATGAAAATAAGCAAAGACCACACATTTTTTACTACAAAATGTAAGG

Table 4

TAATGTAATCGGATAATAAGATAAGCTATTCTCAAAGATTGATTCATTTATGGAGGGGCTTCA  
TAAAAGTCGTAGTTACTTGAGAAAGGGGTGTTCTGTTAGAGAAAAATAGTTAGTGGCTAATTGA  
GAGAGAACGGAAGTTGCGAAATGAAGGGCTCTTACGGAAGGGAAAGAGGGGGAAAGGGTAA  
ATTAGAAACAGGGGAGAAGTAATAAGAAGTAAGAGAGGAGTGTANN

&gt;286

&gt;287

NNATGTGGTTACGACCCACTGTATTGAGGTGACGCGATCCATAGGCTGTGGTGT  
GTTTTCGCTGATCCACACAAACGTTGGGGCACTGTCTATTTCATGTGTTCAAGCTGAAGGCTC  
GTTCTCGGTTGTCAATTTACAGTGTCTTCTACGGGGTTACATTACAGGAATGTTGTAGCGAC  
GTTTAGCCCGTGGAGTATCAACGTCTTGAGACTCCGTGTGAGACTCCCTGGTTTGTCCACA  
ACAGTGTGTTTTAGATTCCGTACCTTTGATTAAGGAACACATCATGCCGTGAAGCCAATTTA  
TATTCTGCAATTCGTAGTGCATGTAATGTATTCTGCCGTCTCGTAGTGTGAAGCCATGCTTG  
GCACATCCAGTTCTTTGATGTCTGGCTGCCTTCTGCGGGCCAACGTCTTGTGGAATTCGTT  
GCTCCCAGAGATAGCTTGAAGTGCAGATCCCGCACAGCATTGCACTGAGCTGTCGTTGTATC  
TGAGCCTGGACATGGCGGCCGAGGTACTCACAGTCACGCAAATTCACAGTCTGCGTGCACG  
GCTCTCCATTCTTCTTCTTGGCTTTACAGGTTCCAGGTCAAGAGCTTCACCCATAATTAAGA  
CCTTCTGAGGATGATCGATAGATAAACACACCTCCTCTGAACCATCCTTGGGCTTCATGGGG  
TTGGCATTGAGGATCCCTACGACAGTCCCCTGCTCCGTCTTCCAGAGCGCTTTGTGAACCTTC  
TCCAAATAAGAACAAGGACACACATTGTGTCAGGTACGAAGATCATTAGTTTTCCATATGCT  
GAAGGTTTTTCCACTATTCACACTCTGTGGCGTAACCTTCTTCAATATAACCCCAAATGTCAC  
CCAATCTATTTCTTCCAGCTTCTCTCTGGCCATCTTTTCTTGATCTGAGACAGTCTGATCAG  
TTTTCGGCCGGTCACTGTGCTTTCGTTTCAATTTCTCTGGAGGATACTCGAGCCCGCCTCGAGC  
CGCAGACCAGGAGAAGGCTTCCACACAGATGGCGATTGAGTCGTTTTCTCACAGAACCTTTC  
ACTCGGGGTCCACCACATATTTGACCTCTAGTTATCCCACTAGGTTTGTCCGAGAAATCGT  
CTGTAGGGGTTGGGAGGGTGCATCTTGAAGATGAGCTTTTGGGATCTGGAGGT  
GAAGCCTTTGGTGTTCGAGCCACCCTCTTGGTCTTGGTAGCGCAGGGACATCAAGCTCCG  
CAGAAAAGCATGTTGACTCCTGAATCTCTGAATCTCCTCTCCTTAAGAGGTGGCCGGGGA  
GACTTCTCAGGGGATTTTTGACAGACGGGCTGGGCTTGGTGTCTGTTTAATTGTTGTTACTTTT  
AGCTGCTCTTGAAGGCCTTCATTTGCTCTTGCAAATTCCTTAATTCCTCTTGCAACTCTTCAT  
TCGTTTTCTCTCGCCTGGGGGCAGGAGCAGGGAGGACCCTATTTTCAGTTGACTGTGATGC  
GGGAACCTTCTTCTCATCTGTTAAGTCCCTCATATCTCCAAAGAGAGTGGCCAGATTTTCTT  
TTCGTCTCTTGTCTCTCCTGTTTCTCCATCATCAGCCTCTTCTGTATAAGATTACCGTCTGCC  
GTCTCTCAGGGGATTTTTGACAGACGGGCTCGGGCTCGCCATTTTCCCGCGTCAAGAAGTTAT  
TTTTCTTCTGAATTACAATCCAAGGCTGACTCATTTTCTTCCAGCAGTGCGGTCAGCAGAGACA  
GATTGTCTTCTCCTCATCCATGCTGTCAAGAGGACAGTTGTGACAGGAACTTCGAAGGAG  
GCTCAGATGCCAGATGAGCAATGTAGAATCTTGGCCGATGCCGGGACGCCTTCTTCGTTCT  
ACAGCTGAACCCGCCAAATCGGACNN

&gt;288

&gt;289

NAGTCGCGCGCGGTGCAGTCGGGAGGTGGAGGCACCGGCTGCATTGTTTTCGGGA  
TCGAGGGGTGAGGGCGCTATGGCACCCGGCTGCAAACTGAGTTACGCAGCGTGACAAAT  
GGTCAGTCTAACCAACCAAGTAATGAAGGTGATGCCATCAAAGTTTTTGTGCGAATTCGTCC  
TCCTGCAGAAAGATCTGGGTCAGCTGATGGAGAGCAGAACTTATGCTTATCTGTGCTGCTCCT  
CCACGAGTCTCCGGCTGCACTCCAACCCTGAGCCCAAGACCTTCACGTTTGATCATGTTGCA  
GATGTGGATACCACTCAGGAATCTGTATTTGCAACTGTGGCTAAAAGCATTGTGGAGTCTTG  
CATGAGCGGTTATAATGGTACCATCTTTGCATATGGACAGACTGGCTCAGGGAAGACATTTA  
CTATGATGGGACCATCTGAATCTGATAATTTTCTCATAACCTGAGAGGAGTAATCCCACGAA  
GTTTTGAATATTTGTTTTCTTAATTGATCGTGAAAAAGAAAAGGCTGGAGCTGGAAAGAGTT  
TCCTTTGTAAGTGTTCTTTATTGAAATCTACAACGAGCAGATATATGATCTACTGGACTCTG  
CATCGGCTGGACTGTACTTAAGGGAGCATATCAAGAAGGGAGTCTTTGTTGTTGGTGCAGG  
GGAGCAGGTGGTAACCTCAGCTGCTGAAGCCTATCAGGTGCTGTCTGGAGGATGGAGGAAT  
AGACGTGTGGCATCAACATCAATGAACAGAGAATCGTCTAGGTCTCATGCCGTCTTTACAAT  
TACAATAGAGTCAATGGAGAAAAGTAATGAGATTGTGAATATACGGACCTCCCTACTCAACCT  
GGTGATTAGCAGGATCTGAAAGGCCAAAAGATACCCATGCAGAAGGGATGAGATTGAAG  
GAAGCAGGTAACATAAATCGATCATTTGAGCTGCCTGGGCCAAGTGATTACAGCACTTGTCTGA  
CGTGGGTAATGGAAAACAGAGACATGTTTGCTACAGAGACTCCAACTTACCTTCTTACTAC

Table 4

GGGATTCCCTTGGAGGTAATGCCAAAACAGCCATAATTGCAAATGTTTCATCCTGGATCCAGG  
TGTTTTGGGGAAACCCTATCAACACTTAACTTTGCTCAAAGAGCCAAGCTGATTA AAAACAAG  
GCAGTAGTAAATGAAGACACCCAAGGAAATGTGAGCCAGCTCCAAGCTGAAGTGAAGAGGC  
TCAAAGAACAACCTGGCGGAGCTTGCTTCAGGACAGACACCACCAGAAAGCTTCCCTGACCAG  
AGACAAAAAGAAGACTAACTATATGGAGTATTTCCAGGAAGCAATGTTATTCTTTAAGAAATC  
TGAACAGGAAAAAGAAGTCTCTGATAGAAAAAGTTACCAATTAGAAGACCTCACCTC AAAA  
AGGAAAAATTTATTCAATCTAATAAAATGATTGTGAAATTCGAGAGGATCAAATAATACGCTT  
GGAAAAGCTCCACAAGGAATCCCGGGGAGGTTTTCTGCCTGAGGAGCAGGATCGTTTGCTC  
TCAGAATTAAGGAATGAGATTCAAACCTCTGCGAGAACAAATAGAGCACCACCCAGAGTTGC  
AAAGTATGCTATGAAAAATCATTCCCTCAGGGAGGAGAATAGAAGACTGAGATTATTAGAGC  
CTGTGAAAAGAGCTCAAGAAATGGATGCCAGACCATTGCAAAACTAGAAAAAGCTTTCTCT  
GAAATAAGTGGCATGGAGAAAAAGTGACAAAAATCAGCAAGGATTTTACCTAAAGCTCAGAA  
AGAGCCATGTTTGTGTTGCAAACACTGAGAAGTTAAAGCACAACTCCTGCAAATTCAGACAG  
AGCTGAATAATTCAAAGCAAGAATATGAAGAATTCAAAGAACTTACTAGGAAAAGGCAGCTA  
GAATTGGAATCAGAGCTTCAGTCTTTGCAAAAAGCGAACCTTAATCTTGAAAACCTTTTGAA  
GCAACAAAAGCCTGCAAGCGGCAAGAAGTTTCTCAGCTGAATAAAATTCATGCTGAAACACT  
TAAGATTATAACTACACCAACCAAGGCCTACCAACTTCATTCCCGACCAGTACCAAAATTAAG  
CCCTGAAATGGGAAGCTTTGGCTCTCTATACACTCAGAATTCATAGCATATTAGATAATGATAT  
ATTAATGAGCCAGTTCCCTCCTGAGATGAATGAACAAGCTTTTGAGGCCATTTCTGAAGAGC  
TTAGAACAGTGCAGGAACAAATGAGTGCTCTTCAAGCCAAACTGGATGAAGAAGAGCATAAA  
AACCTAAAGCTTCAGCAGCATGTTGACAACTGGAACATCATTCTACCCAAATGCAGGAGCT  
TTTCTCATCAGAAAGAATTGATTGGACCAAAACAGCAGGAAGAGCTTCTCTCACAGTTGAATGT  
CCTTGAAAAGCAGCTTCAAGAGACTCAAACCTAAAATGACTTTTTGAAAAGTGAGGTACATGA  
CCTGCGAGTAGTCCTTCATTCTGCTGACAAGGAGCTTTCTTCAGTGAATTTGGAATATAGTTC  
ATTCAAAAGCAATCAGGAGAAAGAATTCAACAACTTTCTGAAAGACACATGCTACAGCT  
TCAATTAGATAATCTCAGGTTAGAAAACGAAAAGCTGCTTGAGAGCAAAGCCTGCCTACAGG  
ATTCCTATGACAACCTACAAGAAATAATGAAATTTGAGATTGACCAACTTTCAAGAAACCTCC  
AAAACCTTCAAAAAAGAAAATGAAACTCTGAAATCTGATCTGAATAATTTGATGGAGCTTCTTG  
AGGCAGAAAAAGAACGCAATAACAAATTTATCATTACAGTTTGAAGAAGATAAAGAAAACAGTT  
CTAAGAAATCTTAAAAGTTCTTGAGGCTGACGTGAGGAGAAACAGAAAGAGACGGCCAGG  
TGTGAGCAGCAGATGGCAAAAGTACAGAAACTAGAAAGAGAGCTTGCTTGCTACTGAAAAAGT  
GATCAGTTCCCTGGAAAAGTCTAGAGATTCTGATAAGAAAGTTGTAGCTGACCTCATGAACC  
AGATCCAGGAGCTAAGAACATCGGTCTGTGAGAAAACAGAACTATAGACACCCTGAAACAA  
GAACTGAAGGACATAAATTGCAATACAACCTGCTTTGGTTGACAGAGAAGAGAGCAGAGT  
GTTGATCAAGAAGCAGGAAGTGGATATTCTGGATCTGAAAGAAACCCTTAGGCTGAGAATAC  
TTTCTGAGGACATAGAGAGGGATATGCTCTGTGAGGACCTGGCTCATGCCACTGAGCAGCT  
GAACATGCTCACAGAGGCCTCAAAAAAACCTCGGGGCTGCTGCAGTCTGCCAGGAAGAA  
CTGACCAAGAAGGAAGCCCTGATTCAGGAACCTCAGCACAAGCTAAACCAAAAGAAAGAGG  
AAGTAGAACAGAAGAAGAAATGAATATAACTCAAATGAGGCAACTAGAACATGTGATGGATT  
CTGCTGTGAGGATCCCCAGAGTCTTAAGACACCACCTCACTTTCAAACACATTTGGCAAAA  
CTCCTGGAAACACAAGAACAAGAGATAGAAGATGGAAGAGCCTCTAAGACTTCTTTGGAACA  
CCTTGTAACAAAGCTAAATGAAGACAGAGAAGTCAAAAATGCTGAAATCCTCAGAATGAAGG  
AGCAGTTGCGTGAAATGGAAAACCTACGCCTGGAAAGTCAGCAGTTAATAGAGAAAAACTGG  
CTCCTGCAAGGTGAGCTGGATGATATTAAGACAAAAGGAAAAACAGTGATCAGAATCATCC  
AGATAATCAACAGCTGAAGAATGAACAAGAAAGTATCAAAGAAAGACTTGCAAAAAGTA  
AAATAGTTGAAGAAATGCTGAAAATGAAAGCAGACCTAGAAGAAGTCCAAAGTGCCCTTTAC  
AACAAAGAGATGGAATGCCTTAGAATGACTGATGAAGTCGAACGAACCCAAACTTTGGAGTC  
TAAAGCATTCCAGGAAAAAGAACAACCTGAGATCAAAGCTGGAAGAAATGTATGAAGAAAGAG  
AGAGAACATCCAGGAGATGGAAATGTTAAGGAAGCAGGTGGAGTGTCTTGCTGAGGAAAA  
TGGAAAAGTTGGTAGGTCACCAAAATTTGCATCAGAAGATTGATACGTAGTGCAGCTAAAGA  
AGGAAAATGTGAGGCTTGCTGAGGAGACAGAAAAGTTGCGTGCCGAAAATGTATTTTAAAA  
GAAAAGAAAAGAAGTGAATCTTGAGGATTCCGGTCAGCTACCTAGGCATCACCTTGTTTGAA  
GATGTTTCTTCTCTTTTACAAGTAAGACCTACTCCTGGCCACTTAGGAGAGCTGAATTTATGG  
ACCTTAATTATTAATGTTTATAAGGTGGTGGTAACCACCTCAAGTTTCTGATGAACATTCTG  
CATCCATATACACCCTGTGACAGTCAGCAGTCTGCTATTAAGTGGCCTACTTCAAGGCTTTG  
AATCAACTTAAGGGAAAACCTTTTGCTTTGTA AAAATAAAAGCCTGTAGCTAAGGTTTACAG

Table 4

TGGACATTAGCCAGATCATTTTCTTCTTAGATTATGCCATAATCTCCTTTGATTCTTATGGAAG  
TTCTAACAATATATGGTGGTTCCAACACCTGCAGTGAGTTTAAATGACTGACTTAGTAGCAGGT  
ACAAGAAGCAAACCTTGTTAATATAGATTATTTTGTATTCTTACTTTAGGTATTTTCTTGAGCAT  
TTTCCATGACTGTAAATAAAGCCATTTTTTAAGATAAAAAAAAAAAAAAAAAAAAAAGGGCG  
GCCGCN

&gt;290

&gt;291

NNACACATTGTAATATTATATCATGTATAGTTGTACGCAGCTCTGTGCATAACTGTGG  
TAACTTTGTGGGTCGCTCCTGTGGGTCCTGAAACAATGCAGTTCTCCCCGCGTATGCGACAT  
CCGGCTGATGGTCATGGAGATCCGCAATGCTTATGCTGTGTTATATGACATCATCCTGAAGA  
ACTTCGAGAAGCTCAAGAAGCCCAGGGGAGAAACAAAGGGAATGATCTATTGAGAGCCCTC  
TCTCCCATCTGTGATGAGTACTCTTCTGCACTGTTCTTTCTTTCTAATAAACTTTCTTTTTC  
GAACCTATACTGTCTTCTGTAATTTCTTCTTACTACCCTATGACCCGTGAGCCAACCACTTTC  
CGATGCCAGGGTTCTGACACCTCACCTGGCATAATATAAAGTGTTTTTTTTTATACCCTTCC  
ACTTGAAAGACTACAGAGGAATCTTGCACTGCATAGTTCAAACCTAAAAAGAGAAGAGTTAAT  
TACCTGAAAAGCAAGAGAAAACAAGAAGGGGTAAATTTTGAACCAAGGGAAATCATTTAAGA  
AGTGTCTGGTATTTTTCAAATTTCTGTCACTTGTACATTTGTCATAAGTAAATGTTTAGGAAT  
AAAGGATGGAGACATGCTTATTTTATTTAACTCCCCAAAAAAAAAAAAAAAAAAAAAGTACCT  
GCCCGGGCGGCCGCCCGGGCGGCCGCTCN

&gt;292

NNNNNNNNNAAAAAGGGGGGGGAAAAAAACCCCTAAAGGGGGAAATGGGGGTCC  
CCCCCGGGGGGGGGCCCCCNTTTTTTTTTTTTTTTTTTTTTTTTNNNTNGGATATGTACCCAGAAA  
TGGGATTGCTGAGTCAGATGGTAGTTCTATGTTTAAATTTTGGAGAACTTCCATACTGTTTT  
CCATAATGGAGCACTGTATTCTTGATGTTACATTTCAAAGAGCTGGCTTCCAGTACTTGAGA  
AAGACATCTCTCGTCTCTCTACAATCCTACAGTTGTTGAATCCACTCATATGGAACATGG  
ATACAGAAGGCCGCTTTTGGTGACTTGGTGCTCCTTGGAGTCACTGGAGTTCTACTTTGAA  
TCCCACTCTGACATCAATCGACTGCCTTAATTCCTGGTCCAGCTGCCCGACCCTGACTCTCT  
CCCGCTCTTTTCTCAGGTCAAGGTTTCTTTAAGATCACGCTGACGTGCGACCCACGGCT  
GCCGTACAAGTGTGAGTAGCTCGGCCGAGATGGGCCTTTTGGGGCCGGACAAGACGGGG  
CTGGGTTGGGGATGATCCGAGCCTTTCCAACAACCTACCCACGCAGTCTTCATCTCTTCACT  
TCATCTACTTTCTGCTCGCGCCCTTCCAGGAGCCTTCCACCGGAGCCTGCGAGGAGA  
GGTCCGTAAGTGTGCTAGTGTGACCCGGACNN

&gt;293

NNNNNNNGTGAGGNNNTACTTGACGTGGGGAGTGTCTGGAGACGGTCTCAGTTNN  
CAGCACAGAGACAATAAACCTCTTATTGCTATGAACACCCNGCCCCAGCAATTGGATTGGGG  
AGCCCGCCTTGACACACCACTGTGCTGAGTGCTTGAGGACGTGTTTCAACAGATGGTTGGG  
GTTAGTGTGTGCGAGCACATTGAGTGGGGATTAAGAGAAGGAAGGCTGCCTTGCTGGAGC  
TGTGTGGTCTTCTCCAAGTGAGAGTGCAGGCAATAGAACTACTTTGCTTTTGGAGGAAAAG  
GAGGAATTCATTTTCAGCAGACACAAGAAAAGCAGTTTTTTTTTTCAGGTGCTGACGGCCACC  
CACCATCATCTAAAGAAGATAAACTTGGCAAATGACATGCAGGTTCTTCAAGGCAGAATAATT  
GCAGAAAATCTTCAAAGGACCCTATCTGCAGATGTTCTGAATACCTCTGAGAATAGAGATTG  
ATTATTCAACCAGGATACCTAATTCAAGAACTCCAGAAATCAGGAGACGGAGACATTTTGTCA  
GTTTTGCAACATTGGACCAATAACAATGAAGTATTCTTGCTGTGCTCTGGTTTTGGCTGTCCT  
GGGCACAGAATTGCTGGGAAGCCTCTGTTGCACTGTCAGATCCCCGAGGTTGAGAGGACGG  
ATACAGCAGGAACGAAAAACATCCGACCCAACNNNNNN

&gt;294

TGGCGGCCGCCCCGGGCAGGTACGCGGGAGGCACATTTCTTTTCTACGTGAAGAGTT  
TTGTAACCTGAACCTTTGTTTTAGTTCCGGCTCCAGCCATCCTCGGGTAGCTTGCCAATAGAT  
GAATCCCACTCGTTTGACCCATGACGCTCCTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTT  
TGCATGTCCACCATACCACCTGAGAGTCTGTGGAATCTAATTTTCTGTTATACTTCTTTCTTA  
CACTCATTTTCTGTCTTTATTATGATAGTCTAACTTTTTCTCCTCAAAGGTATAGCTGCCTTG  
CTTTTCATGAAAACACACTTTTCTATTGTGATTTATCAGAGGCCTTTCCATATCTCAGCCACTAT  
GCTATGACAGATTTTATAATTAATAAGTGCATTTCAAAGTGAAAACGTTACAAACATGCTTAAC  
AGATGTTTTTATAACATGAAATATTCTACTGCGTTAAGATCAAATGCTGACTATACTTGTTC  
GTATACCTTCAGACCACTGTTAATGTAATTTTTGGCAAGGTGAATGGTCTTTTTTGGATATAA

Table 4

AAATCTCAGCATAAGCCAGGCATGGTGGTACACAGCTGTATTCTCAGCTATTTAAGAGGATT  
GCTTGAGTCCAGGAAATCAAGACCAGCCTGGGTAACATAGTGACACCCAGTCTCCANNNN  
>295

NCGCCTGTGGGAGGACGTCCGGGTGGGCGGAACTCCTAGCGGACACCTCGTGGA  
GTCCGGCCGGAAGAGCAACCGAGATGAAGGTGAAGATGCTGAGCCGGAATCCGGACAATT  
ATGTCCGCGAAACCAAGTTGGACTTACAGAGAGTTCCAAGAACTATGATCCTGCTTTACAT  
CCTTTTGAGGTCCCACGAGAATATATAAGAGCTTTAAATGCTACCAAACCTGGAACGAGTATTT  
GCAAAACCATTCCTTGCTTCGCTGGATGGTCACCGTGATGGAGTCAATTGCTTGGCAAAGCA  
TCCAGAGAAGCTGGCTACTGTCCTTTCTGGGGCGTGATGGAGAGGTTAGAATTTGGAAT  
CTAACTCAGCGGAATTGTATCCGTACAATAACAAGCACATGAAGGCTTTGTACGAGGAATATG  
TACTCGCTTTTGTGGGACTTCTTTTTCTACTGTTGGTGATGACAAAACCTGTGAAGCAGTGGAA  
AATGGATGGGCCAGGCTATGGAGACGAGGAAGAGCCATTACATACAATATTAGGAAAGACA  
GTGTATACTGGGATTGATCATCACTGGAAAGAAGCTGTTTTGCCACATGTGGACAGCAAGT  
AGACATTTGGGATGAACAAAGAACTAATCCTATATGTTCAATGACCTGGGGATTGACAGTAT  
AAGTAGTGTAAATTTAACCCAATTGAGACATTTCTCTTGGGAAGTTGTGCATCTGACAGGAA  
TATAGTACTGTACGATATGAGGCAAGCTACTCCTTTGAAAAAGGTTATCTTAGATATGGAAC  
AAATACAATCTGTTGGAACCCCTATGGAAGCTTTTCAATTTTACAGCAGCAAATGAAGATTATAA  
CTTATATACTTTTGATATGCGTGCACCTGGACACTCCTGTAATGGTCCATATGGATCATGTATC  
TGCAGTGCTTGATGTGGATTACTCTCCCACTGGGAAGGAGTTTGTGTCTGCTAGTTTCGATA  
AATCTATTGCAATCTTTCTGTAGACAAAAGTCGAAGCAGGGAGGTATATCATACAAAGAGAA  
TGCAACATGTTATCTGTGTAAAATGGACTTCTGACAGCAAGTATATTATGTGTGGATCTGATG  
AAATGAACATTCGCCTGTGGAAAGCTAATGCTTCTGAAAAATTGGGTGTGCTTACATCACGA  
GAAAAAGCAGCCAAGGATTATAACCAGAAATTGAAGGAGAAATTTACGCATTATCCTCATATA  
AAACGTATAGCTCGTCATCGACATCTACCAAATCTATCTATAGCCAGATTCAGGAACAGCG  
CATCATGAAAGAAGCTCGTCGACGAAAGGAAGTGAATCGTATTAAACACAGCAAGCCTGGAT  
CTGTGCCACTTGTGTGAGAGAAGAAGAAACACGTAGTGGCAGTTGTAAATAATTGGTATTCT  
CTAACAATCCTGATGTATAATTATTTGTTACTTTTGATTTGAGAACTCTACAAATAAAGTGCT  
GGGACTAGATTAATTGCAAACATTTTAGTTATATGTGTAGAGCTTTATTGTTACTCCTTTAGC  
TACCCTGAAAAATGATCCTTAAAGGTGGCCTAGTTGGTAAGACTGTTTTATCCTTAATCTGCA  
TTCTTCTTTTATTGTAGAATACAGTATTTGCAACTCATTTTTCTTGTTTTATTACAGATATAC  
TTACTTTCTCTTTGATCTATTATTGTAGACACTATACATTCAAATTGACATTTAAGACCAAACAT  
CTCTTATGTTATCTTTAATATTACTTTGAATAATGATTGCAATGATGTTTCTTCTGTGATTCCA  
CATAACATTTAGAATAATGATGTCAATTTTTACAACCTGAATTTATTTCTAGTGCTTTACTTATA  
TTTGGCTTTTGACTCTTTTAAACAATCAGCCTGCATTTATATAACTTTTATAAATAATAATAT  
AATTGGGTCAAGTTAAGATATTAAGAGTTCCCTTTCAGCANNNNNNNNNNNNNNNNNNNNN  
NNN  
>296

GCGGCCGCCCCGGGCAGGTACGCGGGGCTCCCTTGTGAGTAGACTATGCAAAGAAA  
AAGTGGGCCACCATATCTGGAACCTACAGTCTATGCTTTGAAGCGCAAAAGGGAATAACAT  
TTAAAGACTCCCCGGGGACCTGGAGGATGGACTTTTCCATGGTGGCCGGAGCAGCAGCTT  
ACAATGAAAAATCAGAGACTGGTGCTCTTGGAGAAAACCTATAGTTGGCAAATTTCCATTAAAC  
ACAATGACTTCAAAATTTTAAAAATAATGAGCGTCAGCTGTGTGAAGTCCTCCAGAATAAGT  
TTGGCTGTATCTCTACCCTGGTCTCTCCAGTTCAGGAAGGCAACAGCAAATCTCTGCCAGTG  
TTAACAAAAATGCTGACTCCTAGGATAGAGTTATCAGTGTGGAAAGATGACCTCACCACACA  
TGCTGTTGATGCTGTGGTGAATGCAGCCAATGAAGATCTTCTGCATGGGGGAGGCCTGGCC  
CTGGCCCTGGTAAAAGCTGGTGGATTTGAAATCCAAGAAGAGAGCAAACAGTTTGTTGCCAG  
ATATGGTAAAGTGTGAGCTGGTGAGATAGCTGTCACGGGAGCAGGGAGGCTTCCCTGCAA  
CAGATCATCCATGCTGTTGGGCCTCGGTGGATGGAATGGGATAAACAGGGATGN  
>297

GTGGCGGCCGCCCGGGCAGGTACGCGGGGGGAGGGCTCCGAAGTCTGGTTTTGG  
GCGGGAATTGAAACCGCCGCTGAAGCCAACAAGAAATTTGAGAAGTGTAAATACCAAGCCTTG  
AAAGGGACCATGGTGCGGCCTGTGAGACATAAGAAACAGTCAATTACTCACAGTTTGACCA  
CTCTGACAGTGATGATGATTTTGTCTGCAACTGTACCTTTAAACAAGAAATCCAGAACAGC  
ACCAAAGGAGTTAAACAAGATAAACCAAAACCTAAGTTGAACAATCTCCGGAAGAAGAAAT  
CCCAGTACAAGAGAAAAACCCCTAAAAAAGGATGGCTTTAGATGACAAGCTCTACCAGAGAG  
ACTTAGAAGTTGCACTAGCTTTATCAGTGAAGGAACCTCCAACAGTCACCACTAATGTGCAG

### Table 4

**>298**

**>299**

NNACTATAGTGAATTTGGCCCTCGAGGCCAAGAATTCGGCACGAGGCTTAAATGTCT  
 GACTTCAGAATTGCATACGCCATCTGTTTTATTGACCCAACACAGTTTTAAATATTTTCATCCC

Table 4

TATTTTGTCCACGTGTTGAGATCATTGCTACAATGAAAAAGAAGGGTGAGAAGAGATGTCTG  
 AATCCAGAATCGAAGGCCATCAAGAATTTACTGAAAGCAGTTAGCAAGGAAAGGTAGGTTTG  
 CTGTTGCCTGCAGAAGAATTGCTCTTTAGGAAACGGCAATCTTGGGAGTCAGAAATACTTGC  
 ATTGTGGTTTGCTGTGCAATCGCTGGTTTAAAAGTATGTTACCACCACGCCCTCCCCTACCT  
 CCATTTATTTAAATGCTGAGGCACCATCTTGTGTGATAAGTATCAGAAGTTACCCTGATTACC  
 AGTCAACCTTGAAGTACAGTTATAACGATCTAAGCAAACTGACAACATTTTCCCAAGTCT  
 >301

ACGCGGGGGGGACGTAAGGTGGGGCGGTGAAAGAAGTTTGCTGACGAAGATGGC  
 GACTGAGGCACAGAGTGAAGGGGAGGTGCCAGCCCGCAATCCGGCCGGAGTGATGCCAT  
 CTGCAGTTTTGTGATCTGCAATGATTCTTCCCTTCGAGGTCAGCCATTATCTTTAATCCTGA  
 CTTTTTGTGGAGAACTCCGACATGAGAAACCTGAGATTTTCACTGAGTTGGTGGTCAGCA  
 ATATCACAAGGCTCATCGATTTACCTGGAAGTGAAGTTGGCTCAGCTGATGGGGGAAGTGGA  
 CCTTAAGTTGCCTGGCGGGGCTGGCCCAGCATCAGGATTCTTCCGGTCTCTCATGTCTCTC  
 AAGCGAAAGGAAAAAGGAGTGATTTTGGGTCCCCACTGACGGAGGAAGGCATTGCCAGAG  
 TATACCAAGTGATTGAGTATCTACACAAAACCTTGGCAGTAGAGGGTTTGTTTAGAGTACCG  
 GGTAATAGTGTCCGACAGCAGATTTTAAAGGATGCTCTCAATAATGGAAGTACATTGACTT  
 GGAATCAGGGGAATTTCACTCAAATGATGTTGCCACTTTGCTGAAGATGTTTCTAGGAGAGT  
 TGCCGGAGCCTCTGCTGACACATAAACACTTCAATGCACACCTCAAAATCGCTGATTTGATG  
 CAGTTTGATGATAAAGGAAACAAGACCAATATACCAGACAAGGACCGGCAAATTGAGGCTCT  
 CCAGTTGCTCTTCTCATTCTCCCTCCTCCTAATCGTAATTTGCTGAAGTTATTGCTTGATCT  
 CCTATACCAGACAGCAAAGAAACAAGACAAGAACAAGATGTCAGCCTATAACCTTGCCCTTA  
 TGTTTGCACCCACGTCCTGTGGCCAAAAAATGTCAGTGCAAATGACCTTCAGGAGAATATC  
 ACAAAGTTAAACAGTGGGATGGCTTTTATGATTAACACTCCCAGAACTTTTTAAGGCTCCT  
 GCTTATATTCGGGAGTGTGCGAGATTGCACTATTTGGGATCCAGAAGTCAAGGCATCAAAGGA  
 TGACCTTGACCTCATAGCTTCATGTCATACCTAAGTCCCTTTCAGCTGGCAAAGTCTCAGAAACG  
 GAACCGGGTAGATTCTGCTGCCCTCACCAGGAGGAGACCCAGCACCATACGGAAGAGGCAC  
 GAGAGAGCTGTTTCAACACGTTTATGATATGCCAGAGTCAGCAAAGAAGAAACAACCTTATTA  
 GACAGTTTAAATAAGCAATCATTGACCCAGACACCAGGGCGAGAACCTTCTACTTCCCAGGTA  
 CAAAAGAGGGCTCGTTCGCGCTCCTTCAGTGGGCTTATTAAGCGGAAGGTCTGGGAAATC  
 AGATGATGTCAGAAAAGAAAAAGAAAGAACTTACTCCAGAATCTGTGGCCATTGGTGAATTG  
 AAGGGAACCCAGCAAAGAAAAATAGGAACCTTATTATTTTCTGGCTCTCCAGCTGTACAGTAC  
 ACCAACAAGATTGAAGTGGTCTGAAGGGAAGAAAGAGGGGAAAAAAGGATTTCTCTGAAGG  
 ATCCAGAGTTGTCTCCTATGGTCCATGCAGAATTTTCTGTTTGTGGGCGAGGTGTTATTCCTG  
 CCCACAGCAAAGCTTGGAAGTTCGAGCTTGTGCTGCTGCAATTTGAATTGTCAAAGCCAACTAA  
 TACCGTGACCCGACTGATACCTCTAACCCCACTGATGATGTTTGAAGCTGTGCCTT  
 CTGAGAGAGTGCTTAGGCCCTGTCTCTCTTTTAAATATTATGGGGAACCACTAACTATCCA  
 ACCAGCTTATACAGCACACTAAGGTGGGCTTCAGTGCTCACTCAATGTGTTTAGGCAGATTCT  
 CACTTTTGAATAAATATGAAATGTGTGCTCAACTGCCAGTAATTTTTTAAAGCACTGTCC  
 CAGTGGATTGATGTTGTTTTAATGGATATTTTGGGTTTTTCTCTGTTTTGATAGTATTGGGTA  
 TTTGGTTGTTTTGTTTGTATTCTTTGTTTTAAAGCCATGTTTTGGTTGGGCTCTAAGCT  
 AGATATCTTTCCCTCTTTTCACTTTGAGCTTTGGGAAAACTCTTTATCTTATGAGGCTGTATT  
 CCTCAATACCTAATTTGTGTCCAAAGATTTATAGCTCTTCTGGACATTTTTTATTATTTCTTG  
 GGTGTGACATCAGAGTATTTGACCTGCAGTATTGAAAAAGGAGAATTCAGAATGATACAGTA  
 TTTTAAACAATCTTAATTATTAACCTCTTTTCTTCTCCTTCCATTCTCCCTCCCTGTCCATCTC  
 TCTCTCTTTCCCTTCTCAGTGATGTGAAAATAATTGTGTTTTGCTGAAGTTGTTATCTTC  
 ATTCAATTTCTCTTGACTAAAACATCTCTGGTGCCAACGTAATACTTCTGAACCACATCACT  
 GTGACTCAAGGAAAGTCACTGACAGCATAAGAGAAGTTTGCTAAAATATTTGTATGTGGGGG  
 AAGCTCTGGAGTGTGCCTAGGAGGGGGGCTGGCTGCCTTTATGTCCAGGATGACTCTTTAT  
 GGGTGGGATTACATTGCACCCTCTGAGGGTGCAGGCTAGACCGTCTCCTGAGAGGAAGTTA  
 GGATCAGAAAGAAGAAGCAAGCAGCAGCTCTGAGGGGCTGACAGGATTTAAAGGAGAGAA  
 TGTCTTATTTGGAAGCAGCTGTGGCTGTCAACCAATGTTCAAGGAGTGTTACTGTTCCGCC  
 CTCTCTTTGTCAGAAGGGACACAGGTGGTAATTTGGAGATGGGGCCAGAGCTTCTGGCTTTT  
 GGATTTGGTGTGTTCACTTGTGTTGGATAGAGCAGTGGCATGGCTTTGACCTAGTATGAACT  
 GGTGTCTGCCAGAGAGCAGCATGTAGCAGGGGGGAATGCTCAGGTTTGTGCCTGGCTCT  
 GTGGAGCTGTACAACCTTCTCACCCTGTGGGTTGGAGCCGAGTCAGGCCACTATGGGGAA  
 GCAGTTGCCCCACAAAATGTGGTTTGTGACCTATTTCTAACTGTTGAATATGCTGCACCAT



Table 4

TGCTGAAATGAAAGATGACTCTGGGGGAGCAGAGCTTGGCCTTGTGCCCAGCTGGCAGCCC  
CCTCTGCCAGCCTTTCTGCTGCTTTTCTGCTGTAAACAGCAATAGTGGAGAAAAATGTAAAT  
TTGGTCTTCCAGCTTAATGCAGTGTGAACAATAGATGGTTAGGAAAAACAACTGCTTAGAA  
GCCCCCTTCTCTAGAGCAGTTTTATGTCATTTGTAAAAACACATATTAGCAAATTCGTTGCGG  
TAGGTTTCTATTCAATATTTGACTTTTTTTTTCTTATTAAGAAAATGAAATCCCTTACACCAGAT  
ATCAGTTAATTCAAACAGAAAACCCCTTGGGTATCANNNNN

&gt;302

&gt;303

&gt;304

&gt;305

CGACCCACGCGTCCGCGCGAATCCGTGCGGGAACCTGTCTTCTGTCTTTACCCAGA  
GCTACCATGAGCAAGCGGAACCGGTATCGTACGTGCGGCCAGCCGAGCCGGCTTTCTG  
GCCCCGCTTCAAGGAACGGGTCCGGCTACAGGGAGGGACCCACCGTAGAGACTAAGAGAATT  
CAGCCTCAGCCCCCAGATGAAGATGGGGATCACAGTGACAAAGAAGATGAACAGCCTCAAG  
TGGTGGTTTTAAAAAGGGAGACCTGTCAAGTTGAAGAAGTCATGAAAATTAAGCAGAAATA  
AAGGCTGCCAAAGCAGATGAAGAACCACTCCAGCCGATGGAAGAATCATATATCGAAAAACC  
AGTCAAGCATCCCTCAGATGAAAAATATTCAGGTTTAAACAGCAAGCTCAAAAAAGAAGAAGC  
CAAATGAAGATGAAGTAAATCAGGACTCGGTCAAAAAGAACTCACAAAAACAAATTAATAA  
GTAGCCTCCTTTCTTTTACAACGAAGATGAAAATGAGTAAGTGTAATATTTTGAATTTAGTC  
TACTTTGAAAGTATATGGAGTGTTCAATTAATACATTTTTTCCCTATTATAAAGATACTACAA  
GTTCTTTATAGAAAGTTTAGGAAATAGAGAAAAAATTTAATAAACTACATCTATTCATCAATA  
CCCCTCTGACTTAAAATGCCAACTCTATAGAAATTAGCTAGTATTAACATTTTGTATTTCCCT  
TGTGTGGTTGTATATATATGTAAATTATTTTTAAGCAAAATACATTTTTTGTGTGTAACAAA  
ATTTTATAAATACAACGTATTGCAAATGTTCTTTGTCCTGCTTCTCACTTGACATTGCATTAT  
GAGTATTCTTCCAGGTCAAGTAAATTTCAAAAACCTGACATTAATAGCTACAGATAATTTCAATA  
ACATCTCATTGTATCTTTTTCAATAGCAATAGCTCCACTTTGGGTGGGGGAGATGATAATGTG  
CCTTGTTAAAAATACCTCCCCAACTCCTGCTAAGGGTGGCCATGAGACTCAGCTCTGGCAAG  
TTAAGAAATACAGGTGGAATTCTGCTTGATAAAGCTGCTGGGTTTTTTGTTACAAAAGGACAG  
ACTTGGCAAACATGAGCCTTTGCTCTTATCTTTTCATCCTACTTGGAGTGCAGAGATAAAACC  
TGAGTACCTGCCGGGCGACCGCCACCGCGTGGAGCTCCAA

&gt;306

NNGGAGCTCCCCGCGGTGGCGGCTCGAGTACGCGGGGAGGCAGCGGAAAGCTCA  
GCCCATGTGAGGTGCCTCCTGCCAATCACAGACTACCCTTCCCTGGTCTGGAGGTTCAAA  
GAATTGCAGGAGGGTAGAAAAGCACCTGGGTGCGGTGCAGACTGCGGAGCGGGCCCTACC  
GTGTGCGCAGAAAAGAGGCGCTTGCCTTCAGCTTGTGGAAATCCCGAAGATGGCCAAA  
GACAACTCAACTGTTGCTTCCAGGGCCTGCTGATTTTTGGAAATGTGATTATTGGTTGT  
TGCGGCATTGCCCTGACTGCGGAGTGCATCTTCTTTGTATCTGACCAACACAGCCTCTACCC  
ACTGCTTGAAGCCACCGACAACGATGACATCTATGGGGCTGCCTGGATCGGCATATTTGTG  
GGCATCTGCCTCTTCTGCCTGTCTGTTCTAGGCATTGTAGGCATCATGAAGTCCAGCAGGAA  
AATTCTTCTGGCGTATTTTCATTCTGATGTTTATGATATATGCCTTTGAAGTGGCATCTTGTATC  
ACAGCAGCAACACAACGAGACTTTTTACACCCAACTCTTCTGAAGCAGATGCTAGAGAG  
GTACCTCGCCCGGCGGCGCTCGACCGCCCGGCGAGGTACGCGGGGATAGTTCACTCACT  
TTCAAAGCCAGCTGAAGGAAAGAGGAAGTGCTAGAGAGAGCCCCCTTCAGTGTGCTTCTGA  
CTTTTACGGACTTGGCTTGTAGAAAGGCTGAAAGATGATGGCAGGAATGAAAATCCAGCTTG  
TATGCATGCTACTCCTGGCTTTCAGCTCCTGGAGTCTGTGCTCAGATTCAGAAGAGGAAATG  
AAAGCATTAGAAGCAGATTTCTTGACCAATATGCATACATCAAAGATTAGTAAAGCACATGTT  
CCCTCTTGGAAGATGACTCTGCTAAATGTTTGCAGTCTTGTAAATAATTTGAACAGCCCAGCT  
GAGGAAACAGGAGAAAGTTCATGAAGAGGAGCTTGTGCAAGAAGGAACTTCCCTACTGCTTT  
AGATGGCTTTAGCTTGAAGCAATGTTGACAATATACCAGCTCCACAAAATCTGTACAGCA  
GGGCTTTTCAACACTGGGAGTTAATCCAGGAAGATATTCTTGATACTGGAATGACAAAAAT  
GGAAAGGAAGAAGTCATAAAGAGAAAAATTCCTTATATTCTGAAACGGCAGCTGTATGAGAA  
TAAACCCAGAAGACCCTACATACTCAAAGAGATTCTTACTATTACTGAGAGAATAAATCATT  
TATTTACATGTGATTGTGATTCATCATCCCTTAATTAATATCAAATATATTTGTGTGAAAATG  
TGACAAACACACTTATCTGTCTTCTACAATGTGGTTTATTGAATGTGATTTTCTGCACTA  
ATATAAATTAGCAATAGTGTTTTCAATAAATCTAAATCTTCAGCATGATGTGTTGTGTATAAT  
TGGAGTAGATATTAATTAAGTCACCTGTATAATGTTTGTAAATTTTGAACATATCTTGAGT

Table 4

TGTTTAAACAGTCAAAATGTTTGATATTTTATACCAGCTTATGAGCTCAAAGTACCTCGGCCG  
CCACCGCGGTGAGCTCCAANNNN

>307

NNCTGTCCATCAAGAGTCCAAATTCCTGGTTTGAGTTTTAGGAAATGTGCACAGAG  
GGAGTAACGTCATGCGCAAGGTACCCAGAGTGTGTAATCTTAGGTAAGCCATCCCAGCATT  
TCTGCACATGTTGATAGGGAACTGAAGACTGTTTGGACTTGCTCGATCTTGCCACCTTCTC  
CAACCCTCACGCAGAGATTCCAATCAAAAGTCCAGCTCTGTGCCATGTGCCAATTGTCTCG  
GAATGTGGTCATACCTCTGGTGGTGCTTTAGAAATATCAGTGCCAACAGTATGACAGGGATA  
GTCAGCATACAGAAGATCTCTGGAAGTATAAGGGAATCTTGAATGAAGGAGAGCTGGCCTTC  
AGCATGGTTTCCAAGGTCTATATATGAGGTCTACTGGGAACACTTCCATACCCAAACCCCTC  
TGAATGCCATAAACACATTATGAAGTCCTTTACTGTCACGAATTTGAAACTCCAGGATGGTC  
CAGTTCATAAGTTACTTCCTTGAAATCAAACCTGGATTCAAGTCTTTAAGAACGTCAATCAAG  
ACTTCTACATTGCCATGTGTGTGCTGTGCTCCATCACTTTTATCTTTCCCATCACTCCAGA  
TCCCACTGCCCCGAGCAGAAATACTCTGTAATGGAATGCCATACTGTTAACCTGAATGAGT  
TCGAGCCATCATTCCCAAAACCCCTTGCAACCTGGGCAGCTGTGACCTCCCGAACACCAACG  
TGCACGATTATATTGCGACATTCTTCAATACTTGCACAAAAGCCATAGCCTACGTTCTTGCT  
GAAATCAGCCAAAGAGCTCTCCATCATGGTTTGTAGCTACCCCTCCGGAATCAGGCAGGATCC  
TGCTCATAGAATGTCCCGTTTTTTCAGGGTATAAAAGTGGTGCGAGCACCACGGGACAGCGT  
TCTTGGGGAAAATCTCTGCGCAGCGCTTAAAGAAAAGCGTCTATCTGTTCTTGTCCAATCG  
AAAGGCTCCCTTCTGCCCAAAGAGGAGATGGGAGAGGAGGAGGTGTAGGACCTCTATTGCT  
ATATCTTGGAAAGCCACCTTCTTGATTTCCACTGACGTCTGCGTCAATGTAAGAACGCAGAAG  
ATCTGGAAGCTTCTGTTTGATAAACTGGGCAGCGAAACCTCTAAGATCTGAGCTGGAAGAAT  
TCAACAGGGCAAGGCCAAAAATACCTCTTGTACTTTGCTTAATTTGAGCACTTTACTCAGT  
GGGCAATAAGTGGGGTGACGGCTTTAACTCTTCTGATAGTGCAATGGATTATCAATGGCA  
TAGGACAGCGTCGAGATAAAATTTGGCTTTGTAAATCAGCAACGCACACTCCTGAATCAGAAA  
CTGAGTCTGATGGAATCTTTGCCACTGCTTTTACCATCGCCACTGAAATCCACATGCGAAA  
ATAGGCAGCGTAATAAATGCCTGTCTGCCTCAGGACCGTGCCGATTACAATATGCTGTATT  
TCCTGTGGCTGGCTCGGTAATTTTCTTGTTAAATGTCCACCAGGTAGCTGATTTGAGA  
CAAGGCCAGCGAGAGCGAGTCAAGATTCTTGTGGTTGGGGCGGAAGCAGCGCGGCCGAG  
CCCGGCGCAAAATCACCATTATTCCCCTTTAGTCACCTCAGAGGCAGGTTAATGCTTTCTTT  
GTAATTAGGCTATATCTGGTATCTGTATAATATCTTCAGTTCCTTCTTACCAGGGGTCTTACTC  
TGTTCTGAAACATGGCACCTCAGGCGGCTCCGGCAGCGCTGGACACAGGAAACTCCTGGGT  
CCCCGACTCCGGCTCTCCTCGACCCCTCTCGGTTAACTCCGCTTGTCTCTACAAAATG  
GCGCCCGCGCGTACCTCGGCCGCCACCGCGGTGAGCTCCAA

>308

>309

ATAGGGAGTCGACCCACGCGTCCGAAAGCACTTGAAAGGAAACAAGACTCCCTTTC  
ACACATGGATTATTATAAGTTTCAATCCTGGTATCTGTGCTTGATTTTATCAGTTTTGTGTAG  
ATTTTTATGTTTCATATTTTAAATTTAAATCCACATTGTAAAGTTTGTACAATTTGTCCTGAAG  
CTTTGTGTTTGGCTGCACCTGCATAAGCTGCTACAAATAGAATAAAGAATTTTCATAGCCTGTA  
TCTATCATTTAGATGCATGGAAAAAATGGGCTTTGCACACAATGGGTTTGGAGCTGACTGG  
GAACAATGGAAAAAATTACATTAGCTGTGGTTGTAAAGTTTTTTTGTGTTTTGTTTTTTT  
TTCTTTTTCTGTCTCTTATTTTACCATCTTGTGAAAGGTTTCTGAAACTCGATAATAAAAAAG  
CGGTTGGTGTAATTTATTCTTTTGTGTCACATTTTGTAGAGGAAAAACATAAAAGAATGTATCC  
TGTACTGGTTCTTAAACAGCCCATAAAAACCCATTGGCCTGAAGCTTATATCTCAGGCCTA  
TGCCCATCTTATAGTCTTGGAAAGACAAAAGGCTGGTAGAGACAGTCTTCAGTGGCTTCAGTG  
ATGCTCTGTAGAGGCCAGGGTGTCTTGAGTGCTGTAACCTCCCAAGCACTGGGCTAGCCTGA  
CTTCTGTATCTCCCTACCACCACCCCTTAAAAAATAAGGTAACAGCAAACTATAGTAAAA  
CCATGTCTGCATAGAACGTGTTCAAATCCTCTGTTTTTCAATTAATGTAAAGATGCTGTCTCC  
ATTAAGTTGAATATTTGGAATTGGAGAAGCCATTGATTATTATTTTGAAGTTTCTGTAATGTTTT  
ATAGAAAAGTAAGATGCTTATTGAGAAATTAAGAATGAAGGCAACTGAAATATGCATTGTTGT  
AGTTATTTATATTTCAAATAAAAAATAAGCAAAAAAAGGCTGGTTTGAAGAAAATCAGGTA  
AAATTGATGAAACGGATGTTGTGTTTCTTTCCATCATCTGGTTTTTACCATTTCACTCAGTA  
GGTATTTTTAGAACACACTTATTTGAGGAAAGAGACATCAGATGCACAATTTTACATTTATAAA  
GGAACAAATGGGGAAAACTGAAACTAAAAATTTTAAATGTATTAAATGCCATCCCTGAGCCT  
AAATCTAGTATTTGTAGTTTATTTCTAGGTCTGCTAGAACCTGAAAACCTGAATGAAAAAAGG

**>312**

**>313**

Page 93 of 355

>314  
 NGGAGCTCCACCGCGGTGGNCGGTGCGAGGTACGCGGGGGGTCTCTGGAGGTTCAA  
 AGAATTGCAGGAGGGTTTAAAGCACCTGGGTGCGGTGCAGACTGCGGAGCGGGCCCTACC  
 GTGTGCGCAGAAAGAGGAGCGCTCAGGAATGCATGAATTGATTAAATGTCGAGAGC  
 TGTAGATGGCTTTTCTCAAGGTGCTTCAAGTGCGAGAAGCCCAAGTGATTGACCCACACACTT  
 ACCTTTGTGTTCTTCCAGAAAATCCTCAGGGAGTGCCTTCAGCTTGTGGGAAATCCCGAAG  
 ATGGCCAAAGACAACCTCAACTGTTGCTTGCCTCCAGGGCCTGCTGATTTTTGGAAATGTGAT  
 TATTGGTTGTGCGGCATTGCCCTGAGTGCAGGAGTGCATCTTCTTTGTATCTGACCAACACA  
 GCCTCTACCCACTGCTTTGAAGCCACCGACAACGATGACATCTATGGGGCTGCCTGGATCGG  
 CATATTTGTGGGCATCTGCCTCTTCTGCCTGTCTGTTCTAGGCATTGTAGGCATCATGAAGT  
 CCAGCAGGAAAATTCTTCTGGCGTATTTCAATTCTGATGTTTATAGTATATGCCTTTGAAGTGG  
 CATCTTGATCACAGCAGCAACACAACGAGACTTTTTACACCCAACCTCTTCTGAAGCAG  
 ATGCTAGAGAGGT  
 >315

Page 94 of 355

Table 4

CAATGTAAGGAGGATAAAAACTTGCATACCAATTGTACACCCTTGCAAAATCTTTCTCTGATG  
TTGGAGAAAATGGGCCAGTGAGATCATGGATATAGAAGTACAGTCAATGTTGAGCTGTACCC  
TCCCACAATCCCACCTTCCTTCTCAACACAATTCAAACAAATAGACTCAGACTGTTTCAGGCT  
CCAGGACAGGAAGTGCAGTGTAGGCAAAATTGCAAAATGAGGGCACAGGGGTGGAGGT  
GGGGGGGTTGAATAACAAGCTGTGCTAAATAATTACGTGTAATATATTTTTTCATTTTTAAAA  
ATTGATTTCTTTTGACATTCCATTGACAATATATGTCACATTTTTAAAAATAAATGCAAAGAAGC  
ATACATCCAAGCCAAAAAATAAATTCCTGCGGCCGCAAGGGANNNNNNNNNNNNNNNNN  
NNNNNNNNNNNNNNNNNNNNNNNNNNNN

&gt;316

cgtcgcacataTTTGTGGAGTGCCTATTACGTGCCAGAAGCTGTTCTGGACACTGAGAA  
ACAGGGATGAAGAAGAAACAGATCCAAGCCTTCCTGAGAGTAACCTCCCCAGGTTTCATGG  
ATGAGGAAAATGAAGGTCGTCTGACTCAGGCTCATGGCTCCGACCCCGGCTTCTGTGGTT  
GGAGGGCAGCACCTTACTTAGACTCCCAGCGCACGTGGAGCAGTCTGCCGGTCCGTTGTCT  
GGCTGCGCGCGCCACCCGGGCTCTCCAGTGCCCCGCTGGCTCGGCATCCACCCCCAG  
CCCCGACTCACAGTGGGTCCCGCACGTCCGCCGGCCCCCCCCGCTGACGTGAGCATAGC  
TGTTCCACTTAAGGCCCTCCCGCGCCAGCTCAGAGTGCTGCAGCCGCTGCCGCCGATT  
CGGGATCTCATTGCCACGCGCCCCGACGACCGCCGACGTGCATTCCCGATTCTTTTGG  
TTCCAAGTCCAATATGGCAACTCTAAAGGATCAGCTGATTTATAATCTTCTAAAGGAAGAACA  
GACCCCCCAGAATAAGATTACAGTTGTTGGGGTGGTGCTGTTGGCATGGCCTGTGCCATC  
AGTATCTTAATGAAGGACTTGGCAGATGAACCTGCTCTTGTGATGTCATCGAAGACAAATTG  
AAGGGAGAGATGATGGATCTCCAACATGGCAGCCTTTTCTTAGAACACCAAAGATTGTCTC  
TGGCAAAGACTATAATGTAAGTGAACCTCCAAGCTGGTCATTATCACGGCTGGGGCACGTC  
AGCAAGAGGGAGAAAGCCGTCTTAATTTGGTCCAGCGTAACGTGAACATCTTTAAATTCATC  
ATTCTAATGTTGTAATAACAGCCCGAAGTGAAGTTGCTTATTGTTTCAAATCCAGTGGAT  
ATCTTGACCTACGTGGCTTGAAGATAAGTGGTTTTCCAAAAACCGTGTTATTGGAAGTGG  
TTGCAATCTGGATTGAGCCCGATTCCGTTACCTGATGGGGGAAAGGCTGGGAGTTCCACCA  
TTAAGCTGTGATGGGTGGGTCTTGGGGAACATGGAGATTCCAGTGTGCCTGTATGGAGTG  
GAATGAATGTTGCTGGTGTCTCTGAAGACTCTGCACCCAGATTTAGGGACTGATAAGAT  
AAGGAACAGTGGAAGAGGTTCAACAAGCAGGTGGTTGAGAGTGCTTATGAGGTGATCAAAC  
TCAAAGGCTACACATCCTGGGCTATTGGACTCTCTGTAGCAGATTGGCAGAGAGTAAATG  
AAGAATCTTAGGCGGGTGACCCAGTTTCCACCATGATTAAAGGGTCTTTACGGAATAAAGGA  
TGATGTCTTCTTAGTGTTCTTGCATTTTGGGACAGAATGGAATCTCAGACCTTGTAAGGT  
GACTCTGACTTCTGAGGAAGAGGCCGTTTGAAGAAGAGTGACAGATACACTTTGGGGGATC  
CAAAAGGAGCTGCAATTTTAAAGTCTTCTGATGTCATATCATTTCACTGTCTAGGCTACAACA  
GGATTCTAGGTGGAGGTTGTGCATGTTGTCTTTTATCTGATCTGTGATTAAGCAGTAATA  
TTTTAAGATGGACTGGGAAAAACATCAACTCCTGAAGTTAGAAATAAGAATGGTTTGTAAAT  
CCACAGCTATATCCTGATGCTGGATGGTATTAATCTTGTGTAGTCTTCAACTGGTTAGTGTGA  
AATAGTTCTGCCACCTCTGACGCACCACTGCCAATGCTGTACGTACTGCATTGCCCCCTTGA  
GCCAGGTGGATGTTTACCGTGTGTTATATAACTTCTGGCTCCTTCACTGAACATGCCTAGT  
CCAACATTTTTCCAGTGAGTCACATCCTGGGATCCAGTGATAAATCCAATATCATGTCTT  
GTGCATAATTCTTCAAAGGATCTTATTTGTGAAGTATATCAGTAGTGTACATTACCATATAA  
TGTAATAAGATCTACATACAAACAATGCAACCAACTATCCAAGTGTTATACCAACTAAACCC  
CCAATAAACCTTGAACAGTGAAAAAATAAATAAATAAATAAATAAATAAATAAATAAATAA  
gttaacaatggggggcgcgagtgagaacgggcaaggccagagagacgggcccgaagggggttccccaaaaacggg  
gccggtccgaaacagggtcggtcggaac

&gt;317

NNCAAGCATTGTTGTGGTGGTCTGTCCCCTCCCCCTCGTGTTATCTCTATTCCGGG  
CCCTCTCAACCCATGTTTTAAACGGACCACCGTTGGGGTTTTTGGCCCGCGCGAGGGGGAA  
CATGTAACAAGGGGAATCCCAATCCTCCGGAAGTTTCCGCAGGACCTTGTGTCTGTTCCC  
AAGACGTTCAAATGGCGCTGTGGACCTTAGGGAGAACCTAAAGGCTCAACTCGTTTCTTAT  
CTGTTCTGTTCTGCTAAATCTTTTCTAAGATCAATGGTTTCTTCCCTAATCTTCCCTTTC  
CTTTTGAAGTTTTAATCTTTTCTTGTACTTTTGTGTTTTGATCCAAATTTGCTTCTTATG  
TTCTCTGTCTACTAGCTGATTCTGTACTTCTTTCTCTGTTCTTCTTCTCTATTAATTGGGCA  
ATACTTTTTTCAATTTGTTCTTGAAGTGAAGTCAATCAACTTTTTCACTGTCTCAATTTGTTTATT  
CAGAGAATCACATGTGATCTGTAATCTTTATTCTTCTTTTCACTACTTTCAATTTCTCTGAAGA  
AGTCCATGTAGGATTTGTGAGTATTTCAATGTTCTTTCAGCCACAGACTCTAACTTCTATTAT

Table 4

GTTGAAAGAGATGCTCAATATCACTCTGCGCTCTTTCTGATTCAACTTGCTGCGCCTTCAGCA  
ACACACTAAGCTCTTCATTTTTCTCTCAACTTCTCTCAACATACTAGCCAAGTGTCCGTGCC  
TCTGTTTCAGCTTGAGTTCTTTGACAGCGATGCTGAGCAATCAGTCTATCAGCCTGTGCAAG  
GGCTAGAGCTTTTGTTCAAAAGATCTTTGAGCCTGCTTTCTTTGGAAGCTAATGTGGATAG  
TTTCATTTTCATATACATCCATTATGTCAGATATTCTCACATCACAATCTGATCCTTAACCACC  
ATTCCAGACTGAAGTTTCTCTATTAATTCTTCAATATTCAATCCAGGAACACCATCTTTCAAAT  
GAGGAGTTAAACACTTTATTGATGTTGGAAAAGTGTGATTTGATGATTGCCAGGGCATTTTTTC  
TGGGTATATGTTCTGTTTCTGTTGTCTATAGGCATTGTTTGCTGCTATACTTTCTCCAAGTAC  
TAAAGCAGGAAAATCTGGCAGTGGAGCAGCCTCCCAATAATATTCCTCAGTCCAGACTGTAC  
TTGTTCTCTATTATCTGACGTTAAAGCAAAAGCCAAAGGAGTAATCAAACGTGGGTCTGAA  
GTATTTTGTAGAAGCTTACTTCCATACCAGGAACCAATGGTTTAAGTTTGTAAATCAAATCAA  
GAGTTTTCAAATACATCAGCAGCAAGTTTGCATAATTGAGAATCTGCAACCTTTGTTCCAA  
ATCCAGGTCAATCTTGCCATATGTAAATTGTTGTTCTATAAGAGTGGTACACTTGACAGTTG  
TCAAGATTTTGAATATGCATTTTGTGATCATCTCCACAGAGAGTTAACAAAACCTTCAAT  
GGCCTTGGCAATCCTTTACATTTTTCTTGTAAAGCCTCATCTAGATTTTGTCTGTGAAC  
TGAAGTTGATCAAGGATTGTAGGCAGCAGAAGGGTCACAAAACGATCAGCCGAGGAACAGT  
TAGCAGCATCTATGACATCCTCAAATATTTCTTGAACAACCTCCAATGCTAAAACAGAACAGT  
TTTCTGATCCGTCCAAAGGTTGGCTTAACCAGCGCAGTAGAGCCACAGTAGGTTCTAAACAT  
TATGATGGCTTCCAGAGTGGCGCTGCCAGGTGGAGACTGTTCAAACATCATCTGAGTGA  
GCATATGGCGCAGCTGAGTCACTGAACAGAAGGCCAAGAAGTAATTCTAAAACCTTTGAAGAG  
GAATCAGGATCCTTTCCATTAAGAAGACCTAATACTTGGTGAAGACATGAAGAAAAGTGCTC  
ATATCTGGTGAGATAATCAGCAATTTTAGGATTCTTAAGGAGATCCATCAGTAGGTCAACTGA  
ATACTTTCTAGTTAGAGTGCCATCACCGTTTATGAGAATATTAATATTAGTTGAAAAGTCTGA  
TGAATGTTTCGAGCATGGAATAGCTTTTCCCCACCTCTTCATTTAATGTCAAACCTGGATAAT  
ATTGAAAGTGCAAACACAACCACAGTTAAACTACTATGGGCCAACAAAGGTGATAAGAGTTCCG  
ATAAAAAGATTTACATTAATCAATGTCTTTATGTGCGTTTGAACAGAAAGATTGTGCCGACA  
AAGATTTGCCAATAATCCTAGACAAGGCATTTTAACTCATCTTCAGAAGATTGAATGTGATC  
TATCAGGAACGTAATTAATTCATCTATATTGGCACCAGAAATAGAAAATTTTGACATTATATGTT  
AACTTCTGTAGAAGTTGAATGCACCTGCAAAAACACCGAATCAGTGTGGCTGCTCCGACAAA  
CCACTCCCGCCAGCACACTATTGAGATTATATGTAATTCTGAAGACAATCTCTGGTTCCATGT  
CTACTGCTAGTTGAGACAGCAAACCGATAATACTTAAGATCAGTGAAGCACTTATGTTGGGG  
TCTTCAAGTAGCTCTACAAGGCAACTCAAGCATTCACTTGTTAATATCTGATTTGATGTAATA  
GTCGTGTGAGTTTCTGTCCAGAAATTACCTCCAGAGTGCCGCAAAAGCTGAGTGGCGTTCCG  
CCTCTGACTTCACCGGCTTTGTACTGACTGACAGTCAGGAGCAAGGACTTCAAGCAGGCAG  
TGGAGTCCATTGCACCGCGCGGCCGCTTAGGGACCACCACCGCCAGCGTGCGCC  
GGCCTTTAGCTTTGCGC

&gt;318

GCCGCCCGGGCAGGTACAAGGTTTGGTGATGTAGGCGATTTTTTTACCACATTCTGA  
ACAGTGATGGTCAGTCACTTTCTGTAGAGTAATCTGTGTGCATATTAACGCTCTAATTATATTTT  
AAAATCTTATTTTATATAGGATGTAATTGGAAAATCGATGAATCAAGCAATCTGTATTCCATTG  
TATAGAGATACCAGAAGTGAGGATTCTACACGTAGATTGTTCAAATTTCTTTTCTGTGGAAT  
AATAAACTTCAAATCTACATTATCTTCTTTTACTATTCTAGAAGATCCACTTTATAAAATGTG  
CATCTTAAGGAGACATACTGATATTTCTCAATCTGTGAGTAATGGACTAATTGCTATTAATTT  
GGGAGCTTTACATATGCCACAACAGAAAAAGTCAGAAGAAGCATCTACAGTTGTTTAGATGC  
ACAGTTTTATGATGATGAAACTGTAACAGTAGTTCTTAAAGACACTGTAGGACGTGAAGGAA  
GAGATAGACTCTTGGTCCAGCTGCCTTTGTCTTTAGTATATAACAGTGAAGATTCTGCAGAAT  
ATCAGTTCACTGGGACTTATTCTACAAGGCTAGATGAACAGTGTAGTGCTATTCCCACCCGT  
ACCACTGCTCATCACTGAATGACTTTATACATGCATAATAATGACCACCAGCAGCGCTCCCA  
GAATGAACCATAACAGAGAAAAGTTCATAGATCAAGGAATTTCTTTCAAGTCCAGATTTTGAG  
ATCTTTTCACTTCCACTATTGGTTTCAAGACAGATTCTTTCATCAACACCATCATCTTTGGAG  
AAATCGTTGCTCATCTGATCACTGTGACAACCTACCTTCATTTTCTGCTCCACTGTGAGTGCAA  
CTTTCACTGTGAGGAGATTTCTCATCTTCAACATCAATAAAAGTACCTCGGCCGCCACCGCG  
GGGAGCTCCAA

&gt;319

&gt;320

&gt;321

Table 4

&gt;322

&gt;323

&gt;324

NNACACATTGTAATATTATATCATGTATAGTTGTACGCAGCTCTGTGCATAACTGTGG  
TAACTTTGTGGGTCGCTCCTGTGGGTCCTGAAACAATGCAGTTCTCCCCGCGTATGCGACAT  
CCGGCTGATGGTCATGGAGATCCGCAATGCTTATGCTGTGTTATATGACATCATCCTGAAGA  
ACTTCGAGAAGCTCAAGAAGCCCAGGGGAGAAACAAAGGGAATGATCTATTGAGAGCCCTC  
TCTCCATTCTGTGATGAGTACTCTTCTGCACTGTTCTTTCTTTCTAATAAAACCTTTCTTTTC  
GAACCTATACTGTCTTCTGTAAATTCTTCTTACTACCCTATGACCCGTGAGCCAACCACTTTC  
CGATGCCAGGGTTCTGACACCTCACCTGGCATAATATAAAGTGTTTTTTTTTATACCCTTCC  
ACTTGAAAGACTACAGAGGAATCTTGCACTGCATAGTTCAAACCTAAAAAGAGAAGAGTTAAT  
TACCTGAAAAGCAAGAGAAAACAAGAAGGGGTAAATTTTGAACCAAGGGAAATCATTTAAGA  
AGTGCTGGTATTTTTCAAATTTCTGTCAGTTGTTACATTTGTCATAAGTAAATGTTTAGGAAT  
AAAGGATGGAGACATGCTTATTTTATTTAACTCCCCCAAAAAAAAAAAAAAAAAAAGTACCT  
GCCCCGGCGGCCGCCCGGGCGGCCGCTCN

&gt;325

NNCTCTGAAGATGATACCAAAATTCCTTTTGATAATTTTTTAAGTTTCCAGCTCTTCAC  
CGAAATGTTGTATTCTTATTTTCAGTGTTTCCTTCCAGACATTTTTAAGGTAATTGGCTTACTAC  
AATATGGACATTCACCAAAATATGATGTTAAAACTCTGTCTACTAGTTAGTAGTCCCTCAGCC  
ACTCATATAAGCATATTTGATGGAAAGGTTGTCCACACTGAGAATTATCACACACTTGATCAG  
GAATGGTACCGTCAAGTTGATAAGCATAACAAATTCACAATCCATAGTAAATCAGATTTTT  
CCAGGATAGCACGAGCTGGAAAATCAATTTCTAAAACATCTTTCAAATTTTGTAAACACACTAT  
TTTCTGGATCCCTGAAAGCATGGGGAAAAAAATTTATGCTGTGAACCTTTGTAATCACCAGAA  
AGTAAAAATTATATTGCCAAGGTACCTACCACAAATGTATGTTCCCTGCTCAGCTTAATTCCTCA  
GGGGTTTTACCACTTCAGATTAAAAAAATTTAATAATTGCATGCTCTACTCTTGGTTTC  
TAAAGCCACATTTGATACAGAATGTTTCTTAACTACTTGATTAGAAAATCAAATTTATATGTAT  
TATGTTAAAAACAAAATTATACAGTTGAGAATGCTGAGACATTGTCATTTAAATAACTATCA  
TTATTGCGGTGAACCGAGATCGCGCCATTACACTACATACTGGGCAACAAGAGCAAACTCC  
GTCTCAGACAAAAAATAAAAACTACCATTAAATATACTAATATTGTCTAATAATTTAACAAATGCT  
AGGGCAAGGATTTTATGACTCTATTAACAAACGTTTAAATCTCAGATGTCATACCATGGTCAG  
CTCCAAGAAAGAAGCACTCAGGAAGCATAGTAGGATGCCTGGGGTCTACCTCTATATTTATG  
GCAACATTATTACCTAATGCAATTCTGCGTGCATGTTGCACCCCGGGGAGGTTTTCTGGCT  
CAAGTACCCAGGTCTTCTCATCGATTTTATCCATAACATCCCAGAATGCCTTTAGTGATTCTA  
TTGCTGCCAAAACTGACTATAAATGCTTATTAAGGAGCTCTGAGGAGAAATTTACCTGAGGT  
GTCCAGGAGGCACAAAATGGAACAGGAAAATCCACAAAATAATCTGGTGATTCTGCAGGATA  
CTTTGCCTTCAACTTGAGAGTGATTAAATGCTCTCTACCAGAAGCATCTTCTGCTTTTAACTT  
GATGGTACCTCGGCCGCCACCCGCATACACAAGTTTATCCCAACCAAGAGTTCTATCTCTT  
CAATAAGGCTTGAGTAGAACTGGGGAGTGATTCAAACCTTTTAAATTTGACAACTGCTTCTCT  
TTTTCTGTATTTTCAATTTTCTCTATTGAAGGAAGATATTTATTTCTAAAATGGCTCCTGCAG  
CAGCCAAAATACAAACAGCTATTATTGGTGAAGTTAGCCGGACGCGTGGTGANN

&gt;326

NNACACATTGTAATATTATATCATGTATAGTTGTACGCAGCTCTGTGCATAACTGTGG  
TAACTTTGTGGGTCGCTCCTGTGGGTCCTGAAACAATGCAGTTCTCCCCGCGTATGCGACAT  
CCGGCTGATGGTCATGGAGATCCGCAATGCTTATGCTGTGTTATATGACATCATCCTGAAGA  
ACTTCGAGAAGCTCAAGAAGCCCAGGGGAGAAACAAAGGGAATGATCTATTGAGAGCCCTC  
TCTCCATTCTGTGATGAGTACTCTTCTGCACTGTTCTTTCTTTCTAATAAAACCTTTCTTTTC  
GAACCTATACTGTCTTCTGTAAATTCTTCTTACTACCCTATGACCCGTGAGCCAACCACTTTC  
CGATGCCAGGGTTCTGACACCTCACCTGGCATAATATAAAGTGTTTTTTTTTATACCCTTCC  
ACTTGAAAGACTACAGAGGAATCTTGCACTGCATAGTTCAAACCTAAAAAGAGAAGAGTTAAT  
TACCTGAAAAGCAAGAGAAAACAAGAAGGGGTAAATTTTGAACCAAGGGAAATCATTTAAGA  
AGTGCTGGTATTTTTCAAATTTCTGTCAGTTGTTACATTTGTCATAAGTAAATGTTTAGGAAT  
AAAGGATGGAGACATGCTTATTTTATTTAACTCCCCCAAAAAAAAAAAAAAAAAAAGTACCT  
GCCCCGGCGGCCGCCCGGGCGGCCGCTCN

&gt;327

TTGGAGCTCCACGCGGTGGCGGCCGAACGTTGGCTTATCATAATATTGCTGACAGC  
AATAAACTGCCACATCTTCAGCCTGCAGGCTGCTGGTGGTGAGAGTGAAATCTGTCCAGA

Table 4

CCCGCTGCCACTGAATCGGTCAGGGACCCCGGATTCCCGGGTAGACGCCAGTAAATGAG  
CAGTTTAGGAGGCTGGCCCGGTTTGTGCTGGTACGCGGGAGAATGGCTCGCAAGCTGACT  
GTGAGCTCGGAAATCCTTTTAAAAGAAATTCAAATGTCACTTTTTATTGGTTTTAAGTACCTG  
GGCCGCCACCGCGGTGAGCNNN

&gt;328

TGTCACAGACACTCCTGGGTTTTGGAATTTTGTGTTCTCTGTCTCTTTGATTTCTCTGG  
AAGACGACACCATGACAATTTCAAAGAAAATAGAACAAAATGAAGGAAAAAGAGGCTCTGTC  
TTAGCACATTCTGTGACCAGCCTGCTGTCTGTGGCGTGCCCTCCTGGCCCGCCTTGGCA  
CATGTTTCGTTTTTGTGGTTGTTGCCTGGACAGGCAACTCTGCAGGGCTGCTTCTCTACGCAT  
CCCTTTCCTGCCTGCCTGTGCCAGGGGTTGTCAAGGGCTTTTGGGTGAGAGTGGGCACCC  
CTTTCTCCAAGGCTCCCTGCAACAGCTGGCCTGTCCCTGGTGGGGCTGACAGCTTTCTTCTT  
ACCTGGCCAGGCTGGCCAAGCCCCAGAGGTGACCTATGAGGCAGAAGAGGGCTCCTTGTG  
GACGTTGCTACTCACTAGCTTGGATGGGCACCTGCTGGAGCCAGATGCTGAGTACCTCCAC  
TGGCTGCTAACCAACATCCCGGGTAACCGGGTGGCTGAAGGACAGGTGACGTGTCCCTACC  
TCCCCCCTTCCCTGCCCGAGGCTCCGGCATCCACCGTCTTGCCTTCTGCTCTTCAAGCA  
GGACCAGCCGATTGACTTCTCTGAGGACGCACGCCCTCACCTGCTATCAGCTGGCCAG  
CGGACCTTCCGCACCTTTGATTTCTACAAGAAACACAAGAAACCATGACTCCAGCCGGCTTG  
TCCTTCTCCAGTGCCGCTGGGATGACTCCGTACCTACATCTTCCACCAGCTTCTGGACAT  
GCGGGAGCCGGTGN

&gt;329

TCCGAAATGGGGGAAAATCACTGCTCTTCCCAGAGCGCATACATGTTTTAACCGTCT  
GGATCTGCCTCCCTACCCATCCTTTTCCATGCTTTATGAAAACTGTTGACAGCAGTTGAAGA  
AACCAGTACTTTTGGACTTGAGTGACCTGGAAGCTGAATGCCATCTCTGTGGACAGGCAGT  
TTCAGAAGCTGCCTTCTAGAAGAATGATTGAACATTGGAAGTTTCAAGAGGATGCTTCCTTTA  
GGATAAAGCTACGTGCTGTTGTTTTCCAGGAACAAGTGCTCTGTACATTTGGGGACTGGAG  
ATGAGTCCTCTTGAAGGATTTGGGTGAGCTTGATGCCAGGGAACAACCCAACCGTCTTTT  
AATCAACAGTTCTTGACTGCCAACTTTTTCCATTTGTTATGTTCCAAGACAAAGATGAACCC  
ATACATGATCAGCTCCACGGTAATTTTTAGGAGCTCAGGAGAATCTTGAACCTTACCCTGAA  
CGTGGTTCAAGCCAACTGGCAGCATTTTGGCCCAATCTCCAAATTAGAGCAAGTTAAATAAG  
ATAATAAAAGTAAATATATTTCTGAAAGTACATTGATGAAGCCCTAAGTTATAACAGAATAT  
TCATTTCTTGCTTATGAGTGCCTGCATGGTGTGCACCATAGGTTTCCGCTTTCATGGGACAT  
GAGTGAAAATGAAACCAAGTCAATATGAGGTACCTTTACAGATTTGCAATAAGATGGTCTGTG  
ACAATGTATATGCAAGTGGTATGTGTGTAATTATGGCTAAAGACAAACCATTATTCAGTGA  
TACTAATGACAGATTTTATGCTTTATAATGCACTGAAAACAATTTTAAATAACTAGCAATTAACT  
ACAGCATATCAGGAAAAAGTACACAGTGAGTTCTGTTATTTTTGTAGGTTTATTATGTTTAT  
GTTCTTTAAGATGTATATAAGAACCTACCTATCATGCTGTATGTATCACTCATTCCATTTTCAT  
GTTCCATGCATACTCGGGCATCATGCTAATATGTATCCTTTTAAGCACTCTCAAGGAAACAAA  
AGGGCCTTTTATTTTTATAAAGGTAATAAAATTTCCCAAATATTTTGCATGAATGTACCAA  
GGTGAAGGGACATTACAATATGACTAACGCAACTCCATCACTTGAGAAGTATAATAGAAAAT  
AGCTTCTAAATCAAACCTTCCCTCACAGTGCCGTGTCTACCACTACAAGGACTGTGCATCTAAG  
TAATAATTTTTTAAGATTCACTATATGTGATAGTATGATATGCATTTATTTAAATGCATTAGAC  
TCTCTTCCATCCATCAAATACTTTACAGGATGGCATTTAATACAGATATTTTCGTATTTCCCCCA  
CTGCTTTTATTTGTACAGCATCATTAAACACTAAGCTCAGTTAAGGAGCCATCAGCAACACT  
GAAGAGATCAGTAGTAAGAATTCCATTTTCCCTCATCAGTGAAGACACCACAAATTGAAACTC  
AGAACTATATTTCTAAGCCTGCATTTTCACTGATGCATAATTTTCTTATTAATATTAAGAGACA  
GTTTTTCTATGGCATCTCCAAACTGCATGACATCACTAGTCTTACTTCTGCTTAATTTTATGA  
GAAGGTATTCCTCATTTTAATTGCTTTTGGGATTACTCCACATCTTTGTTTATTTCTTGACTAAT  
CAGATTTTCAATAGAGTGAAGTTAAATTGGGGGTCATAAAGCATTGGATTGACATATGGTTT  
GCCAGCCTATGGGTTTACAGGCATTGCCCAAACATTTCTTTGAGATCTATATTTATAAGCAGC  
CATGGAATTCCTATTATGGGATGTTGGCAATCTTACATTTTATAGAGGTCATATGCATAGTTTT  
CATAGGTGTTTTGTAAGAACTGATTGCTCTCCTGTGAGTTAAGCTATGTTTACTACTGGGACC  
CTCAAGAGGAATACCACTTATGTTACACTCCTGCACTAAAGGCACGTAAGTGCAGTGTGAAGA  
AATGTTCTGAAAAAGGGTTATAGAAATCTGGAAATAAGAAAGGAAGAGCTCTCTGTATTCTAT  
AATTGGAAGAGAAAAAAGAAAAAATCTTAACTGGAAATGTTAGTTTGTACTTATTGATCATGA  
ATACAAGTATATATTTAATTTTGCANNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN  
NNNNNNNNNNNN



Table 4

&gt;330

&gt;331

GGGCTTACAGTGGCGGGAGTTGGAGGCGGATAACGATTTGTGTTGTGAGAGGCGCA  
AGCTGCGATTTCTGCTGAACCTTGGAGGCATTTCTACGACTTTTCTCTCAGCTGAGGCTTTTCC  
TCCGACCCTGATGCTCTTCAATTCGGTGCTCCGCCAGCCCCAGCTTGGCGTCCTGAGAAAT  
GGATGGTCTTCAACAATACCCTCTTCAATCCCTTCTGACTGGTTATCAGTGCAGTGGTAATGAT  
GAACACACTTCTTATGGAGAAACAGGAGTCCCAGTTCCTCCTTTTGGATGTACCTTCTCTTCT  
GCTCCCAATATGGAACATGTACTAGCAGTTGCCAATGAAGAAGGCTTTGTTGATTGTATAA  
CACAGAATCACAAAGTTTCAGAAAGAAGTGCTTCAAAGAATGGATGGCTCACTGGAATGCCG  
TCTTTGACCTGGCCTGGGTTCTGGTGAACCTTAAACTTGTACAGCAGCAGGTGATCAAACA  
GCCAAATTTTGGGACGTAAAAGCTGGTGAGCTGATTGGAACATGCAAAGGTCATCAATGCAG  
CCTCAAGTCAGTTGCCTTTTCTAAGTTTGGAGAAAGCTGTATTCTGTACGGGTGGAAGAGATG  
GCAACATTATGGTCTGGGATACCAGGTGCAACAAAAAGATGGGTTTTATAGGCAAGTGAAT  
CAATCAGTGGAGCTCACAATACCTCAGACAAGCAAACCCCTTCAAAACCCAAGAAGAAACA  
GAATTCAAAAGGACTTGCTCCTTCTGTGGATTCCAGCAAAGTGTTACTGTGTCTCTTTCA  
AGACGAGAATACCTTAGTCTCAGCAGGAGCTGTGGATGGGATAATCAAAGTATGGGATTTAC  
GTAAGAATTATACTGCTTATCGACAAGAACCCATAGCATCCAAGTCTTTCCTGTACCCAGGTA  
GCAGCACTCGAAAACCTTGATATTCAAGTCTGATTTTGGATTCCACTGGCTCTACTTTATTTG  
CTAATTGCACAGACGATAACATCTACATGTTTAATATGACTGGGTTGAAGACTTCTCCAGTGG  
CTATTTTCAATGGACACCAGAACTCTACCTTTTATGTAAAATCCAGCCTTAGTCCAGATGAAC  
AGTTTTTAGTCAGTGGCTCAAGTGATGAAGCTGCCTACATATGGAAGGTCTCCACACCTGG  
CAACCTCCTACTGTGCTCCTGGGTCACTTCTCAAGAGGTCACGTCTGTGTGCTGGTGTCCATC  
TGACTTCACAAAGATTGCTACCTGTTCTGATGACAATACACTAAAAATCTGGCGCTTGAATAG  
AGGCTTAGAGGAGAAACCAGGAGGTGATAAACTTTCCACGGTGGGTTGGGCCTCTCAGAAAG  
AAAAAAGAGTCAAGACCTGGCCTAGTAAACAGTAGCCAGAGTACTCTGCCAAAG  
CCCCCAGGGTAAAGTGCAATCCATCCAATTCTTCCCCGTCATCCGCAGCTTGTGCCCAAG  
CTGTGCTGGAGACCTCCCTCTTCTTCAAATACTCCTACGTTCTCTATTAACCTCTCCTGC  
CAAGGCCCGGTCTCCCATCAACAGAAGAGGCTCTGTCTCCTCCGTCTCTCCCAAGCCACCT  
TCATCTTTCAAGATGTGATTAGAACTGGGTGACCCGAACACCTTCTCATCACCACCCAT  
CACTCCACCTGCTTCGGAGACCAAGATCATGTCTCCGAGAAAAGCCCTTATCTGTGAGCC  
AGAAGTCATCCCAAGCAGAGGCTTGCTCTGAGTCTAGAAATAGAGTAAAGAGGAGGCTAGA  
CTCAAGCTGTCTGGAGAGTGTGAAACAAAAGTGTGTGAAGAGTTGTAAGTGTGTGACTGAGC  
TTGATGGCCAAGTTGAAAATCTTCATTTGGATCTGTGCTGCCTTGCTGGTAACCAGGAAGAC  
CTTAGTAAGGACTCTCTAGGTCCTACCAATCAAGCAAAATTGAAGGAGCTGGTACCAGTAT  
CTCAGAGCCTCGCTCCTCATCAGTCCGTATGCTTTCAGAAAGCTGTGGAACGCTACCTCTTC  
CTTTGAGACCTTGTTGGAGAAGGGTCTGAAATGGTAGGCAAAGAGAAATAGTTCCCAAGAAAT  
AAAAACTGGTTGTTGGCCATGGCAGCCAAACGGAAGGCTGAGAATCCATCTCCACGAAGTC  
CGTCATCCCAGACACCCAATTCCAGGAGACAGAGCGGAAAGACATTGCCAAGCCCGGTAC  
CATCACGCCAGCTCCATGAGGAAAATCTGCACATACTTCCATAGAAAGTCCCAGGAGGACT  
TCTGTGGTCTGAACTCAACAGAAATTAGACATTCTAATCTGAGTGAGTTACTGAGCTTTGG  
TCCACTAAAACAAGCTGAGCTTTGGTCCACTAAAACAAGATGAAAAATACAAGAGTGACTCTA  
TAACTCTGGTCTTTAAGAAAGCTGCCTTTTCATTTTAGACAAAATCTTTCAACGCTGAAATG  
TACCTAATCTGGTTCTACTACCATAATGTATATGCAGCTTCCCGAGGATGAATGCTGTGTTTA  
AATTTCAAAAGTAAATTTGTCACTCTAGCATTTTGAATGAATAGTCTTCACTTTTTAAATTATT  
CATCTTCTCTATAATAATGACATCCAGTTCATGGAGGCAAAAAACAAGTTTCTTGTATCCT  
GAAACTTTCTATGCTCAGTGGAAAGTATCTGCCAGCCACAGCATGAGGCCTGTGAAGGCTG  
ACTGAGAAATCCTCTGCTGAAGACCCCTGGTTCTGTTCTGCCTCCAACATGTATAATTTTATT  
TGAAATACATAATCTTTTCACTATGCTTTTGTGGGGTTTTTTTTAAGTATGTGTAAAAATGTGA  
TGCTCAGATAAGTACATTTATATCAGTTCAGTGTTAAATGCAGTCTCTTGAGTTAAAGTCATC  
TTTATTTTAAATGCAGTGATAAATGTCAACTCTTCGGAGAACTAGGAGAAACAACAGAAA  
GCTGTGTTTGTCTTTTCTCTCAAATATATCTCCCGTATGAGATTTTCAGGTCCCATGTTTTT  
ACCAAGCAATCTGCTATGTCAGCCAACCCAACATCACTTTCTACAGGAGGTTATGATTTTTGC  
CATTTACTAGAGGAAGATGTTTTATGAAATCAATTTGGGGTTTGAATTCAGGTGCAGTCATCA  
GTTCTTTAGGGGCTGCAATGTTTTAAAAAAAATAAGTCATCAGATTTTAAGAAAAAAGTGATG  
ATTTCTATTGATATTTTTGTAAACAGAAATAGCTCTTAACTGAAATCCAGAACCAGAAACAT  
AAATCTTGAGTTTCTTTTCATGTACATAAAAAGCAATAGCCTTTTAGTATAGATAGCCCTGAGC

Table 4

CAAAAAGTAATAGAATTTTCTCTAGATATTTAATACAGAGAGTGTATAGACTGACTCTAAGTTA  
ATAATGTGCAAAATATCTTAAACATCCCTCCCCTTATTCAACAATTATGTATCAGTGATCTTGA  
ACCATTGTTTTATATTTTTTCACTTTGTAACTCATGGAAAGAGGCTTTACATACTTTCTATGT  
ACTATTTACTTAGAAGGGAGCCCCCTTCCAGTCATGAACTTCATTTGTTTTATCCATATCCC  
TGAGGACTGTGTAGACTTTATGTCTAGTTCTGTGTAGACTTTATGTCTAGTTTTGTCTATTATTG  
AAAATCTATTCTGACAACTTTTTAATTCCTTTGATCTTATAAGTTAAAGCTGTAACAAGTAAAT  
TGCATGGATCAAGTAAGCATAGTTTTATCCAGGGAGAAAAATAAAAGGAAGCCATAGAATTG  
CTCTGGTCAAAACCAAGCACACCATAGCCTTAACTGAATATTTAGGAAATCTGCCAATCTGC  
TTATATTTGGTGTGTTTTTGTCTGTTGGGCTTTGGGAAGATGTTATTTATGACCAATATCT  
GCCAGTAACGCTGTTTATCTCACTTGCTTTGAAAGCCAAATGGGGGAAAAAAATCCATGAAAA  
AAAAAGATTGATAAAGTAGATGATTTTGTGTTGTATCCCTACCCATCTCCTGGCAGCCCTACT  
GAGTGAATTTGGGATACATTTGGCTGTGAGAAATTATACCGAGTCTACTGGGTATAACATGT  
CTCACTTGAAAGCTAGTACTTTTAAATGGGTGCCAAAGGTCAACTGTAATGAGATAATTATC  
CCTGCCTGTGTCCATGTCAGACTTTGAGCTGATCCTGAATAATAAAGCCTTTTACCTTATCTG  
ATGTCCTTTTTTGTGCTTTTTGCATTACCTAGAAGCAGTCTACAAAAAGAACTATAGTAGTCA  
AGAATCCCTTCTACTTGTTTCAATAAATGTTTATTTCCCGAGTTATAATCTATTTCAAGCTGAAA  
GAGCTTTTAAATAAAAAACATCTTGCNNNNNNNNNNNNNNNNNN

&gt;332

&gt;333

NNNAGTGGCATGGGGGTGGGGTCTGACTCCACACACTAGCCACATGGCCAACAGC  
ATAGTGAAACGGGGTCCCATTCTCCATGTCTATTGTGTAATCCAATGGTGGCTCATAGAGATG  
GAATGCAGAGGGTTGCAAAAGAAATCAGAAGTTTGGTTCCAGGACAGTTTCTAGATGAAC  
TACTTTTCTCCAGCCCTCTCTCTTTACCGAGGGTGAGCAATACAAAAGGGGTGTGCTG  
CAGCTCCAGCTTTCAGAGTACCGCCACAGATCCACAGCCTGTCTGATCTGAGAGCTGAGC  
CGATGCCCTTTCTTCTGGCTGTGTCTTTTTACCTTCTGGACAAGTAGGATGAGGTGAAAGG  
AGCTGTCTTCTAAGTCTTTGTATCTCCATTTGTCTGCAGTTTCTCCTCGGTCTCGTGTGTCT  
GTGTGTGCCAGTCCCTTGTGCTGACACAGGACGTCCCTTAAAGTCCAGTCTGCGGATTTCT  
GAATCTCACTCTTTCCCTCTTTAAAGTTCCAGGATCCTTCTTATCTCCCTTTCCCTCAATGTCT  
GGCTTAGTCTCTTTGTTTCCGGGCGTAAAAGCACTGGGATTAATATGTTTTCCAGGCTGAGG  
GAAAACACAGGAATGTGATGTGAAAAGGGACTTTTTTTTTTCTTCACTGTGCTTCTCTCCT  
CCCTTTATTTCTCCCTACCTTTTTCTCCTCTTTTTCTTCTTCTTTTTCTTCTTTCTTGCCTG  
GATTCACTCCAGAAATGTTAGGACTACCTCAGTTTGTCTCAAACCAAACCTCAAACAACAG  
CAGCCACTGAAATCAAGGAACTTCACTAAGAATTTAACAGATCAGCAAAAACCGCCTCC  
TTCCATTTTAGCACGTTTCAAGTGGACTCAGTGAGGAGTGAGAAGGCTGTTCTTTGGGGTG  
GGGTAAAGTTTTTAACTCCACACATCATATAAATCACTTTAGAAGAGGATGACTGGTGCCT  
TAACCCCTTCAAACCAAGTCATCGGGGTAACCTTCTTCCAGTATGTTTTTACCGCGTCGAC  
TCCNNN

&gt;334

&gt;335

ACTTGACTGCTAACAACCTTTCAAATTCTTCTACTTACTCCCTCTTCTTCTCAGCTTCACAT  
CTGGGAAAACCTGATAGGGAAGCCTAGGTAGGCCTACCTTTGGTGCCAGAGGGAAGCTCAAT  
CCATGCAAGCCCCAGATAATATAGAAACCTCCCCAACCTTACCCTACACCCCTCACCTCC  
CAATCCAAGCCAGTCTCCTTTCCCTGCTTTCTCAAACCATGTTTGGACCTGTTGGAAGCTC  
CCTCTGCTCTCCCTAGAAAGCTTCATTATGTGAGTGATACATCTTTTCATATCTTCTTGGTGT  
GTGTGTGTGGTATCATCAGCCTCAACATCTGAAGCAAATGTTGGGTGGGGTN

&gt;336

GACCCACGCGTCCGGTTTGTGGAGTCGCGAGTGCTGGTGTCCGGCTGGAGTGCAA  
TGGCGTGATCACAGCTCACTGCAACCTCCGCCTCCCGGTTCAAAATGTTTGATAGGTTTAT  
ATTGTCTTTTTCCATCCTCTTCAGACATCCTTCAAAGTTGAGCCCTTTTTTCCGCTGTGAGTC  
TCTACACATGTCTGACACTCTCATGTCCACGGATTACAGAAAGACATTCTTGCAGGAGAA  
CATGGCTTCCAGTGATGTGGGAAAGATGGACTCTGATCTCCAGGGTAGAAGTGGCAACCA  
GAGTAAGCCAGTTCGTTGAAGCAAATGATGGCTGCAGTGAAGAGTACCGAGGCACACCCAT  
CCTCAAACAAGGATCCACACAGGGCCAGAAATCAGCCCTCCAGGGTAACAGCCCTGACTC  
CGAGGCCTCCGCTCAGCGCTTCAGGCAGTTTTGCTACCAGGAGGTAAGTGGCCCATGAA  
GCTTTTAGCAAACCTCTGGGAACTCTGTTGTGAGTGGCTGAGGCCGAAGACCCACTCAAAGA  
GGAAATCCTGGAGCTGCTGGTTTTGGAGCAGTTTCTGACTATCTTGCCAGAGGAGATCCAGA

Table 4

CCTGGGTGAGGGAGCAGCATCCAGAAAACGGCGAGGAAGCTGTGGCTCTGGTTGAGGATG  
TACAGAGAGCTCCTGGACAACAGGTTCTAGATTCTGAGAAGGACTTGAAAGTACTCATGAAG  
GAGATGGCCCCCTTTGGGAGCAACCAGAGAATCACTGAGATCCCAATGGAAACAGGAGGTTT  
AGCCAGAGGAACCGACTTTTAAGGGATCACAGAGCTCACACCAAAGACCAGGGGAACAGTC  
AGAAGCCTGGCTTGCTCCTCAGGCTCCCAGGAACCTGCCTCAAAACACAGGTTCTCCACGAC  
CAGGAGACAGGTGCTGTGGTCTGGACAGCTGGGCCCCAGGGACCAGCCATGCGTGACAAC  
AGAGCTGTATCCCTCTGTCTAGCAAGAATGGATGTGCCAGGCCCTGCACAAAGGGCCCTCT  
ACAGGGGTGCCACCCAGAGGAAGGACAGTCAGTCTCGCTGGCAACAGGTGTGCCCTGGG  
GCTATGAAGAGACCAAGACGCTCCTGGCTATTCTTAGTAGTTCTCAATTTTATGGAAAACCTC  
AGACCTGTCAGCAGAACAGCCAGATCTACAGGGCCATGGCGGAAGGACTCTGGGAGCAGG  
GTTTTCTGCGGACCCAGAACAGTGTGCGACCAAGTTCAAAAGCCTACAGTTGAGTTACCGC  
AAAGTGAGGAGAGGCCGTGTGCCTGAGCCTTGATCTTTTATGAGGAAATGAATGCTCTTTC  
AGGCTCCTGGGCTCTGCACCTCCTATGGCAAGCGATGCTGTTCTGCGCAAGAAGGAAGT  
GATTATGAGGCTGGAGAGCTGAATCACCAGAAATGGGGAACCCACGGAGGTAGAAGATGGCA  
CTGTGGATGGTGCAGACAGGGATGAAAAGGACTTCAGGAATCCTGGCCAGGAAGTCAGGAA  
ACTAGACCTGCCAGTGCTGTTCCCAAACAGACTTGTTTTGAGTTCAAGAACGAGATTAAAA  
AAGAAAATCTAAACATGGGATGATTGAGAGGAAGTAAGAAAATAAACCAAGGCTTTTACAGAG  
GAAAGTCCCGAGGAGTCTATTGGCACTCTGAGGCTACCAACAGGCTTGGGAGAGTGAGCC  
AACATCCAGAAGGGCAATGTAGAAATTTCTCCAGGCAGAGTTGAGGAGAAACCCATTCCC  
AGAGAGATGAGTCCCGAAGTTTGGTGCCGGACAAGCCTGTCCAATTTCTCTGGGGGAAAAAC  
TGTCCGATGTGCTCTCCCAAGCAGGTCAATGGAAAATTTCAAGTCGGTTGGGAAACTTTCCA  
GTCTATTGTGCGNNN

&gt;337

TCGACCCACGCGTCCGGGCCCCGCGTGACGGTGTCCCTGGGGCTCTGCGCTCGT  
CGGCCGGCCCCGGCCTCGCCGCCCCGCGCAGTACCCAGCCCGGCCCGCGGACCCGCT  
CTACTGCCGGCTCCGCGCCCTTCCCCGAGGGCTGGATGATGGGCTGTTTCGCCCTGCAAA  
CGGTGGACACCGAGCTGACCGCGGACTCGGTGGAGTGGTGCCCGCTGCAAGGCTGCAGG  
CACCTGCTGGCGTGCGGGACCTACCAGCTGCGGCGGCCGGAGGTACGCGGGATAATCAAG  
GTGTCACATCCCGGTGGCTGGACATGCCCTCTTGGGCTTGGCAGATGCCAGTGGATCCATA  
CAACTACTCCGCTGGTGAATCTGAGAAGAGCCACGTGCTGGAGCCATTGTCCAGCCTTG  
CCCTGGAGGAGCAGTGTCTGGCTTTGTCCCTAGATTGGTCCACTGGGAAAACCTGGAAGGGC  
CGGGGACCAGCCCTGAAGATCATCAGCAGTGACTCCACAGGGCAGCTCCACCTCCTGATG  
GTGAATGAGACGAGGCCAGGCTGCAGAAAGTGGCCTCATGGCAGGCACATCAATTGAG  
GCCTGGATTGCCGCTTCAATTACTGGCATCCAGAAATTTGTGATTGAGGGGCGACGATG  
GCCTTCTGAGGGGCTGGGACACCAGGGTACCGGGCAAATTTCTCTTACCAGCAAAGACAC  
ACCATGGGTGTGTGCAGCATCCAGAGCAGCCCTCATCGGGAGCACATCCTTGCCACGGG  
AAGCTATGATGAACACATTCTACTGTGGGACACACGAAACATGAAGTAGCCGTTGGCAGATA  
CGCCTGTGCAGGGCGGGGTATGGAGAATCAAGTGGCACTCCTTTTACCACCAACCTGTT  
TGGACGTCTGCATGCACAGN

&gt;338

&gt;339

&gt;340

&gt;341

NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNTTGTTATATTTTTTTTTTTTACAT  
CCCAAACAGGTCTTTTTATTTAACATAAGGCCAAAGAAGCTATCAGGCGTTGCTGAATACTGT  
CCACTAACTGTACAAAATATTGACTGCATGCCTCGCAAACACCAAAATATCCGCTGGAATGC  
CATAGAAATAAATAACTTCTGCTATAAACACATGAAAACATATCAAACGTATCTCTTTAAAC  
ATATTGTAATAAAAAAATTACCAGTACTTCTACACAATAAATATTAAGAAACCATTGACATAG  
TTGAAATGCACTCATATAAATTAACAACCTTTAATTACATTAGCCAAACAGACATTGGTTAAAGA  
ACTGCATGTAGTATGCAAAACAAAACAAAACAAAACAAAACAAAAGTAAAAAACCAACAAA  
TAGAAACAAAACAAAACAAACATCAACCACAGAACATAAAAAGTTTTAAATAAAACAGGCT  
TCAGATTATCTTGGCTTTCATAATTATTTTTCTTTTAAAGAAAAATATCAACCCATTGTCAAT  
GCACTGTTTTTCAAAGCATTTAATAGAGGGTAAACCCCTTTGGAAATTAATACAGAAGAAAT  
GATTCACTTTATGCATAAAAAATAAATAAATATAGCTGAGACATGTGGTTTGCTTCTGCTCT  
TGAAGATGTGAACAGCTTCTAAGCATTTCATTTTCTCTGACCCATACAAACAGCTTCTCAGTGAT  
ACAGGGTTTAATTTAAACACATACAATGTCCACCCCCAAACCTTCTGCCACATCTACAAGTT

Table 4

TTATTTATTTTGTGGGTTTTCAGGGTGACTAAGTTTTTCCCTACATTGAAAAGAGAAGTTGCC  
 AAAAGGTGCACAGGAAATCATTTTTTTAAGTGAATATGATAATATGGGTCCGTGCTTAATACA  
 ACTGAGACATATTTGTTCTCTGTTTTTTAGAGTCACCTCTTAAAGTCCAATCCCACAATGGT  
 GAAAAAAAATAGAAAGTATTTGTTCTACCTTTAAGGAGACTGCAGGGATTCTCCTTGAAAC  
 GGAGTATGGAATCAATCTTAAATAAATATGAAATTGGTTGGTCTTCTGGGATAAGAAATTC  
 AACTCAGTGTGCTGAAATTCACCTGACTTTTTTGGAAAAATAGTCGAAAATGTCAATTTGGT  
 CCATAAAATACATGTTACTATTTAAAGATATTTAAAGACAAATTTCTTTTCAGAGCTTCTAAGAT  
 TGGTGTGGGCAGATTTTTAAGAGCCTAGAGTTTAGTCTTAGAGAAAGAGTGAGGAGATAGTA  
 AGGTTAGATAGAGCCACTGAGTTTCAAGAAAAAACATACTACTAAGAATCCCATATGTTATA  
 ATTTAAAGCCTTTACTTTTTGGCCTCATGCTGCTAGGTGAAAGAGTGGTTGTTTACAGGACTTG  
 TATTTTCCAAGATGATTAAGATGGTAAATACTATCTTTCAATGTTATCAAAAAATGGTAGCA  
 ACTTATACTTCTATTTCAAAGCCATATAAATTTAACAAAATTAAGTTTGTGGGTGTTTGATAA  
 CCCAATCACTCAATATCCAATTTAAATATGGAATAAGTTTCAAATAAATATGGAATTACATTT  
 CTCTGCTTCTGATAACTGTGGTCACTAATCAACCCCATGTTATCCCGCATATGTCTAGGACT  
 TAGCTTAAAAAGATAGCAGATGTATTTGAGATGAGTGGGAACTATACATGGGTATCAGCTTTC  
 TTGGTAAATTTCTGCTTTTTCCATGGCCTTGACCATCTTTGCTACTGCGCAGTGAACCAGGAC  
 TTAATTTCTCACACTGTTTCTGCAGGTTCCGGTACCAAGAAGATGCAGTTCAAATACTGCC  
 AGTTTTCCAAGAAATTTGTAAAGTTGAACATGGCCATCTACTCTTGCTTAAACTTTTTCTCA  
 CCACACCCACCTTCCACATGCATGATATCCAAGGTCGACAGACCTGGATTAGAATCCACTC  
 TCAAGCTTCTCATGCACTGCGTATTGTATTTCTGCATAAGAAAGGGCTGCCTCTAGAACACA  
 GTAAGTGTATTTGCCAGTAGTGACATTGCCATATAGCCAAGTGTTATAGTATACCAACT  
 TAGTATATTTTCAAGGAGAGCTAAACCACCTTTGTAATGTTTGGTTTCTCACTGTTATCTTC  
 CTTTCCTATAATTAATTTATTTAATCTACAAATTGACATAGGGCTAAAAGCTTCAATATTTTAC  
 AAAATATTAATTAATGTAATTGTTCCCAATTATTAGAACTTTTTTCCATTTTCAAATGTTTG  
 CCAACTTCACACAAGTGTGTAATAATAGGGCTCTGGATTTTCAAAGCACATACATGAATAAT  
 TTATTAGCTATTTCAGGCAAGCTAAGTACTAGAATAAACTAGATAAAAACTTGGCTTTAAGCA  
 TGTACTTTGATATTTATAAAACAAAGGTGTTTTTTTTTCAATTTCTGCATCTGAATCAATACAAAT  
 TTACACATGAAGAATTTTGGCTGTAAATTTAAATTTTAGAGATTTTTACTACTGCCCTCACCTC  
 TGCCTCCTCTTAATGTTCTCTTCTTACTCTCCCTCTCTTAACACTTTCTCTCAAATTAATTAT  
 CTTTATAGTTAGTGATGACATTATTTTCCCAGCTGGTACAGGTAATATTTCTCACACCAAGC  
 CTTAATCATTTTTTAAAAAATACACTCAACTCAATTTCTGGCCTAAATATTATTTTCTGAAAAAG  
 CTTCTGATTTAAGATTGATTCCAATAGACACTAAGTTGGAAAAACATCAGCCCAGAGTTTTGA  
 TTATCATCCTGTTTTCCCCACAGGGGATAACTTGTAGAAGTGGGAGGGGCACAAAAAAGAGG  
 AGGAAATTTCCGACGCGTGGGTGCACTCCCTATAGTAGN

&gt;342

GTGGCGGCCGAGGTACAGGTTTAGTCTGAATGCACTGTCATGAAATTTAACTTTCA  
 TTATAATACTGTTTTAAGAACTTACAGCATCTGCTTTACAAATGGTGTTAGCTACATGTCGACA  
 CAGCATCTTTAGCCAGTTTTCTTTTGGAAAGTTCACTGATGTCATCTGGAACTGAGTAGCAC  
 ATTTGCCTGCTCTGTTGGTGGCCTCACAAGCAAGGCAAAAGCATTATGGCAATCTAGGGTTC  
 CAGAATAACCATAAACATTAAGTGTCACTCCTTGGAAAAATGACAGATGTATGCAAGTTTAGTT  
 CCTCAGAGCAATGAAATTTCCAATGAAATGAACATCACTTCTCCACTTTCTTGTCTTATTTT  
 TAATAAGACAAAGAACATCACCATATTAAGTTGAAGT

&gt;343

ACATCAGAGATGCTCACACATTCTTTGAGTAGTTTAAAACTCATTTTAACCACTTTTT  
 ATTCTTTGTATTCAAACCAATCACTGGCAATAGCTCTAAGTAGGTCATCAACTCTCCTCCATG  
 TCTTCTTTCTAATTCTGCCACAGACTCACTTCTTCCGTAAATTAATGGAAGGAAATGAGTGTC  
 TGAGTTCTTAGAATCTCAAAGGCATGAGGATAAAGCTTTCTGGAGATAATATAAGTGGTG  
 GCAGGAAGATTTGGGAGCCAGATGATACTTTTTCTCTTAGAGAACTCTGTGGAAGCTCT  
 GCCTATACTGTGGGAAATAAATTTCTAGACGCTGGCTTCTTTCTGTAGTAAACATGTGGGCC  
 TTTAAAAATGTTGAACCAAAATGTGCTTCAAAATAGTTTAGTTATAAAACATTTATGGGGGAGT  
 ATGTATGTGCCAATCAGAGGGCTTCAGAGATGAAGAAACAGTTCTTACCCTAGTGTGCTT  
 AGAATCTAGTAGTAGTAAGTAATAATTACTAACATATGCATTTACTATATAGGCAATACTAGGG  
 TAAATATTTTACATAGATTACCTTATTTAGTAGCTCTTAGCTGCTAAAAAAGATAA  
 AGATGTCCAGTCTAGAGTCTCATAATTGTATGGTAAACACTAAAATGGTGGTATGATCCAGTT  
 GCCATGGAACACAGGGGCGGGGCCCTCAGCTCAGTTTAGGAAGGAGCAGATTACTGAGT  
 GGTGTCCTTAACCTGGTAATTACATGAAGAAGAAGAGGTTGGGCCACCACAGGCAGAGGAAG

Table 4

GACCACAGGCAGGGCACAGGAGTATGCATTTGTAGGCTGTATATGGGGAAGTAAAGCAGAT  
 TTGTCTTGCTAGAGCTAAAGATGTAGACAAGAGTAAGTATTATGTAGGAACTTCGATCTGACA  
 TGTTTAGCCATTGGGCATTGGCCATCTGGTGGAGAGCTGTTGACAAAAAATAAGTAATTTGG  
 ATTTTAAAAGGATCGACTCGGTGGTATAGATAATGATGGCTGGAAAATGAGGCGATAGAGGT  
 AGACAAATGAAGAGGTTATGAAAATAATCCAGGCAAAAAGACAATGAAGGGCAAGGATGGAT  
 AGGAGTATATCCAGTATTCTGGCATGCTAGAGTTCAATTGAAATGTTTAACTTGATGAATAA  
 TAGGTAAGGAAAGTGAGTGA AAACTAACTACTAGATTCTTAACTCTTAAACCCTTCACTGGG  
 TCAAAAGTAATGAGTTTGAACATAGTGTGAAATTAACCTGATTCTACCTTGTGTTTGAATTC  
 TACATTCATAAAGAAAAAAGGAAATGTTATGGTCGGTCCCAAATTATAGTCAATTATAA  
 CTATTTTCCCTCAAAGTTGGTCTTACCTATGTTTGTGGTAAGAATTGATTGTTTAAATATAGGAA  
 AAAAGACCTAAATTTGGTGAGATAATGTGATTCAAATTCAAAAAAGGAAAAATTAGTAG  
 CTCTGCATTGAGAAGATTGAATGATATTTAAAGACATTCACATAAACACACACCCAAATAG  
 ATTCTTACATTTACTTGATTCCAAAAACAGAAAATATTGAAAAGAATGAAGGATGGCAAC  
 AAAGT

&gt;344

NNACACATTGTAATATTATATCATGTATAGTTGTACGCAGCTCTGTGCATAACTGTGG  
 TAACTTTGTGGGTCGCTCCTGTGGGTCTGAAACAATGCAGTTCTCCCCGCGTATGCGACAT  
 CCGGCTGATGGTCATGGAGATCCGCAATGCTTATGCTGTGTTATATGACATCATCCTGAAGA  
 ACTTCGAGAAGCTCAAGAAGCCCAGGGGAGAAACAAAGGGAATGATCTATTGAGAGCCCTC  
 TCTCCATTCTGTGATGAGTACTCTTCTGCACTGTTCTTTCTTTCTAATAAACTTTCTTTTC  
 GAACCTATACTGTCTTCTGTAATTTCTTCTTACTACCTATGACCCGTGAGCCAACCACTTTC  
 CGATGCCAGGGTTCTGACACCTCACCTGGCATAATATAAAGTGTTTTTTTTTATACCCTTCC  
 ACTTGAAAGACTACAGAGGAATCTTGCACTGCATAGTTCAAACCTAAAAAGAGAAGAGTTAAT  
 TACCTGAAAAGCAAGAGAAAACAAGAAGGGGTAAATTTTGAACCAAGGGAAATCATTTAAGA  
 AGTGTCTGGTATTTTCAAATTTCTGTCACTTTACATTTGTGATAAGTAAATGTTTAGGAAT  
 AAAGGATGGAGACATGCTTATTTTATTTAACTCCCCAAAAAAGTACCT  
 GCCCGGGCGGCCGCCCGGGCGGCGGCTCN

&gt;345

1ATAGGGAGTcgaCCACGCGTCCGGGGGCTTAAGCGGGGGGAGTCGAGCCAGCG  
 TCGCCGCGATGGTGTGTTGGAGAGCGAGCAGTTCTGACGGAGCTGACCAGACTTTTCCA  
 GAAGTGCCGGACGTCGGGCAGCGTCTATACCTTGAAGAAGTATGACGGTCGAACCAAA  
 CCCATTCCAAAGAAAGGTACTGTGGAGGGCTTTGAGCCCGCAGACAACAAGTGTCTGTTAC  
 GAGCTACCGATGGGAAGAAGAAGATCAGCACTGTGGTGAGCTCCAAGGAAGTGAATAAGTT  
 TCAGATGGCTTATTCAAACCTCCTTAGAGCTAACATGGATGGGCTGAAGAAGAGAGACAAAA  
 AGAACAAAAGTAAAGAAGACCAAGCAGCTTGCAACCACTAGCCTGGGGAGGGTCCGCATGT  
 GTCAAGGGTGAGGGCAACAGATGCTGGACCCAGGGAGCTCTCTGCCACAGGTCAGTCTAC  
 AAGGCCTCAGGGACCAACTTGCCAACAGCTGGACTTGATCACTAGCTGGCAAACCTGAGCTC  
 ACGTATCGGGTGGAATAACAAGCGGACTTTGCTCTCTGCTGTGCAAAACGCTGTTTTAGAG  
 GATTTGCCACAGCAGCGGATAGAGCAGGAGAGCACCACCGGAGCCCTTGAGACATCCTTGA  
 GAAGAGCCACAGCATAAGAGACTGCCCTGCTTGGTGTGTTTGCAGGATGATGGTGGCCCTTC  
 GAGGAGCTTCTGCATTGCTGTTTCTGTTCCCTTGACGCTTTTCTGCCCCCGCCGAGTGATACC  
 CAGGACCCAGCCATGGTGCAATACATCTACCAGCGCTTTGAGTCTTGAGCAAGGGCTGG  
 AAAAATGTACCCAAGCAACGAGGGCATACATTCAAGAATTCCAAGAGTTCTAAAAAATATAT  
 CTGTCATGCTGGGAAGATGTCAGACCTACACAAGTGAGTACAAGAGTGCACTGGGTAACTT  
 GGCCTGAGAGTTGAACGTGCCCAACGGGAGATTGACTACATACAATACCTTCGAGAGGCT  
 GACGAGTGCATCGAATCAGAGGACAAGACACTGGCAGAAATGTTGCTCCAAGAAGCTGAAG  
 AAGAGAAAAAGATCCGGACTCTGCTGAATGCAAGCTGTGACAACATGCTGATGGGCATAAA  
 GTCTTTGAAAATAGTGAAGAAGATGATGGACACACATGGCTCTTGGATGAAAGATGCTGTCT  
 ATAACCTCicaAAGGtgTACTTATTAATTGGATCCAGAAACAACACTGTTTGGGAATTTGCAACAT  
 ACGGGCATTTCATGGAGGATAACACCAAGCCAGCTCCCCGGAAGCAAATCCTAACACTTTCCT  
 GGCAGGGAAACAGGCCAAGTGATCTACAAGGTTTTCTATTTTTTTCATAACCAAGCAACTTCTA  
 ATGAGATAATCAAATATAACCTGCAGAAGAGGACTGTGGAAGATCGAATGCTGCTCCAGGA  
 GGGGTAGGCCGAGCATTGGTTTACCAGCACTCCCCCTCAACTTACATTGACCTGGCTGTGG  
 ATGAGCATGGGCTCTGGGCCATCCACTCTGGGCCAGGCACCCATAGCCATTGGTTCTCAC  
 AAAGATTGAGCCGGGCACACTGGGAGTGGAGCATTGATGGGATACCCCATGCAGAAGCCAG  
 GATGCTGAAGCCTCATTCTTGTGTGGGGTCTCTATGTGGTCTACAGTACTGGGGGCCA

### Table 4

GGGCCCTCATCGCATCACCTGCATCTATGATCCACTGGGCACATATCAGTGAGGAGGACTTG  
CCCAACTTGCTCTTCCCAAGAGACCAAGAAGTCACTCCATGATCCATTACAACCCCAGAGA  
TAAGCAGCTCTATGCCTGGAATGAAGGAAACAGATCATTTACAACTCCAGACAAGAGAA  
AGCTGCCTCTGAAGTAATGCATTACAGCTGTGAGAAAGAGCATCTGGCTTTGGCAGCTGTT  
CTACAGGACAGTGAGGCTATAGCCCTTCACAATATAGTATCCCTCTAATCACACACAGGAA  
GAGTGTGTAGAAGTGGAATACGTATGCCTCCTTTCCCAAATGTCACTGCCTTAGGTATCTT  
CCAAGAGCTTAGATGAGAGCATATCATCAGGAAAGTTTCAACAATGTCCATTACTCCCCAA  
ACCTCCTGGCTCTCAAGGATGACCACATTCTGATACAGCCCTACTTCAAGCCTTTTGTTTTACT  
GCTCCCCAGCATTTACTGTAACTCTGCCATCTTCCCTCCCACAATTAGAGTGTGTATGCCAGC  
CCCTAATATTACCACATGGCTTTTCTCTCCCCTGGCCTTGTCTGAAGCTTTGCCCTTTTTTC  
AAATGTCTATTGATATTTCTCCCATTTTTCTACTGCCAACTAAAAATACTATTAATATTTCTTTCTTT  
TCTTTTCTTTTTTTTGAGACAAGGTCTCACTATGTTGCCCAGGCTGGTCTCAAACCTCCAGAGC  
TCAAGAGATCCTCCTGCCTCAGCCTCCTAAGTACCTGGGATTACAGGCATGTGCCACCACAC  
CTGGCTTAAAAATACTATTTCTATTGAGGTTTAACTCTATTTCCCTTAGCCCTGTCTTCCAC  
TAAGCTTGGTAGATGTAATAAAGTGAATAATTAACATTTGAATATCGCTTTCCAGGTGT  
GGAGTGTTTGCACATCATTTAATTCTCGTTTTACCTTTTGTGAAACATGCACAAAGTCTTTACAG  
CTGTCACTTCTAGAGTTTAGGTGAGTAACACAATTACAAAGTGAAAGATACAGCTAGAAAATAC  
TACAAATCCCATAGTTTTTTCCATTGCCCAAGGAAGCATCAAATACGTATGTTTGTTACCTAC  
TCTTATAGTCAATGCGTTTCATCGTTtAGCCTAAAAATAATAGTCTGTCCCTTTAGCCAGTTTT  
CATGCTTGCACAAGACCTTTCAATAGGCTTTTCAATAGATATTTCTCCGAAAAACCAGTCTA  
AGGGTGAGGACCCCACTTACGCTtctCTTGCTCTTGtGtctctTgttTCTCTTTCTGCTTTAAAT  
TCAATAAAAGTGACACTGAGCAAATAACCTCATCAGgttATATtGCCcaCATAcC

**>346**

**>347**

NNNAGGGACCCAAATTTTCATGAAGGCAGATTTCTCCCTCAGAAACCAGGGCAACATT  
 TATAAGGGGCTTTTAAAAAGCCAACAACTGTACACAGGATCCTTTACCACAATATATTCTT  
 TAGGAGAGAAATGGAATAAGACATTTTCTTTTGCTGTCGACGGTGTGTGTGTGTTCTGTTATGA  
 GATGGAGTCTCACTCTGTTGCCAGGCTGGAATGGAGTGGTGCATCTCAGCTCACTGCAA  
 CCTCCGCCTCCCGGTTCAAGCAGTTCTCCTGCTGAGCCCTCCAGAGGAGTAGCTGGGATTA  
 CAGGTGCGTGGTACCACGCCAGCTAATTTTTTTATGTTTGTAGTAGAGACGAGTTTCACCA  
 TGTTGGTCAGGATGGTCTCAAACCTCTGACCTCAGGTGATCTGCCTGCTTCGGCCCTCCCAA  
 GTGCTGAGATTAGAGGCATGAGCCACCACCTGGCTCTTTTGCTTCATCCATCCCTTAATTT  
 CTTTGCTGGAGCATTTTAAAGCAAATATCAGACATACCTTTTACGCCTCACACTTCAACATG  
 CGGCTTGTTGAAATTCGTGCTCCACTCCAGCAACTGCTTTCAATCGGAGTTCATCCTCCGC  
 CGCAGTATGCCCTAACGCAGCGTTATCTTCAGAGCTACCACCAGCTTCCGAAACCTTTCCGA  
 GGAGCGCTTCGCCACCACCTGCACGGCGAAGCGGCGCGTAAACGAACTCGAACGCCAGC  
 CTTTGCGCCTGCGTGCCGCGGCTCGGTTGTTGTTCCGCTTCGCTGGCGCCCGCCGGGCTCT  
 TCCCCCGCCGAGGCTGTGGTTTGGGAGTCGAATTTCCNNNNNNNN

**>348**

ACTTGACTGCTAACAACTTTCAAATTCCTTCTACTTACTCCCTCTTCTTCAGCTTCACAT  
CTGGGAAAACTGATAGGGAAGCCTAGGTAGGCCTACCTTTGGTGCCAGAGGGAAGCTCAAT  
CCATGCAAGCCCCAGATAATATAGAAACCTCCCCAACCTTACCCTACACCCCTCACCTCC  
CAATCCAAGCCAGTCTCCTTTCCCTGCTTTCTCAACCATTGTTGGACCTGCTTGGGAAGCTC  
CCTCTGCTCTCCCTAGAAAGCTTCATTATGTGAGTGATACATCTTTTATATCTTCTTGCTGT  
GTGTGTGTGGTATCATCAGCCTCAACATCTGAAGCAAATGTTGGGTGGGGGTN

**>349**

GTCCGGGCTGGGTCTCCGAACCTGAAACCGGGAGCTTCCTGCTCGTGTTGCTGTT  
GAGAAGCTACCCGCGGGGTTGTAGACCTCGGACCTCATGGCAGAGATAATTCAGGAACGCA  
TAGAAGATCGGCTCCCGGAATTGGAACAGCTGAGAGCGCATTTGGAATGTTGAGTCATGCGGA  
GATTAAGGCTATCATTAAAGAGGCTTCCGATCTAGAGTACAAAATCCAGAGAAGAACCCTTTT  
CAAGGAAGACTTTATCAATTATGTTCAATATGAAATTAATCTTTTGGAGCTGATCCGGAGAAG  
AAGAACACGCATTGGATATTCATTTAAGAAGGATGAGATTGAGAATTTCTATTGTACACCGGGT  
ACAAGGTGTTTTCCAGCGTGCCTCAGCAAAATGGAAAGACGATGTTCAACTTTGGCTCTCCT  
ATGTGGCTTTTTGTAAGAAGTGGGCTACTAAAACTCGAATTAGCAAGGTATTCTCTGCCATGT  
TGCGGATTCATTCAAACAAACGAGCTTTGTGGATTATGGCAGCCAAATGGGAAATGGAAGAT  
CGATTGCTCTCAGAAAGCGCAAGGCAACTATTTCTTCGCGCACTGCGCTTTTCATCCGAGAGTG

Table 4

CCCCAACTTTATAAAGAATACTTTAGGATGGAGCTGATGCATGCTGAAAACTGAGGAAGG  
AGAAGGAAGAATTTGAAAAAGCCAGTATGGATGTGGAGAATCCTGATTATTCTGAAGAAATC  
CTTAAGGGCGAGTTGGCATGGATCATCTACAAAAATTCTGTAAGCATAATTTAAAGGTGCAGA  
ATTTACAGTGTCACTGCTTTGATTGCACAGCTATTTGACTTTGCCAAAGATCTACAAAAAGA  
GATTTATGATGACCTTCAGGCTCTACACACAGATGATCCTCTCACTTGGGATTATGTGGCAA  
GGCGAGAATTAGAGATTGAGTCACAGACAGAAGAGCAGCCTACAACGAAACAAGCCAAAGC  
AGTGGAGGTGCGCCGGAAGGAGGAGAGGTGCTGTGCTGTGTATGAAGAGGCAGTGAAGAC  
TCTGCCAACAGAGGCCATGTGGAAGTGTACATCACCTTTTGTCTGGAAAGATTTACTAAGA  
AGTCAAATAGTGGGTTCTTAGAGGGAAGAGGTTGGAAAGAACCATGACTGTATTCAGGAAG  
GCACATGAACTGAAGCTTCTGTGAGAATGCCAATACAAGCAGTTGAGTGTTCGTTGCTGTG  
TTATAACTTCTGAGGGAAGCTCTGGAAGTGGCAGTAGCTGGAAGTGAATTGTTTAGAGACT  
CTGGGACAATGTGGCAGCTGAAGCTGCAGGTGCTGATCGAGTCAAAGAGCCCTGACATAGC  
CATGCTTTTTGAAGAAGCCTTTGTGCACCTGAAACCCAGGTTTGTCTGCCATTGTGGATTTC  
CTGGGCAGAGTGGAGTGAAGGTGCCAAAAGCCAAGAAGACACTGAGGCAGTCTTTAAGAAA  
GCTCTCTTAGCTGTCTAGGTGCCGACTCAGTAACCCTGAAGAATAAGTACCTGGATTGGGC  
TTATCGAAGTGGTGGCTACAAAAAGGCCAGAGCTGTGTTTAAAGTTTACAGGAGAGCCGAC  
CATTTTCAGTTGACTTTTTAGGAAAATGATTGAGTTTGAAGGAGCAAGAATCCTGCAATA  
TGGCGAACATAAGAGAATATTATGAGAGAGCTTTGAGAGAGTTTGGATCCGAGATTCTGAT  
CTTTGGATGGATTATATGAAAGAAGAATTGAACCAACCCCTTGGTAGACCTGAGAACTGTGG  
ACAGATCTACTGGCGAGCGATGAAAATGTTGCAGGGAGAGTCAGCAGAGGCATTTGTAGCT  
AAACATGCTATGCATCAGACTGGCCATTTATGAAGATGAAGAATACAGTCAGCTTTGTGAAAT  
AGTATTGCAAGCAAGCCCCGTGGGCAAATTTGTATTGAGTCCATCTGTAATTTGCTCAGTGA  
TGGCAGACAAGATGGCTGTCTGGTTTTGAGACACACTTTAATTTTATGTTAACTTGTAAATC  
TTTTTAAAAATTAATAAATTTTATGATTGACTAAAAAAAAAACCTACAAACCTTCNNNNNN  
NNNNN

&gt;350

NACAGCTGGCGAGTGTACCCGTTTCTGCGAGAGAAGCTAAAGAATGCCCTTGCGTG  
AGGAAATTAATTTATGTTCAAGCTAAATGTGTTTTATGGCACTGGGAACACAAGCATTGTGCG  
TAACAAGTTCTGGTGAAATCCGTACATGGATACGTTCTCTTCTGGGGGCGGTCTCCAGTCC  
TTTCTCATGAGGGAGCACACTCCTCTGCCTCATTGCAGTGGCCTCAGGGATATGGAATTAAG  
ATCCACCTGGTGTGATGAATAAACCAGACTCTCAGCAACGCAGGAAAAAAAAACAAAACT  
GGCTGGCGATCTGGAGTAAAGGATCCTCACATCCAGTGAACCAGGAAACTCTGTGCCAA  
ATCGACGAAAAAAAAACACTGGGAGAGCCGAACTAAAAGTCTTTAGCACGGGTACCGACC  
CTAGAATTTCCAGTAGACCAGCAGACAGCCGGGAAACCAGATCCTCATCAAAGACAGAAA  
GAAAAAATTCGAAGCCAGCCTGAGAAGGGCCCTATTTCAATGCTGTTAACCACTGAGACTG  
CATCCTCAACAGTGAGACAGGATGGACCAACATACTCAAGCTCAAGGAAACATCTAACACCG  
GTCGGAACCTCATGGGATCACCGGTACCTAGGATTAGGCCATATAAAGTTTACCGTTACAGA  
ACCGCCTACTCTCATATTACGTCTCACAAATGGACACTTATCCCTACCTATCCGGACAAGCCC  
CTGGGCATAGGGACCTAGCTGACAACACGCAGTACCAAGGGCCTTAAAGCAGCCCAGACC  
CCCGTCTCGGCACAGGTGCCACATCACGAGACGCTATGGCTAAACCACAGTATAGACGGGC  
GCCCAATGAGAGGACACCGGCCGCTTGGTTGTACGGCACAAGAGCATCGCCATCAGA  
GGTAGGGCATAGAACATGACTACTACGCGGAGGGCAGCACAAACGCAACACAATATATACAG  
AAAGAATGAAACGTACAGAACTTCAGCAAGTGATCTGCTTCTTGTGTTGTCTTCTCCTGAC  
CNNN

&gt;351

NNNNNNNNNNCCGCCCGTGCTGGTCCTTATTATTGCCCGTTGTTTCTGGATGTGA  
ATGGATTACAATGTATTTTTTAGGGAAATCCTATTATTATCAATGTGACTCCACGGGGGAGT  
CCATGGTGATGATGATGAGGAGGAGGATGATGATGATGAGACACCTCTAAACTTGGAAACAA  
GTTTAAGACTTTATGAGAGAAGAAAAAATCACCAACAAGAATTGTTTGAGGAAAAATCATA  
ACTATCCTGTGTTCAATTTTTTTTTATAAACAATAAGAAAAAGTTGTTGGATTTTTTTTTAATG  
ATTTCTTTTTTGGGGGAGGGAAATTTGTTGCAGTTTTATGGTGGAAATGCAAAAACCAGAGC  
CAGGTGCATAATCTTGTAATCTGTGGATATCCCTGGAGCAGGACTGAGTACCAGTTAAATA  
CTTTTTGGGATACACATGTGAGATACCTAGTACTTGCAGAAGATTTTTGTCTCTCTTTTAA  
GTCTCTTCTTGGAAATATTGTGAGAATATTTGTGGCCATTTAAGGTTTGTGTGATTTGTAA  
AATGCATCACCAACAGCGAATGGCTGCCTTAGGGACGGACAAAGAGCTGAGTGATTTACTG  
GATTCAGTGCGATGTTTTACCTCCTGTGAGCAGTGGGAAAAATGGACCAACTTCTTGGC

Table 4

AAGTGGACATTTTACTGGGCTCAAATGTAGAAGACAGAAGTAGCTCAGGGTCCTGGGGGAA  
TGGAGGACATCCAGCCCGTCCCAGGAAGTATGGAGATGGGACTCCCATGACCACATGACC  
AGCAGGGACCTGGGTACATGACCATCTCTCTGCACCTTTGGTCAATTCCAGATTCAAGTTA  
TACGGAAGGGGGCCATTACCTCCTATGGAGANN

&gt;352

&gt;353

CGCGGTGGCGGCCGAGGTACACCCAGCTTTGTCTCCTGGCCCCAAATCTCCTTTTC  
CTTACTTTGGGCATTAAGTCTGTTGAGGTCTCACAGCCTGATGGTCATTATCCCTGAATGG  
CATAAATCAACAGGCTGTATGAGCATTGTGTGAGATTCTACATGAGGGAGAGCATTTCAAAC  
CCATGACAGATGAGAGAAGTTAGTACACTCTCACTGAAGTGGGGATGTTTGACTTAAAAATGA  
TGGACAATAAGATAGTGAGCAGTAAGTGTGCTCTAGGCTAGGCTACGAGAGGCCATGAGCT  
CCTCATCTCTTCTGTTCTGAGCTCTCTGATCCACCGCACTTGGGGCAGGGGGTGCATTCT  
CTGTGCCTCTCCTGAGTCTACTTTCTGCATCATTGGTTCTCCAGCTCACTTCCATAATGTCC  
TCCTAGGCTGCATTGGAATTGTGTGTTGTCTAGACCCATGGCCAACACTGTCATTGCCTGTG  
ANNNNN

&gt;354

ACTTTTTTTTTTTTTTTTTTTTTTGCCTTTAGAAGGTTAAAATGCCAATATAAAGCTAAA  
ACAGTAATCATCAGAGACAGCTCTAATAAGGCTTTGCTACTGTTTTACTATATAAATCTTTAC  
GTGTTAATGGAAAGAAAATTAATTCATTCTGTTACTCCATTTTTCTCTCCATATTGTATGCC  
TGAAGTGAGCTGATGAGGGGCAGAAAGATCATACAGTTAGGAATGAAGACATCAGAATGTTT  
CACTAAACAGATATTTAACTAGATACTATTATACTACTAAGAATAGCAAGAATGTCTCTCAAT  
CTGGGAATTTCTCCTAGCTCACACAAATGAAACGCACATCTCCATGAATGCTTTCTAATAAAT  
GCTTCCAGGATAGTATCATAAACAAAGTCAAATTAAGAAAAATCACCTCCATGGCATCCTGG  
TCATTCTCCATCAGCTCACCTTTCTTCTTATCAGAATCCACAACACTGCNNN

&gt;355

&gt;356

NNGTGCGCCATTGTGACCCGAGAATTTAATATACTTGTGCCCCGCGCGTGTTTTGTTA  
ACCGTCCGCCCCGAGTGTCCCTCAATTTCTACCCCTCGCCCTTAACCCAAAGCTAAATCCA  
CCATCTGGTATTCTCCCCTAGAGCACCAGATGACCATCTGAAGCTGGACAAGTGTCTCTAAC  
AATAAAACATTACTGTTTACAAAACAAAAGCACAAACATAATTATGGAATAAATAAAAAACAA  
GGGACAAACAGCCAACTGACTCTACCCACTTGGTGAGAAGTGATATACTTCAACTATTTTTT  
AATGCTTCTGAAAGTTTCTTGGCCACAGAGGACTAGGGTGCAATCATTCCCTGTGTTAGTG  
AGTTGGGTTTAAATGCAGCTTCAAATTAAGGGTAAAGGGACTTGGTGAAATGTTTACATTAAT  
ATTTCACTCCTACCCATTCTTCAGGAAAAAAGGTGAGCTCAGCAAGGCTGGATGCCATTAAG  
AGATATTTACTGTTTTCTTTTTCTATAGCTAAAAAAGCAAACTTTACACGAAGAAGCTTTGAT  
TAAGGAAATTTCAATAGATTCAATTTATAAAATTTTAAACATTTGGCACAGCAAAATTTGGAA  
AAAATGGGGGAGAAAAATAGGTCTGGTTGTTGTCCCCCTTTTTCCACCTGCTGCTGGACAG  
TGATGAGATGCTCACAGAAGAAAAAGGCCTGGCTTTGTACCAGGCTGGCGACAGGTGCTAC  
CAGGAGTGGGCTGAGGGGAGAAAACTATCTCCCACTCTTTTGGCCCAAGCAATGTCAACG  
ACTTCCACATTCCCTGGCCCACTTCTGAGCAACCCCAAGGTTGCGCTCTGTATAAGGACCCT  
CCCCTCCCAACCCCAACCCCAAGAGTGCAAGTGCAATCAACCAACAATTTACTGGTGGAATG  
GCAATCAAAGGAAACAGTTAAACACCAAAACAATTTCTTAAAGCCAAAAAATATTTTTCATGGA  
GTTGAACATTTTTCGAGTGTGTTTTTTCAAGTGTAAGCAAGTGACATTTTGTTCAAACAGAA  
GCAGCATCTAGGAATTCTGGCACTTGGGTTCTAGGGGGTTACAGGTATGCATCATGGATTCT  
TCTCCCTCGTATTTAAAAAGGCCTCGTGTTTCTATTCTGAGTTCATACCAACACCTGCTAGC  
TCTCCCTCTAGCGGACAGTGGGTGGCCAGCCAGCCTCCCTGGTTAGATTGGGCAATGCCA  
AGCAGACATCCCTCATTACCTGCTGGGCTTGCTTTCTGATTACAGAGGTAAGTCGAAGTGCA  
GAGAAAGAACTTACAAAAGCACAAACCAAGGCAGCCTGAACGGGGAGCCCTGTGCGAG  
ACTGAGTTGCTGGAGACTACCCTCTCAGTCCCATTCTGGGGAAAGGTAGGTCACTCATGG  
AATTTGAATCAAATGAGGAGGACACCTGCCAAGCAATAGTATGATGGAATCAAGTCAATC  
CCAGGCCATCTACTGTCTCCCTCACCTGCCCTAACCTTTTCTGAGTCCCTCCCTCTCTGTG  
CAAGCACTGTAGTTTAAAAAGGAAAAAACACCCCCCACCATTAAAAGACAACCTTCAAATGTT  
ACTCAGTATATAAAGTTTGCTTAGGCTAAGGTGGAGTCAGAAATGTCTCTAATTGTAGACACC  
ATCTCTGTGCCACCCCTTCTCTCATCGGATATGGAGTGATTTCTCTCTCGCTGCTGCGACG  
CAGATCTGAGCCACAGTCAGGTACCAATGTACACGACATAGGCACATGTGCAACACAAAGA  
AGGTGGGCTGCTGCTTCTCTCTGCCCCCTAGTCCAGGCTCCTTGCTTCACGTAAGATT



Table 4

AACACTTTCCCATTCCTCTGAAGTTGCTGGAAGGACATTTCCCAGGAAGAAACAATTCCTCA  
CTGCCTATAAACTGTAGTCTCATGTGGGATAGTCAATTGAACATGAGAATCAGAACAATCTG  
GGCAAATGGGTATGGCAAGAATGGGAACACCACAACAGGACAGATGCCAACTCTCATTCTG  
GCCAGGCCTTTTGGCATCTGGGTGCCTTCTGTGTCTTCTTTCCACCTCTTCCTTCAGTCTCAA  
CATCCACTTGTACCCCCAGCTACCTCCCATGTTTCCAGGTATCATTGGCTCTTAACTCCCACA  
AGCCTGCCTTTTGGCTACCCATCCCAACAATATCAAGAGGGAATGACTAAGTATCAGCTAGA  
AACTTAGCCATGTCTCAACATTCCTGGATTATCTGAAAAGCTGTGATGCCCTTTTACAGGTT  
TATGGTGACAGACCCGTATCATCTTAAAGTATGTTTCATAGTTAAGGCTTGACTTAAGAAAATA  
AGAGAACCAGACATAATGGAAAGACCTCTTCAATAATGTTGTCATGCCTCTCAGTGAACGTG  
CTCACAGTCACACTTGTTTTGGCTCCCCAAACCCACAATAGAAAAGGAAAAATGAGTATTTT  
GTTTTTCATCTGTTTTGTATTTAAAGGCATTGGGTTACTTCTCCTGCCCTCTTTTCTTCCCTG  
AACAAGAGTTTACAACCTCCTCATGGCTTCTTAATAGGTGAAGTAGGTGAAAAGTCTGAGAAG  
CTCACAGCAGGGTTTGGCGTCCCAACTATGCAGCTGAGAGGTGCGCCAGCTCCTGTGCCTTC  
CCAGCCCCACTAATTGGCAGTATGTTTGTTCATGTTTCTGAAAACATTTTCTTTAAAAAG  
GAAAAGAAAAAATGCCAAACAACACCAACCAAAAAAAAAAAAAAAAAAAAAAGAGGAAGAA  
GACAAAGAGCAACATCCAAACATTCCCCAAGCCCCACCCCAAGTCTGAGATTATCTTAT  
TCCTTCCCTGAAATAATTATAAAGAAGCATTTCAGGCCAAAATACTTAGTATTAAATGGTCTCTTA  
CTGCTCAACCTCCCAACCATGCCCTTTTCCCTTTTATGTGTATCTCTTGGAGTAAATAAATT  
CATTAATGGCTTTCCACATACAAATACAAAGAAAAGAAAGTCTGGAACCTGACTATCAT  
GGGACCAAAAAAGTATCTTGGCCCTTTGGGAGTTTCTTGTGAGAAAGTATAAGCCTCAACAG  
GAAATAGAGGCTCCTTCTCCTTTGAGTTCAATACCCTCCCTGTGTCTACTCACCAGGAAAT  
AAGTGTGTTTCATATCCACCTAATTTACAACAGAAGATAACCCCATCCCATCCCCAAAACATA  
AAAATACAAGTCTATGCCCATAGAACN

&gt;357

ACGATCTCAGCTCACTGCAACCTCTGTCTCCCGGTCAAGTGATTCTCCTGCGTTAGC  
CTGCCAAGTAGCTAGGATTACAGGCACCTGCCATCACGCCTGGCTAATTTTTGTATTTTGTG  
GAGACGGGGTTTACCATTGTTGGCCAGGCTGGTCTTGAACCTCTGACCTCAGGTGATCTGC  
CCACCTCGGCCTCCCAAAGTGCTGGGATTACAGGCATGAGCCCCACGCCAGGCCACACT  
TTTAATTAATGGAGAATTGAGGCTACTAAACACATACTTCAAGGTATGAAAGGAAATTTGAAC  
CACTGTAAAGAATTATTCTGGAGAATAAAAGGATCTGAAGGTGGCATCAAGAGAATCACCCA  
TCTCCATATATGGGAGCTACTCTAGAAAGAAATGCAAAAGGTATATTTTCAAGTAACTTTTCCC  
AACTTCTCTGTTCCCCTGACAATACTGAGATCAACAGAAGCATTGGAAGGTTTCTTTTAGATA  
ATAGTGAGAGATACAGGCAGATTGCTAGCCAAATACAGCTCTGGGTTACTGTGATAACACAG  
GTTCTTTCGAATGTATTTATTTTCCCAAATAAAAATAAGCAGGGATGGAAGTAGTTATTATGC  
ATTTTTCAAATTTCTCCTTTCAACAGTCTATATAAATGTTGCAGAATGCTAGACTAGGATGAAAA  
GTAGGAGTCATGAGAACTGCAGAAGCCTGAGATCCTAAAGGAAGGTGACCATCTGACTTGG  
CAATGTAAGACACACACGTTAGTGTGGGGGCACAAACGTGGAATATTAGGAGAGAGCTGGTT  
CCAGCACCAATCCAGAGTCACTCGGGGAAGGAGGTATGGTGGCAACACTTTATGCTTAATA  
TTCAATTCTGCTCCAGTAGAACATGGTACCTCGGCCGCCACAGTTCAAAAATTATCTTTGAT  
TCATTTTGTTCCTTCTCTAATATGTCACCAATTCTGCTGATACATTCTTTGTAATCTCTC  
CATCTATTTTAACTGTTATTCACCTGAGCTACACAAACATTCTCTGCACAAGGAGTATTCCA  
CGTGCTGAAAAGACAGAGGATTAAGCCCTCCTTGTGGAGGCATTACAGTCTGGTTTTAATA  
CACAAACCAACAATTATAATACACAGGGATAAAAAAGTAGAGGCATTATTGCATACCTG

&gt;358

NNAGAAATTGTTTTCAAGATTGGTGCTTTTGCACCATTGATTAGACGAGGCAACCAA  
GTGCATTTATTTTGTATGCATGCCTGGCCCCAATCTGCTGAAGAAAGAAGAATAGAAGAAAA  
CAACCTGAGTAAAAGCAGCACTGGTTTTGAGTTTTCTAAGCTCAGGGTCTTCATTAGAGACC  
TCTGGAATACATTAAGGATGGTGGGGGTAGATAATCCATTCAGCCAGACAAACGGGGCCA  
GCTCTTAAAAAAGAAAGCTGAGACTGAGGAGGTGAACTGAAAATAAAAAACAGAAAGTTCA  
TCCTCTAATCCCCAGTGCTGTATTTCTTCAAGGTGCATCAGGCCTAGGACAGTGGTTAAGTG  
TTGGGAGCTGGAGATCATTTTATCACTGAGTTGAGATTTCTTTTCTGAGAGTGTGGGAG  
ATTATATTTAGGGTTCATCAGTCACTGTGCAACTGATCACTAAGGCAAGTTTGCTTCTTCTA  
CTTCTTACAAAGCAAGAGGTTTAGGGGAGCTTCTTGGCCAGAAACAAAGTTTATGCTCTATGT  
GATCAGCTACATCTCCTTAGGTTCCATCTTACAGGGGCTTTTGACATGGAAGAATGTGATA  
ATTGGGGAGCAACCTTCTGAGAATTCAAGCTTTGAAGTAATTCAAAGACAGTTTCTTAGCACA  
CACGTTAACTCCAGACACAGCAGTGGTGGGTGCCTCCATTGAGGTTTCCGTTTTCTTCTG

Table 4

TCCATCAAGGGCCCAACATCCAACCTGGTCCCACAGTGAGCAGGGGCAACTCTTGCTTCTTC  
AGCATCTGGCCACTTCGTTTTCCATGGTAACTGCCACGTGTACTTTTCTAGCAGTCTGTGGCC  
ACTCCATACTCAGCTGAAAACACTGTTTCAGCCCCCTCTCTGGTGACCTCAGCCTTCTCCAG  
GTGTATCTCTTGATGATCTTGGAGACCAGCAGCCACAGCTGCTGCTACTCCTGCAGGAGACT  
GTCAGGCTGTGGTGGGGGGCAGGGGTGTTGGAGGAGAAGTTGAAAATCCGTGTGTTCTCT  
GCCCCCTCTGCTCCTCCATCTTAGCTTCTGGAGGAGTTAAGGCACCAAGGGCACCAGTCAAG  
GTTGGCAGTTTTGCTGCCCTTGCCCAAGCCTCCAGCAAACTAGCTGGTCCCCTGCTTGTCT  
GGGTCCCAGCCAGGTGTGATTTGGTTGTTGATTAGTAACCACACATTGTTTTCCCCACCTTT  
TTCATTAGTGGAGGTTTGTATGTGTGTTTGTGTTTGGAGACAGAGTCTCACGCTCTTTTCAGA  
CTGGAGTGCAGTGGTGCGATGTCAGCTCACTGCAACCTCCACTTCCCGGGTTCAGACGATT  
CTCATGCCTCAGCCTCCTGAGTAGCTGGGATTACAGATGTGCACCACCACACCTGGTAATTT  
TGATTTTTAGTAGAGATGGGGTTTACCATATTGGCAGGCTGGTCTCAAATCCTGGACTCA  
GGCGATTGGCCACTTGGCTCCCAAAGTGCTGGGATTAAAGGTGTGAACCAACGTGGCCTGC  
GCCATTAGTGGAGTCTGATGGGCCGGGCTCAATATTATTATCATGGAAGAGACATCTTGGT  
TACCTTTTTCAACAACCTCCTTCATGAAGAAGGGAGGGGGGCGACTCTACATCGACGACAATG  
GTCCATGGAGAAAATGGGCGGAGTACACATTTGGGCGGTTTTAGCCCCCTTTTGTAAACC  
CTTTCAGTGGGTATACCGCGGAGAGTATACCCCCCGGGGCAGCGTTAAAAGAACCGCCC  
CTTGTTGGCGACAAGANN

&gt;359

NAGTGTCTTTCTTCAGGGGCCAAGGTTGGACCCAGAAGTGCATGGGGTGCTTGGTG  
TCGTTCAGTGATGTAGTAAGGATACACGGTTCAGACACGGCACAAGAAATGCCTTCCTTGG  
CAGTTCAGCACCTTTCTACAAATCTTTATTCTCTACCATTCCCGGAGTAATAATCCAGTTG  
GAGCAGCAGTGATGAGAAGAGGGGATCGACACGTTCCGATCACAACACCAGTACCTGCCCC  
GGCGGCCGCCAN

&gt;360

NN  
NN  
NN  
NN  
NN  
NN  
NNNNNNNGNNNGNNNNNNNNNNNNNTNNNAGNNNNNNNGGNNNNNCNNNNNTTTGCCNNTTAN  
CGGTNAACCCNNTTGGANNCCGANTNCCCCCCCANCNNAANCTNTNAACCNNTNNNGTGAGG  
GCGGGTTGATTTTCTCACTTGGACTGGTTTTACTTCCCGACTTCTGGACTCATCTTTCAAG  
AGGACTTTAGACTAATTGCAGATAATTAAGAGAATATGCCCTTCTGCATCCTGTGATACACTAC  
TGGATGACATCGAAGATATCGTGTCTCAGGAAGATTCAAAACCACAAGATAGGCATTTTGT  
AGAAAGGATGTTGTCCCGAAGGTACGAAGGCGAAATACCCAAAAATATTTGCAAGAGGAAGA  
AAACAGTCCACCAAGTGACAGCACTATTCCAGGCATACAGAAAATTTGGATACGAACATGGG  
GTTGTTCTCATAATAATTCAGATGGAGAATATATGGCTGGACAGCTAGCTGCTTATGGCTATA  
AAATTACAGAAAATGCATCCGATGCAGATTTATGGCTCCTGAACAGTTGCACTGTAAAAAACC  
CAGCTGAAGACCACTTTAGAACTCAATTAAAAAGCTCAAGAGGAGACAAGAAAATCGTA  
CTGGCTGGATGCGTTCTCAAGCCCAGCCTCGCCAGGACTACCTTAAGGGACTGAGTATCA  
TTGGGGTTCAGCAGATAGATCGTGTGGTAGAAGTTGTGGAGGAGACAATTAAGGTCACTCT  
GTGAGACTGCTGGGTCAGAAAAAGGATAATGGAAGGCGGCTTGGGGGAGCACGATTGGATT  
TGCCGAAGATTAGGAAGAATCCACTGATAGAAATCATTTCCATCAGTACCGGGTGTCTCAAT  
GCTTGACCTACTGCAAACTAAACACGCCAGAGGAAATTTGGCCAGTTATCCAATTGATGA  
ACTAGTAGATAGAGCCAAACAATCTTTTCAAGAGGGTGTTTGTGAGATATGGTTGACCAGTG  
AAGACACGGGGGCTTATGGCAGAGATATTGGCACCAATCTCCCCACACTCCTGTGGAACT  
GGTTGAAGTGATTCTGAGGGAGCAATGCTGAGGCTTGGCATGACAAATCCGCCCTATATTT  
TAGAGCATCTGGAGGAAATGGCAAAATCCTTAATCACCCAGAGTCTACGCTTTTCTGCAC  
ATACCAGTCCAGTCTGCCTCCGACAGCGTACTCATGGAAATGAAAAGAGAATACTGTGTGGC  
TGACTTCAAAAGAGTAGTGGATTTTCTGAAAGAGAAAGTTCTTGAATAACTATTGCTACAGA  
TATTATCTGTGGTTTTCTGGAGAAACAGATCAGGATTTTCAAGAAACAGTGAAACTTGTGTA  
AGAGTACAAATTCCTCAAGCCTGTTTATTAACCAATTTTACCCAAGACCAGGAACCTCTGCTGC  
AAAAATGGAACAAGTTCCAGCAAGTGAAAGAACAAAGGACAAAAGATCTTTCTCGGGTGT  
TTCATTCTTACAGTCCATATGATCACAAGATTGGTGAAAGACAACAAGTGTTAGTAACAGAAG

### Table 4

**>362**

ATATCCCTTTATAGCTGTTATTTTTAAATCCAGGATCCAATCAAGAATTATACGTTATA  
TGTAGTTGTCATTCTCTTTGTTTCCTTTAATTGATTAGAGTTGCCCTTTTGTGTGTGTCTGAG  
TGGTGGGTGGTGGGGTGGTGTGTTGTGTATGATGTGCAGTGTGTGTGTGTGTTGTTCTTTC  
ATGACACTGACATTTAAAGAGGTCAGGCAAGTTTGGAATGCCCAACATCTAGACTTTT  
TTACTGATTGTTTCTCTATTACGAGATACAGGTTTACTTTTTTTCCCAAGACTGCTACATGTG  
TGATGTTGTTTCTTACTACTGCCTCACCTCAGGAAGCACATAATGTCTACTTGTCTCTTTTCT  
GATATTAGGACTGATCAGGTGTTGTCTGCCTGATCCAATCATTATCAAGTTCATAATTCAAT  
ATTAAGCTCTGAAATTCAGGACACATACATTTATAGAGTGTGAGGCTGTGCATACGTACATTC  
ATCCCTTAATGTTCTCAAGGAGGCCAGGATCCCCAAAATATTAAAGCAATGCAGTCAGAT  
GATATAGCACTAGCAAAGCATTATCCCTTTCCATATAACAGGAGGAGGAGGGAAGAAGGAA  
GTTTCCATGTGCAGGCAATACGTGAGAGCATGGGCAAGTGAGGATTTGTATGCTCCCTGTA  
GCCAGAGGTGAAATATTCAACGCTTTTATTTTTCTCCCGTCTTCAATGACCTCCCATTGGA  
CCCATAGTTTATTTATAGAGGACACACTCCCTAATTGTGAGTGGTTTTTTGGGAAAAC  
CTTAGATAGTACAGTGAGTTGACCCCTCAAAGGATCACAAAGTACATAAACAGATACAAAG  
TATTTATGTGGTATTAATAATTCATGGTGATGGTGCAAGGGAGAGATGATTAGGAAGAAAATG  
TCTAAACGGCTGTAATTGAGAAATACTGATCTAGAGTCATTTCTGCTTCTTAAATTGTTCTG  
TTTCTCTTCCCTGGGTATTTTCTCATTTCCAAAGACCCAGAGTCTCAGAGCCAGTTAAGTGG  
AAGAACTTTGAGAGGTTTTCTTAATCAATTCCTTCTATCTCTCAAAACATGCCAGTAACCTCT  
TGGTGAAAAAATCTATACTCTCTCACAGTTCTTCGGGCATGGAATTTCTATAGCATTTCTTG  
GTATAACCAACCCACTGAACCCTCCACAACATCTTGAATTCCATTCAACTCGAGCTGAAGTAT  
TCTTTTTGAGTTTCAGTATATCTTTTCTAGTGTCCCACTTTTAGAAAGGTCAAAGATGATATA  
TAATAAGTGAAAAACAATTAATCAGAGCTTTATTTGCATATCCATTAAATATCTGAAGGCTAT  
TACCAGTTGTGCTTCAGCCTCCTTTCCCTTGCAATTTCCCAAGGTGGCATCCTCTACGGAG  
TCTTGTGTGCTCATTGTTGACCACTGATGTAACCTCAACGTGAAACCTTCCCAAAGCTCTCCAC  
ATCACTCTCTGTTATGGCTGTGACCAGCAGTGAACATGAAAAGAACTTATTTTCATGCCTTCTC  
CAAACATATATTGTTTCTTGTAGTCCAGACCTGCTTTTTCTACATTTATAGGTTTTCTATTTT  
AATCGCCATGCAAAATCTTTATCATACTCAATCATTTTGGTTTATCTTCTGACTCTTTACCT  
TTAACATCCCTGTTAAAGATTACACTGTTGTTGTTTCAAAAAAAGAAAAAACCTTAAT  
GGCAAAACATTAAGGGACTTGAATAGAATTACACTTATCTTTTTGTGCTGATTTATGTCAATCC  
ATCATTCTGGTTATTGATGGAAGCAAATTGCTTCTATGTTCTCTAAACCTTATGTCCCTTCCA  
TACTCCATGAGTACCACACTGGGAGAAAAACAAAAGCAAAAAGATTGTGGGAAAAGTATAGCC  
ATTATCTTTGAGGAAATGTGTACCAAGGCACAATCATTTAAAGGAGATTGGAGGCATCATTTG  
GTTGACACTGTTGTCATTCTGTTCTGATCATTTTGACCTTGAGGAAATTTGGTGATTCTCTC  
CTAGAATTAGACAAACAAAGTGTGTTTGGAAATAATGATTGTTTTCTGCTTAAAAAATATAT

Table 4

TAACAGAAAGCTTTTATAACAGGCTGTTTCCCTCTGGACAGGTATTAATTCTGAGTAAGAATT  
TTCAGTGACTACATAAGGATTTGTGTAACCTTATGAAGGAAGAGTCCATTTCTAATCAAATAATT  
CACCTGTTTTACTAGCTTATAGTGATCTGATTTTCAAGATTTTCTGTATCTTTTTACATACATC  
AGAAAAAGAAATGTTTACTATATTTTTGGTTCCATTTATGATTGTATTAAGCATTTGACTATAA  
GGAAAACTAACAATTAATCAATTAGAAAAGCAACATAAAATTAATGATATTTAGGAAATCAG  
TTATATGTGAGCTTGGGTATTCAAATGTCACAAATAAAAAGCATATAACCAAAAAATAGTGATA  
GNN

&gt;363

TTGGAGCTCCACGCGGTGGCGGCCGAACGTTGGCTTATCATAATATTGCTGACAGC  
AATAAACTGCCACATCTTCAGCCTGCAGGCTGCTGGTGGTGAGAGTGAAATCTGTCCCAGA  
CCCCTGCCACTGAATCGGTCAGGACCCCGGATTCCCGGGTAGACGCCCAGTAAATGAG  
CAGTTTAGGAGGCTGGCCCGGTTTGTGCTGGTACGCGGGAGAAATGGCTCGCAAGCTGACT  
GTGAGCTCGGAAATCCTTTTAAAGAAATTCAAATGTCACCTTTTATTTGGTTTAAGTACCTC  
GGCCGCCACCGCGGTGAGCINN

&gt;364

&gt;365

NINGAGAGCGACGCGACATGTGGAGGGTCGAGAGGTTCAAGATGTTGGATGTGGCG  
CCCCCCCCGATTGCTGTTGAAGCATTGCCGGCGGGGGCACGGATTCCCGCTGTGGAAGG  
CTGACCAAGGCATACTGAAGCCGGGAGTTGAGACCGCCTGGCCAACATGCGAAACCCATTG  
GTCTGTAAGATATACAAAAATTAGCCAGGCATGGTGGCGCAAGACAGTAGTCCAGTACTCG  
GGAGGCTGAGACAGGACAATTGCTTGAACCTAGGAGGTAGAGGTTGCAGTAAGCCAAGATC  
GTGCTACTGCACTCCAGCCTGGGTGACAGAGTAAGACTCCATCTCAAAAAAAAAAGAAAAA  
ATTGACTTTGGAACCTCAGATTACATATCAGTTTGCATACATGCTAAACAGAGAAATGCTCTC  
AAAATTCAGTTACTAAAAATTACTGATATCTCCATGATTAGAACCACACTGTGGTTGTGTG  
TAGTCAAAGGAGGAGAATTTTAAATGCTATATAAGCATAACTGATAACTGCTATTACAAATAA  
TATCCACAAATTTGAAAAGTTATTAGAGGAAGAATTTTTTCTTGTAAATTTCCAGGTGTTT  
ATATTAGTTGGGCCATAGTGAAAATTACATGGAGGAAAGAAAATAGGAAAATAAGTCACAGA  
AAAAGAAAATCAAAACAAATAGAACTCTGGGGAACAAGTGAGTTAATTACCGCTCATGTCTC  
CCATCCGGTTCTCTAGCTCCTTGAGGGTTACTGTCTAATGCTCCACAAAAGTGCCCTTACCCA  
GTGCTTGGTACAGAGAAGGCACTGAATAAATTCACAAAGGCCGATTGGTTACCCATTCTTT  
TAGAGACAACAGACACGCAATTCTGACGAGGACTCCTGTTACTAAAAGACACAGCCTCTGAT  
ACAAGAGAGATATCCCTTTGACTAAAGCATTACCAGGGTCCCCAGGGCCCCCTCCCACTGG  
GGCGGTAACACTACGGGTCTCCCCACCATATATTCCATGTCAAAGTATCTACACAAATACAG  
AGGAAATTAAGCAAGTAAATACGGTATGTAATTGTTATCATTTGTATTTCTTTAAGGCATTTT  
ATAAATATTTTAAAGTAAACAATATGAGTGAGTGCCTTTCATTAGCTATGATCTTTTACTACTGA  
TATATTTTGAATGATCTGAATAAGCAGGTTACTGTGGAAGCATATAACATAAAACAGCTAATA  
TGATTCAGTGGGTACAACCAAGTGTCAGTACTTGATACATAACTCTATCCCATCATTCGCAA  
TTACAGGCTGCTGTGTGGAGTATTAACATGCATCTTAGTTTTATTTGTACACAATGGTCCA  
AATTTTCACTTACATATAACTTTCCAAGTGTGAAGTGTGTTTGAAGCAATTATGTTTTTCAATTG  
GATTTTTTGGTGTGTCTATTTCTTCTATAAAATCTCTTCTTTCTTTGTTTTTTGTTTTTGT  
TTTACATGGGATACAATAAATCGGACGCINN

&gt;366

NGAGCTCCCCGCGGTGGCGGCCGAGGTAATTTGCATCCTTCAACCCAATCAAGCTG  
ACACTCAGTATTAACCATCACAGGCGTGAGGACAGATAGCTGCATCCGCAAAATAGAGAAC  
CAAGAAATAGTCCACACCAAAGTCAGGATCAAATGATTCTGGACAAGCCACCAAGTCAAT  
TCAACTGAGAGAAAGAAGCCTTTGCACCAGTTGGTGTGGAAGTTCTGGATATGCACCTGGA  
TAAGTGAACCCCCCTCCGTCAACACACACAAACGTTAATTTGAGATGGATTGCAACATAAA  
AGCTAAAACCATTAACACTTCTTGAAGGTAACATAGAATATTTTGTAAATGTTATGATAGGCAAA  
AGTCTCTTAGGACACACAAAAAATTAACCATAAAAGAAGAAATGGCTGGGTGCAGTGGCT  
CACACCTTTAACACCAGCATGTTGGGAN

&gt;367

gTCATCAATAATATCCTTGTGTCTCAAAATCTCCATGGTGAATGTCTTTTGAACCTTGAA  
GCTGAGCAGAAGTCTGGTCTTGCTCAAGCCTGATGTCAACCCAGAGACATCAATTTTTTTCT  
GTTTCAGTAATCCAGGATAACTCAGCATCAGCTGCTTGGTCAAACCTGCTGTGATCGCAGAAT  
GGCTGCATCGATCTCCTCCACCTTCTGAGTGATGGTGTGCTCGCTCACTAATCGGTAGCGCTCAT  
TGCTCTCAGCTACCATTTTCTCAAGTCCTTCTCTGCCCTCCATGGTACCAGTTCAGCAAG

### Table 4

NNNNCGCTCTTGTTGCCCAGGCTGGAGTGCAATGGCATGATCTTGGCTCACCACAA  
CCTCCGCCTCCCGGGTTCATATGATTCTCCTGCCTCAGCCTCCCGAGTAGCTGGGACTACA  
GGCATGCGCCACCACGCCCGGCCAATTTTGCATTTTCAGTAGAGGCGGGGTTTCTCCATGT  
TGCCCAGGCTGGTCTCCAACCTCCCGACCTGAGGTGATCTGCCACCTCAGCCTCCCAAAGT  
GCTGGGATTACAGGCATGAGCCACCATGCTTGGCCAAAAATAAGAACTTTTAAGACAAACC  
TGAAATCCCGAGTAAGAGCCATCTTTGACTGGCTTTATGTTACTCTTCAGATACCGTCTAA  
AGGCTCAAGACCAGCCAGATTTTAGGTAGGGTTTTTGTGCAAAGTAGAAGCCCTACTGTCT  
CTAGAAAAGAAACGCAGTACTTAGGGATCAAATGGGGTGGCAGTGGGGAGGAGGAATAGTC  
ATAAAGATCAATGGTCATTAAAATTCATTCCAAAACAAAACCTGCATATATACTTTGGAGCTCCA  
CTTCTTTGTTTTCGTAAATAAAAGAAACTAATTGACGAGTATGTACAATGTGCCAGGCACCTT  
ACAAGACACAAATATGCTCTTATAGGCTGGGGAAATAAGAAAATATGAATGAAGCAACCCAG  
GCTTTGAGCCAAAGAATTACCTGGGGTCCGTGAGTTTCAAATCTGAAAATTTCTGTCTTTCA  
AGGTCAGCATCGCCACAAACCGGCCGTTCTGAAACACAGCCACAAAGAAGACAATTCATTT  
TGTGGCCTTCTTTTGTCTATCAAATACAAACGATCTTTTTTTCAAACAGGAAAAGGGCTTTC  
AAGAAGATATGTGTGGCCTGGAGTCCTTGTGTGTCAGTACTCATAAAAGAACCATTCACTCTTTA  
GTCCTTAGCACTTTCCTCAAATTAAGAAATCAGGCCTGGAACCTCTGGCAGACAGGGTCTCTGG  
AACATAAGAACGTAAACTCCACGAGGGCAGAGGGTTTTTTGGGATAAGTTTAGTTTAGTCTA  
GTGCTTTGAACAGTGCCTGGGCACATACAGAGGTGCTCAAAAACATTTTGTCTGAATAACAGCA  
CAGACCTAGATAATTTCCCTTACATGCAACCTTTTTGGAAAGCCATAAAAATGTGAAGGAAAGT

Table 4

TGGAAGGGCTAAGTTGGGGGGTTTCCAAAGAGCTTTATAGTCTCATGAATCTTCATGCAGTA  
CTACCACTGGAACTCCCATTCCAGGCAGCTTTTAAAGAAAGAAGCAAGATGGCTATCATG  
TCCTAATGTAAAAACAGAAATTTAATTAAGAAAAAAGCAAGAGATACGAGTCTCCCTTTCC  
AAGTACAAAAACAAGCACCCCACTCCCTCAAGAAAAACAGAAGGCTCAATATCTTTACCAA  
CAATTATTAGAGCCACAGAATACATTCCAAAATGTCATCCAGAAGTTGCTGTCTTAAGCAGCA  
GGAAATAATCTAATGACATTATACCACATAAAAAATATATTTGCCTGCTCCTCTCCAGTAGAAT  
AGTGAGATCCAACCACTTGGGAGACTCTTCCTCCACCCCACTCCCATTACATAGAGTGTA  
TGCTGCAGGGAGAGGAAGTTAAACATTACTTTCAGGAAGAAGGAAGGGTGTGGTTTTACTGC  
TAACGGACGCGTGGTCGACTCCCTANN

&gt;369

ACGCGGGGGTTTCCGGTTTGGGTGTGGCCGCATGGCGTGCTGGGGTGCAGGTGG  
CCGAAGGGGGCGTTACTGTTGCGACTGGCATCCGCATCCGGCAGATGTAGATGGAACCAA  
GTCCAGAAGTTACGCGTCACCCTTGCTCTACAGCCAAACATGCAGGACTCTAGTAACCCGC  
GAAATGATGGGATAGCGTTGCAAATCCTTAAAGAGTCTTAACGGAGAAGGAAAAATGTTAC  
ATTGTCAAAGTCCCAAAGCCTTTCAGCCTGAAGCCAGGAACAATTGTTCAAAGTTTCTTTGGA  
ACATCAAGGAAGGAAATCCAGATTTTACTTTAAGTGCAATGGGGAGTCATTAAGGATTTTGTG  
TAGATACAGCAAAAAGACAACAATCTTCAAGCCACAATGGCCCTCACCAGAACCCAGCCATG  
TGGTCAGCCTGATCTCGGACTTCACAGCCAGCAGAATGTGAGAATTAATCTTATGGGTTCT  
CTTAAGCTGATAAGCAACNNNNNNNNNN

&gt;370

TTGGAGCTCCACGCGGTGGCGGCCGAACGTTGGCTTATCATAATATTGCTGACAGC  
AATAAACTGCCACATCTTCAGCCTGCAGGCTGCTGGTGGTGAGAGTGAAATCTGTCCCAGA  
CCCGCTGCCACTGAATCGGTCAGGGACCCCGGATCCCGGGTAGACGCCCAGTAAATGAG  
CAGTTTAGGAGCTGGCCCGGTTTGTGCTGGTACGCGGGAGAATGGCTCGCAAGCTGACT  
GTGAGCTCGGAAATCCTTTTAAAGAAATTCAAATGTCACTTTTTATTTGGTTTTAAGTACCTC  
GGCCGCCACCGCGGTGAGCNNN

&gt;371

ACGATTATTTTCAAACAAGCCTACGTCCCTGACTAACCGAGTGGAAGGTGTGAGTGG  
CACTACAAATTCACAAAAGAACTGTAGCCTCAGATAATCAAAGGAGAGAAGGTGAGATGCAA  
TCACTGATGCATGCTAGTAATTCTCAAACCTTCGTTTTTCAGAAACGATTGGATTTTCAGATAG  
ATTTGCAGTAAGAGAATAACAAGTCTTTATTTTTTTCATCCCACTTCTTCTTGCACATTTTTCT  
TTCTAGCTATATTTAATATCTGTTCTCCCCACACACTTGCTAATCTACATTTTACAATCTTCTT  
CCACTTCACTTTGTCTGCAAAGAAATCTACCTGGACAGAATAGCATCTTTTTTTTCCCCCTG  
ACCCTTGGCATTTCCTCTCCCTCCAACCTTCTGCCTGATCCTAGGATGGACTCTCTCATCCCT  
CATTCTCTATCATTAGCTCTCAGGCTGCCCTTCTGCACTTTACCTTCCCCCACACCTTCTTA  
CAGGAAAGCAGAATAGAAAGGCATCAGTGAGGGATGAACAGGAGAGTGCCCTTGAGAGAAGA  
TTCCCAGGAAGACAGGGAGAGCCAGACAGTGGACTGGTTGCAACCCATGTAGCCGAATCAT  
AGTGCTCATTGCTGTGGAGGCTCTGGTCTGTCTAGCCACACAGACCAGTGAAGTGAGGGGT  
ACATAGGNN

&gt;372

&gt;373

ACGCGGGGGAAGAAGAGGAAGAAGAAGCAGAAGGAATGGAAAGCCTGGAGAA  
AGAGGATGAAATGACGGATGAAGCAGTTGGAGACTCTGCTGAGAAGCCTCCTTCTACTTTTG  
CCTCACCTGAGACTGCTCCAGAAGTGGAGACCAGCAGAATCCACCAGCCTGTGAAACAC  
GAACCTTCAATCAAGAAAAGACCTTTGATCAGGAGAAGACTTCTCGTCTCATTTCTGGGGA  
CACATTGAGGATTTCTCAAAGCAGGTGAAGGTACGCTCGAGCGTGGTCATTGAGGACAAG  
TCGACGAGAGATCCCGAGTACATCTACAGTCAGCCTTACGTCTGCAGGTGTACCCAACAGC  
TCCGAAGAGACAGCGACCATCGAGAACGGGCCATGATGACGATGGCGGTTTTGTGCAAAAAG  
AAAAGGGGGAAATGTGGGGAAAAGCAAGAGAGATCAGATTGTTACTGTGTCTGTGTAGAAA  
GAAGTAGACATGGGAGACTCCATTTTGTATGTGTTAAGAAAAATTCTTCTGCCNN

&gt;374

ttaacttttaactttttgttaaaagctaagacacaaacacacagtttagcctagacctacaaaggGTccGGATCATc  
catGTCACTGTCTTCCACCTCCATATCCTGTCCCActGGAAGTCTACAGGGGCAGTAACCCAG  
GCGGAGCCATCAGCTCCTATGATCAATGCCTTCTTCTGGATACCTCCTGAAGGACCTGCC  
TGAGGCTATTTTACAATTAATTTGTGTTTTAATAAGTATAAGGAGTACGCGGGGAGCACCATG  
TCTGGTTTGTCTGGCCACCAGCCCGCGCGGCCCTTTCCGTTAGCGTTGCTGCTTTTGT

Table 4

CCTGCTCGGCCCCAGATTGGTCCTTGCCATCTCCTTCCATCTGCCATTAACTCTCGCAAGT  
GCCTCCGTGAGGAGATTCAACAAGGACCTGCTAGTGAAGTGGCGCGTACGAGATCTCCGACCA  
GTCTGGGGGCGCTGGCGGCCTGCGCAGCCACCTCAAGATCACAGATTCTGCTGGCCATATT  
CTCTACTCCAAAGAGGATGCAACCAAGGGGAAATTTGCCTTTACCACTGAAGATTATGACAT  
GTTTGAAGTGTGTTTTGAGAGCAAGGGAACAGGGCGGATACCTGACCAACTCGTGATCCTA  
GACATGAAGCATGGAGTGGAGGCGAAAAATTACGAAGAGATTGCAAAAGTTGAGAAGCTCA  
AACCATTAGAGGTAGAGCTGCGACGcctagaagacctTCagaaTCTAttgttaaTGATTTTgcctAcATGA  
AGAAGAGAGAAGAGGAgatgcgtgataccaacaggtcaacaaacactcgggtctatacttcagcatctttcaatgttctgtc  
attggactagctaccctggcaggtcttctacctgcgacgcttctccacgcaagaaattgattgagtaactgaattgaggcctattcttccca  
cctgtactcagcagcagaacatcgctgggacgtgcctggctaggtctaccacgcccctcaggccgtggagcttctcgcgaactgat  
ctctgggtgggaggtcgggttcactcccacagtcagagggcccttattcggggtgcgggtgccccgtttcgcctgcaatggtccg  
attcccgttgcggcctgtgggggttctccgcccggggttcaggcgtcgctc  
>375

NNCTAATCTCTTCTAGGCCCCGCCCTTCTGAGCCCCCCTCCTTCGGCCTGTATG  
ATAGGCTCTTCTCCATTTCCGGCTTCTGGGACTCGGGTGCAACACGGCTTCCGGTGTAT  
GGCTGCTTGAAGTCCCGGGAGTCCGGTGAGGCGGCTGCAGGTCCCTCCCTGCGGAGCCGCT  
GGTCCGGCTGGCGGAGATGTGACCGCGGGCCCGGCCGCTGCCTCAGGCGTCGCGTCA  
GCTCCCGTGTCCGTGCCCTTAACCCACACCGATGGCGGGATCCGGCTGCGCCTGGGGCGC  
GGAGCCCGCCGCTTTTCTGGAGGCCTTCGGGCGGCTGTGGCAGGTACAGAGCCGTCTGGG  
TAGCGGCTCCTCCGCTCGGTGTATCGGGTTCGCTGCTGCGCAACCCCTGGCTCGCCCC  
CGGCGCCCTCAAGCAGTTCTTGCCGCCAGGAACACCGGGGCTGCGGCCTCTGCCGCCGA  
GTATGGTTTCCGCAAAGAGAGGGCGGCGCTGGAACAGTTGCAGGGTCACAGAAACATCGTG  
ACTTTGTATGGAGTGTTTACAATCCACTTTTCTCAAATGTGCCATCACGCTGTCTGTTGCTT  
GAACCTCTGGATGTCAGTGTTCGGAATTGCTCTTATATTCCAGTCACCAGGGTGTTCCTAT  
GTGGATGATACAGCATTGTGCCCGAGATGTTTGGAGGCCCTTGCTTTTCTTCATCATGAGG  
GCTATGTCCATGCGGACCTCAAACCACGTAACATATTGTGGAGTGCAGAGAATGAATGTTTT  
AAACTCATTGACTTTGGACTTAGCTTCAAAGAAGGCAATCAGGATGTAAAGTATATTACAGACA  
GACGGGTATCGGGCTCCAGAAGCAGAATTGCAAAATTGCTTGGCCCAGGCTGGCCTGCAGA  
GTGATACAGAATGTACCTCAGCTGTTGATCTGTGGAGCCTAGGAATCATTTTACTGGAATG  
TTCTCAGGAATGAAACTGAAACATACAGTCAGTCTCAGGAATGGAAGGCAACAGTTCTGC  
TATTATTGATCACATATTTGCCAGTAAAGCAGTGGTGAATGCCGCAATTCAGCCTATCACCT  
AAGAGACCTTATCAAAAGCATGCTTCATGATGATCCAAGCAGAAGAATTCCTGCTGAAATGG  
CATTGTGCAGCCCATTCTTTAGCATTCTTTTGGCCCTCATATTGAAGATCTGGTCATGCTTC  
CCACTCCAGTGCTAAGACTGCTGAATGTGCTGGATGATGATTATCTTGAGAATGAAGAGGAA  
TATGAAGATGTTGTAGAAGATGTAAAAGAGGAGTGTCAAAAATATGGACCAAGTGTATCT  
ACTTGTTCCAAAGGAAAATCCTGGCAGAGGACAAGTCTTTGTTGAGTATGCAAAATGCTGGTG  
ATTCCAAAGCTGCGCAGAAATTACTGACTGGAAGGATGTTTGATGGGAAGTTTGTGTGGCT  
ACATTCTACCCGCTGAGTGCCTACAAGAGGGGATATCTGTATCAAACCTTGCTTTAATCAGTA  
ACCTAAGGACTGTTTCTTTTCTCCTCTTCCATTTCTGGGTTATTCCACATATGAATGCAG  
GACTACCCCTTACCATTTAAGAAGGTACTTTATACATTTATTTAATCCTACTAATGTGCAGC  
CATTGCCCAAGCAGTGAAGTGCATACATTTGGCACTGAGTAGGACAAGACCTCTCAGC  
TATACATTGAGGGGTTTTAGAGCATCCATGTGGGCAACCCCTTTTTTGTGCGGGAGAGCAGGT  
GTTGCTCTTCAGTATGTAGCCTAAAAAATCTTAATTATTTATGATGATCATGAAGCAAGGATG  
AATAATATCATGTCTTGGTAAATACTAACAATTTGTTAGGTTTGGTGACATCATTTACAGATT  
ATTTCTTTATGTTGTCCAGTGGTTCTTCTTATTGTTGATATCCATAAGCTGGCACTGGATGC  
TCTCAGTAATGTAAAGTAATTGTCAAGCAGCAGTTACCTACTGTGTTCTTAACACTGAGTTGT  
GAATTTTTCTTAAAGCAGTACTGTAGTACTGAATATTCCTTTAAAGGAACTGCAGTGAGCCT  
ATCTAAGTTTTTTAAATTAAGGCTTTTAAATAGAAAGCTGATGCTTGATCTTGACAAATTTT  
ATGCTAGTATGTATGCTTGAGTGAATGTGCGAGTATGAATGATTAGAGAAAATTTGAGTCAG  
TGACTTTATAGTGTGAATCCTGTGAGCTAATACAGTCTATACTTATTTCTTCCCTACCTGTT  
CACATCCGTAAGATTTAAGATATACATTTTTGAGAGGTAGTCTGTCTGATACAATGTAAATG  
ACAAAACATAATTCTGAGAGGCCGAGAACAACTGGAGTCTAGCCTGGAGTTAAATTGAGA  
CTTCTAAAATGATTGGAACAAAGACTAAGTTGTGCCAGATGTAAATCAACCCCTCTTTAGTT  
TACTTTAGACTTTGTATTAGCTCATCTTTTTGTAGTAAATCTATAGTTTAAAGTTTCTCAAGA  
TGTGGCTCTACCTACTATGATGAAAATTGAAGTGGGTCAAAGAATTAGATGTACAGTGAAG  
GGAAAAGAAAAAATGGGCGAAGAGAGGGTGGAAAATAAAGGATTCTTTTTCTTCTT

Table 4

CTGTTTCTCGTATCCCTGCTCCCTTTTTCTCCCTCCCTCATTCTTTGCCTCTATCCTTAGC  
TGAAGACAAACTAGAGGAGCAGCATCCCAGGTAGTTTGGCTTTTGAAGTCAAGGTAGTTAAG  
AAAGGTGTAGATATAATGAGGTAGAAAGTAGAAAGGAAGAAAACTCAAAGAATTCTGAAAAG  
GATTCATAGCAACATAATGTGTCCCTGAGTAGAGGATGCTGCTATGCGTGAGTTCATGGACA  
CAAGTTGATTACATGGTTTTTAGAATTATAATTATGGATTCTTCTTATTTTCATGGTAGGTTGTC  
TTTAAAGATATAAAAATTAGGATGCCCTTTATGAAGCACTGATTATACCAAAAAAAAAAGACAAG  
TTATATACAGGTTATTAATTTTTTTATTTATTTATTTTTCTTAAGGAAAAAGTCTTCTATCTTTC  
CCTGCTGGAAGCCTCCTCATATTTCTTATGTTTGCCATGCAGGTTGCTGAGAGTCCAGTTA  
AAATTTGCATTTTACAGAATGAAATACTTTACCCCATTCAAACAATTATTGTTTGACATTTTAGT  
TATTTATAATTGTCAAATTCAGGACTCCCCTTTAATGTTTATTATGAAACCAAATTTGGCATAA  
GGAGGCTGATTTATGAATTACCAAAGGGTCTTGTGGCATGTTCCCAATACATGCCCTTAGA  
AGGAAGAACTATTATTTTTATTTGGCCCTTTCAGGAGTTGATTATCAATTGGTTTCGTTTTCA  
AGTCACAATTCACGTGGGCAGAACCCGTATTGTGAAGACCTAAACTTTCTAAATGTTTCATAT  
GGGTAGCAGATTTTGTGGTGATTAGAAACATCAGGTCCTTAAATACGATGAACATGGGATAC  
AAAGGAATTCCTTATAAGGGCAAGTATCCTAAGTTAGCACATTTACTTTCTCTCCCTCCGC  
CCCCAAAAGAAAAATCCTTACAAATAAACTGCAGGTAGGCTTCTAAGCCTAGTCCTGCAGTA  
TGCTGCTAACATCTTGATGCCAATCTTCACAGCATTTCTTTGATTGTCTATTGCTGATACA  
TTCATACATATATTTAGTGCTTGACACTGTAGAATTTTGTACAGAAGATGGTTACTAGATTT  
AAGGGAGCTGAGGGAATAATTGATGAGCCTTGAATTAACCATGCATTTAATTAGATTTTTTGT  
TGTTGTTGTTGTTGTTTTGAGATGATGTCTTGCTGTTGCCAGGCTGGAGTGCAGTGGCT  
CAATCTCGGCTCACTGCAACCTCTGCCTCGCAGGTTTGAGCGATTCTCCTGTCTCAGCCTCC  
CCAGTAGCTGGGTTTACAGGCGCTTGCCACCACACCTGGCTAGATGTTTTATTTAAAGCCA  
GAGAANN

&gt;376

agccaaacctatcaggtatgagggaaatgatAAATGAAACAACTTTGGTAAATATTATAACTGTAAAC  
ACTTAGTAATGCACACATGGGGGTTAATTTTATTATTTTTCTACCTGTGAAGCTGTTTTAAA  
TTTTCCAAACAAAAAGAGTCACCCAAAGATCCTCATCCATCTTTCTATTCAATTTGAAAGAGAT  
TCATTTTCTCATTCACTAGTACATAGATAATCAATGTTACACACATCTTAAATGCTGG  
TTCTTTTCTCAACCTTTCTCCACAGTCTTTCTTTCTAACTCAAATATTTTCTTTGATTCA  
TCTTTTGCTCTTTGTGTAACATAGATATTTATGCAGGTGTATATGCCTCCGCCTTTAAAGCA  
GATCTCAGCCTAAATTAAGTGGGCCACAGAGACCGGGGTATCTTACTCCTTTTCTTTACTC  
AGAAGAGGGGTAACGTATGAGCTACTTGACATCTGCCTCTCACTAACAAACAGTGATGCTT  
GAGGATAACAACTCTGTCACTCACCTATTCACTAACATTGTAGAGCATGAATTAAGTGCTA  
ACTTTGTGCTAACAGCCAGAGACACAAAGACAATGGGATGTGATCTCTGTTTGCCACACA  
AACTGAGTAGTAGGTTAATATCAGGAGTGTTGCTTTAGTATTCTTGAAGCAGCGAAGAGTG  
ATATCTAACGAGGTTAGGCAGGAACTAGGTGAAGTAGGTTGGTAGAAAAAACTAGGCTAG  
GTAGGAAGAACACCTTAGAGGTACCTCTCCACACCGAGCTGGCTCCACTGCGTGCTCCCC  
TCATCCCCATGGAGCATTGCACCACCCGCTTTTTCGAGACCTGTGACCTGGACAATGACAAG  
TACCTCGccGCCACCGCgg

&gt;377

GTCCGGGCTGGGTCTCCGAACCTGAAACCGGGAGCTTCCTGCTCGTGTTGCTGTT  
GAGAAGCTACCCGCGGGGTTGTAGACCTCGGACCTCATGGCAGAGATAATTCAGGAACGCA  
TAGAAGATCGGCTCCCGGAATTGGAACAGCTGGAGCGCATTGGACTGTTCAAGTATCGGGA  
GATTAAGGCTATCATTAAAGAAGGCTTCCGATCTAGAGTACAAAATCCAGAGAAGAACCCTTTT  
CAAGGAAGACTTTATCAATTATGTTCAATATGAAATTAATCTTTTGAGCTGATCCGGAGAAG  
AAGAACACGCATTGGATATTCATTTAAGAAGGATGAGATTGAGAATTCTATTGTACACCGGGT  
ACAAGTGTTTTCCAGCGTGCTCAGCAAAATGGAAAGACGATGTTCACTTTGGCTCTCCT  
ATGTGGCTTTTTGTAAGAAGTGGGCTACTAAACTCGACTTAGCAAGGTATTCTCTGCCATGT  
TGGCGATTCAATCCAACAAACCAGCTTTGTGGATTATGGCAGCCAAATGGGAAATGGAAGAT  
CGATTGTCTTCAGAAAGCGCAAGGCAACTATTTCTTCGCGCACTGCGCTTTCATCCAGAGTG  
CCCAAACTTTATAAAGAATACTTTAGGATGGAGCTGATGCATGCTGAAAACTGAGGAAGG  
AGAAGGAAGAATTTGAAAAAGCCAGTATGGATGTGGAGAATCCTGATTATTCTGAAGAAATC  
CTTAAGGGCGAGTTGGCATGGATCATCTACAAAATCTGTAAGCATAATTAAGGTGCAGA  
ATTTCACTGCTGCTTTGATTGACAGCATTTTGAATTTGCCAAAGATCTACAAAAGA  
GATTTATGATGACCTTCAGGCTCTACACACAGATGATCCTCTCACTTGGGATTATGTGGCAA  
GGCGAGAATTAGAGATTGAGTCACAGACAGAAGAGCAGCCTACAACGAAACAAGCCAAAGC



### Table 4

**>378**

**>379**

NNCACCGCGGTGGCGGCCGAGGTACTGCTAGCCAGCCAATAAAATATAAACTCCAT  
 TTGTCCTTAGTTATATAGAACTGTGTTTCCAGCTTAGAAAAAGTCAAACCAATGACTTGTAGAA  
 CAATCTACTCTCATTTTTTATTCAGCCTCTAGAACATGGAAGCTTTAAAAGTGAATTGGCTAAA  
 TAGGCAAGACCTTGTGCCCATTAACAGGTCCTAAAGTAAACAAGAGCGGCTGGCGGCCGAGG  
 TAGCGCAACCGCAAGCGTAGAGTCACACCTGCAACAAAGGTTACAATTGTGTAATGGGCTC  
 TGTCCGGTTCTGCTTGTCCAGCTGGACCATTCTATTTCAATCTCTCTCTGAGTGTGCATTTA  
 ATTGCTCATAACAGTAGAGATCAGTTGTCTCTGGTTGCAAATCTAACATATATTGATGCAATG

Table 4

TAGGTGTATCTCCATGCATGATTACAGCTGGGTTTCTCTACGTGTTCTTGATGATCTGCAACA  
AGACATACATCGACCGGTCCACCGACCCCTTATTATGGAATCTTTGCTTTTTGTCCAGATG  
TCTTTGCTTTTCTTCAGGACACAGTGGCTTTTGACAGTTAATACACCTCACGTGCGAGTA  
GTTGCTTGACGTACCTCGGCCGCCACCGCGGGGAGCGCGAATCAGTGGTGCTGCCCCCCC  
CATTGGCGAGGGAACACCGATGGCCCATGCTTCTGGCCGTCTTTTACACACAGGAAACAG  
CNN

&gt;380

giCGACCCACGCGTCCGGAGCGCAGAAGCGGCTCGAGGCTGGAAGAGGATCCTGG  
GCGCCGCCAGGTTCTGTGGACAATCACAATGGGAATCCAAGGAGGGTCTGTCTGTTCGGG  
CTGCTGCTCGTCCTGGCTGTCTTCTGCCATTAGGTGCTGCTGCAAGGAGGACCTGTGT  
TAACCCAACTGCTGACTGCAAAACAGCCGTCAATTGTTTCATCTGATTTTGATGCGTGTCTCAT  
TACCAAAGCTGGGTTACAAGTGATAACAAGTGTGGAAAGTTTGAGCATTGCAATTTCAACGA  
CGTCACAACCCGCTTGAGGGAAAATGAGCTAACGTACTACTGCTGCAAGAAGGACCTGTGT  
AACTTTAACGAACAGCTTGAAAATGGTGGGACATCCTTATCAGAGAAAACAGTTCTTCTGCTG  
GTGACTCCATTTCTGGCAGCAGCCTGGAGCCTTATCCCTAAGTCAACACCAGGAGAGCTT  
CTCCCAAACCTCCCGTTTCTGCGTAGTCCGCTTTCTCTTGCTGCCACATTTCTAAAGGCTTGA  
TATTTTCCAAATGGATCCTGTTGGGAAAAGAATAAAATTAGCTTGACCAACCTGGCTAAGATAG  
AGGGGCTCTGGGAGACTTTGAAGACCAGTCCCTGTTTGCAGgggaAGCCCCACTTGAAGGAAG  
AAGTcTAAGAGiGAAACACATTCTGAAGGCGCTAAAAGACGAAAAGTTACAAGGACTGAAGA  
CCAAGCAACCTGGAAAGAAGTCGGCCTCTCTCTCCTGAGGAGCTGCCTACCAGAGCTTGGG  
CAGCCACCTCCTTAGGTGTTAGTGCTTAGATAATGTGTCCCATTGTTGTCAATTTCAAAGATG  
GTTATTTTCTGTTCTGTATTACCGCTGTTCTTGTGCTACCAGCATGT

&gt;381

&gt;382

&gt;383

&gt;384

NNNNNCCGGCACGGGGGGGAGGCACAGTGAGTCCACTGGGGCACGGCAGCGTCT  
AAGCCACAAGCCGACTGACATAAGCCAGGTCCTAACGGAGCCTATGTGTAAGTCCACTACT  
GGTGCAAGGTTGCACACTTCTAAGAAGAGCGGCGTGGGGGGCTCGGCGACCTTCGCTTCA  
GTCGCTCCCCCGTGCAGTCCCCTGTGCCAAGACACAGCCTGATGCTTGTGCTCCGGTGG  
GCGGACTTGGAGGCGGCGGGAAGTGAATTGGTGGCTTTGAAGGCGCGGCGAGCGGGAA  
CAGCTCTTGAGGAGTGAGACTGCAGGAGATGTGGGCCGTGCCAAAGAGATGGATGAGACT  
GTTGCTGAGTTTCATCAAGAGGACCATCTTGAATCCCATGAATGAAGTGAACAACATCCT  
GAAGGCTCGGATTTTTTGTCTGAAAATCAACTGCAGACTGTAAATTTCCGACAGAGAAAGG  
AATCTGTAGTTTCAGCACTTGATCCATCTGTGTGAGGAAAAGCGTGCAAGTATCAGTGATGCT  
GCCCTGTTAGACATCATTTATATGCAATTTTCATCAGCACCAAGAAAGTTTGGGATGTTTTTCAG  
ATGAGTAAAGGACCAGGTGAAGATGTTGACCTTTTTGATATGAAACAATTTAAAAATTCGTTT  
AAGAAAATTTCTCAGAGAGCATTAAAAAATGTGACAGTCAGCTTCAGAGAAACTGAGGAGAA  
TGCAGTCTGGATTGCAATTGCCTGGGGAACACAGTACACAAAGCCAAACCAAGTACAAACCTA  
CCTACGTGGTGTACTACTCCAGACTCCGTACGCCCTTACGTCCTCCTCCATGCTGAGGCG  
CAATACACCGCTTCTGGGTCAGGAGTTAGAAGCTACTGGGAAAATCTACCTCCGACAAGAG  
GAGATCATTTTAGATATTACCGAAATGAAGAAAGCTTGCAATTAGTGAACATGAAAGGAAAAAT  
AAAAATTCTCACAGTCAAAAAAAAAAAAAACAAATACACACCACGGGGGGGGGGGCGCGGCAA  
AAAGAAACCCCGGGGGGGCGCCAAAGTTAACAGGCCTATAACACCACGGTTTTCTCTCN  
NNNNN

&gt;385

&gt;386

&gt;387

&gt;388

&gt;389

&gt;390

&gt;391

GCATGGTGGTGTGTGCTGTAATCCCAGCCACCTGGGAGGCTGAGGCAGGAGAAT  
TGCTTGAACCTGGGAGGTGGAGGTTGCAGTGAGCGGAGATCGAGCCATTGCACTCCAGCCT  
GGGCGATGAGAGCAAACTCTGTCTCAAAAAAGAAAAAGTAAGAGTGGGGGGGATCATCTA  
TAATATCTAATTCTACCTTAGAACTTTCCTTTGGTGGTGGGGGTGGGTTCTGGGAGTTTGACA

Table 4

GATTGTTAGGTTTTGGTATAAGGTCATAAAATCCTGTGCATATGGGATTTCTGACCATTGTC  
CTGCCTCTTGCAAAATAGGTCTAATGGCAGGATGGTGTGTCATAATTAAGGCTACCAAGACTGC  
CCATTGTTCCAGGCTGGGCAGTTCATAATGGGGGCAGACAATAGTGCAAAAAAATTTTACA  
TTTTATCTTTAGAGTGTGAGGGTCAAATTGATTTCCATGGTTGAGGATGTAGCCAAGTGTGGA  
ATCAGGTGGAATAGGTGGAGAGTTGCCCATAGTGGTTTGAAAAGAGAAGAGGACTTTGAA  
AAGTGGAGGGCTCATTAGGTGACCCAAATTTTACCTGGGGCATCCCCCTTTAGGGCCCCA  
ACTTAGTCTGTGACACATCTCTGACCTTAGATGGGTGCTGGCACCCTTTGGAATGGTTCCC  
TCCATCACTGAGGACCTGACTTAAAGTTTTTCTATCTCACTTAAACAACCCTTTAACGCTCT  
CAACTTAGGCAATAATAAATTCCTTTTTCATGAATCCCTCCACCACCATGCACCACACAGACC  
ACATGCCCCGACCCTCTGACTTGTGAACCTTTTGTGCATAGCTAGGTGGGTTTTCTGTCT  
TTGCCAGTTGGGTGGGAGAAGGGAAGAATTTAGCATAAATAAAAGCAGCATAAATGCACCTG  
AAACCTGTGAGTTTGCCCTGGACGAGCTGCTGCTGCTAACTGCATCACACATAGGGATCAG  
GGATTATACTGAAAAGGACAGAAATGAGTCTTTTCCCTTTCTGGGCAGGGCAGCCATCCCT  
GTTCTACTCTTGGCCTTCAGAGGATACCAGAGAGTGGCCCCAGTCAGTTCCCTCAATTACC  
AACGAGCTACTAGGAAACGGCCGCTGAAAGACTGAAAAAGGAGAAAAGGAAAATAACTCAG  
AAAAAAAAAAAAAGGAATAGGACTCAGAAAAACAAAAACGAGGAAAAGGACTCAGGTTCCCTC  
ACCTTAACCAAGCGGTGGCAGTTAGGCACTTCCACACGGAAACCTTCCAGTTTACCAGAGA  
ATGGCCCTGGCCAGAACTTGCAAGTGTCTTTGTGCTTAGGTGCTTCCACTGAGGGTCCCT  
CAGTTGGAAAAGAAAAGATGGAGAGAGGAAGATTTCCCTGTATGTAAAAGGGGAAAAGGAGA  
AAAAGAAATCCCAAATTTGGGCCTACCTTCTCTCTGGCTAGCTACCAAAATATGTTACCA  
GTAGAGGGTCTTGACTGCAAGTTGTTTAGGTTCTTGGCATTTTGAACAAAGACTTGAAGAA  
ACCCCAGCAAAGCAATGAAAGAATGCAGCATCGAAAGAATGAAAACAGGAATTTATTGAAA  
ATGAAAGTACACTCCACAGTGTGGGAACAGGCCCAAGCAGTGGCCCAGATACAGAATCTTC  
TTGGGTCCAAATGACTACTAAAGGTTTCCCGTTGGCTGCTTGGTGTGACCTAANN

&gt;392

&gt;393

NNNNGTGATATGATAAACTGCGTCAGAGATTGTCGTGGCTGTGTCTTTGTATTGTT  
TTGTGTATGGGTATTCTGCTGTGTGTCTTGTGCGGGCTTGCCTTTCTGTGTGGTGCTTTC  
GTCCGTATGCACGGTGTGTTTTCGCGGGATGATTTGGTTTGCCTCTGTCTCGGTGAGTTTTA  
GCTTGGTCTTCTTTGTTTGGTCTGTCTATCCTCTCTGTTGGTGTGGTGTGTTGTTGTTG  
GGGGTGTGCCGATGTGTCTGAGTAGTTCCGTGGACACTCGGGCTGGCACACATGGTGTTT  
ATTTGTTGGTAGAGCTCCGAGGCTTCTCGGGAACCCAGAGCCAGTTGTGTTCCGTTTGGGT  
CAGTGTGCTAGTGGATCGCCTGGTCAACATATGGTGGAGCTCCCAAGTGTGTCTTTACGA  
TTCCCATATTCTGTCCAGAAATGTTGGTGTCAACACAGCTCGTGTTATGTTCCGACCTACTCC  
GGTGGTCTGTAGCCAGAGTTTCTCCTTGGTACCCCGGAGCAGAGTTTCCATGTGAGACCA  
AGTTCTGCACGCATGGCAGCTCCAATCCTTGGCCATAAATAGTGTAACCTCAGTTTATATAAA  
TATAAATAAACGTCAATGGAACACTAAATTGCCTGTCTTAACATTGTACATTGGGGCCTAGC  
TGCCCTTGAGGATGTCCTAGTTACACCTCTCTGATACCTGTGGAGTTTAAGCACCATTCT  
ACCGCTGTGTCCCTTGGGAGGGGGCTGAGTGGGAAGCTCTTAAGGGGAATGCTTGCTCTG  
CCTCTGTGGCTTTTTGTTTGGGAAAGGGAGTTGGGATTGGAGGATTTAGATTTGAGGTCATG  
ATGTCAGAGCACACCAGGAACCTCCAAGGCTGTGCCTGAAGATGCCACGCTGTCAAGTAG  
GGTGGTGGGGGAGACAGCGAGGGCAGTACAGGACACAGGCACTCCTTTGTCTGGTAGAGA  
GGAGGAGGGGAAATGGAGCTATTCCAGGATACAAGGGATGGCACTGAGGGATGCATAAGT  
CCCCTGCCTCCCTTGTCTCAACATGTTCTCCTCTGCCAGCCAGTCAGCTTGGGGAGCTAG  
GTATCAGAAACCTGAAGGATTGAGCCCGCTTGTCTACTAGTGTCTATAAGTCTCTGTCT  
GAGATCCTGGGGCTCCTCCTATTTCTAGAAGGGATGAGGTGCCATCAAAAATAACTTGGCTG  
GTGTAACAGTTTAGAGAAGGAAGTCACACCTGTAGCCTGGCTGGCAGGCAGGTGGACATGA  
GGCTGAGAAGGGAAGCCAGATGTGAGAACATACTAGGCTAGCATGCCTGCTTCTAGCTTTC  
AGGACCCAATGTACACATACACATGTGTATCATGTATGTATATGCATGGACACTCAAGCACA  
GGAGGGGTTATGTGCTCTGATCTTTGAAACCAGAGAAGGGAGGAAAAGCCTTATGGAGGTC  
CCTCCCCCACCCTAATAGGTTGCTACCCTCAATTGCCATCTGCCACCAAGGCCCTGCCC  
AGTGCTAGGCAGATAGCCAAGTGGTAGGGGTGACATGACTCCACTAAAGCAGCAGCCCAAG  
GAAGTGAGGGAGGGGACAGAGGCTGACCTCCTCAAAGCCCCTTGTGTAGTAGACCACTT  
CAACGCTGGGGTTTTGCTCATGTCTGAGCTCTCAGCTCTGGTTCCAGGTTGCTATGTGT  
ATGGAGCTCTTCTGGGGGAATAGGGCACAGCAGGGGGGTTGCAAATACCAGGCAGAAG  
CCCACAGTCCCACCTGCAGGGGTGCCCCAGCCAGGGGGCGGCTTCAGGAAGTCTTTC

Table 4

TTCTCCAGAGTGTCCATGATCAGTGGTGGGATGGCCATGGCAGGAATCGCCATGCAGATTC  
TTGAAATCACCACCTGGAAGATTCCCTGCTTGGCTGCAGTCACCGAGTAGCCAAGCCTCTGA  
CCTGCCTCATCAGCCACCGGGATGCCACCTGCAGCTCTCTCTGCCTCATCAGGGGGATGT  
TGATGCAGTTGGCAGCTGCCACTGCTGCAAAGGGGCACAAATCTGCCGACCAAGGGGGGCA  
GGTGCTTGGTGAGGGATTGAGTCCCAGGGCCGTGGCCACAGCTCCAGTGGTGGCACTCA  
CATAGGCTGTCCCCAGCTGCCTCACAGTGTGGGAGTGTCACTACTGCGGTTGGAGTAGTT  
AACAAATGGCATTGAAGGACTGATTCACCCACTGCCAGAACACCACGGTTGGGGTCTTCCTGT  
AGAATGTGAGCATGCAGCCAGTGATGGTCATGTTTCATGGGCACCTGGGCTGACATGCGGCC  
AATCAGGACCACCTTCTCCCCTGTGTCCGGATGGAAGGCGGAGTCATACACATACTTGGCC  
CTCCACAGCTGGTCCCTCGGTGATCCCTGGGGTACCACGCCGGCCCTGTAGTTCTGCACGA  
TGTTCCGAGAAGCTTCCAGCTGTGCCCCGGACAGCAGCAGATTCGAGGATCAGTAACAGT  
GAAAAAGTGCCGGCTCTGCCAGGAAAGTACTTTGGTCCCAGCGAGGTTCTTGATGTTG  
ATGTCTAAAGGCAATTCACCCATTTTGCTTTCATCGCTCTCTGAAGCTCTCAGAACCCTT  
CCTCTCTGCCTCCGCTGTGCGCCGGGGCCCTCCAGCCATCACGCGGGACGTACGCGT  
GACGCCGACAGCAGGGAGGGGAGGAGCTTCCCGGCCGCGCCACCCGGTGGGCACGG  
GGATTGGCAGAACCAGCCACCACAGAGCAGCCTGCAGCAAACCTCAGGCTCACGTCC  
CGCTCTGCCCCGTGACGTCCCTCCACGGAGCCTCAAGGGTGCCAGGGAGGGGTGCA  
TTCCAGGAGCCCCGGTAGCTGGCTCGGCTCAGAGAAGAGGTGGTTCGAGCCGGAGGGGAA  
CAAGCCAGACCCAAGCCCTAAATTTGCGGAATGAGCTAGGGCGTCAGAACCAGAACTGGG  
TGGGTAAAGAACTCCGCTGCCCGGGACCAGGTAACGCCGGACGCGTGGGTGCGAC  
>394

NNGTGCCATTGTGACCCGAGAATTTAATATACTTGTGCCCCGCGCGTGTGTTTGT  
ACCGTCCGCGGAGTGTCCCCTCAATTTCTACCCCTCGCCCCCTTAACCCAAAGCTAAATCCA  
CCATCTGGTATTCTCCCCTAGAGCACCAGATGACCATCTGAAGCTGGACAAGTGTCTCTAAC  
AATAAAACATTACTGTTTACAAAACAAAAAGCACAAACATAATTATGGAATAAATAAAAAACAA  
GGGACAAACAGCCAACTGACTCTACCCACTTGGTGAGAAGTGATATACTTCAACTATTTTTT  
AATGCTTCTGAAAGTTTCTTGGCCCACAGAGGACTAGGGTGCAATCATTCCCTGTTAGTG  
AGTTGGGTTTAAATGCAGCTTCAAAATTAGGGTAAAGGGACTTGGTGAAATGTTTACATTAAAT  
ATTTCACTCCTACCCATTCTTCAGGAAAAAAGGTGAGCTCAGCAAGGCTGGATGCCATTAAG  
AGATATTTACTGTTTTCTTTTTCTATAGCTAAAAAAGCAAACCTTACACGAAGAAGCTCTTGAT  
TAAGGAAATTTCAATAGATTCAATTTATAAAATTTTAAACATTTGGCACAGCAAAATTTGGAA  
AAAATGGGGGAGAAAAAATAGGTCTGGTTGTTGTCCTCCCTTTTTCCACCTGCTGCTGGACAG  
TGATGAGATGCTCACAGAAGAAAAAGCCCTGGCTTTGTACCAGGCTGGCGACAGGTGCTAC  
CAGGAGTGGGCTGAGGGGAGAAAACTATCTCCACTCTTTTGGCCCAGGCAATGTCAACG  
ACTTCCACATTCCCTGGCCCACTTCTGAGCAACCCCAAGGTTCCGGCTCTGTATAAGGACCCT  
CCCCTCCCAACCCCAACCCCAAGAGTGCAAGTCAACCAACAATTTACTGGTGGAATG  
GCAATCAAAGGAAACAGTTAAACACCAAAACAATTTCTTAAAGCCAAAAAATATTTTTCATGGA  
GTTGAACATTTTTCGAGTGTGTTTTTTTCAAGTGTAAAAGCAGTGACATTTTGTTCAAACAGAA  
GCAGCATCTAGGAATTCTGGCACTTGGGTTCTAGGGGGTTACAGGTATGCATCATGGATTCT  
TCTCCCTCGTATTTAAAAAGGCCTCGTGTCTTCTATTCTGAGTTCATACCAACACCTGCTAGC  
TCTCCCCTCTAGCGGACAGTGGGTGGCCAGCCAGCCTCCCTGGTTAGATTGGGCAATGCCA  
AGCAGACATCCCTCATTACCTGCTGGGCTTGCTTTCTGATTGAGAGGTAAAGTCGAAGTGCA  
GAGAAAGAACTTACAAAAGCACAACCACCAAGGCAGCCTGAACGGGGAGCCCTGTGCAG  
ACTGAGTTGCTGGAGACTACCTCTCAGTCCCATTCTGGGGAAAGGTAGGTCACTCATGG  
AATTTGAATCAAACATGGGGGAGGACACCTGCCAAGCAATAGTATGATGGAAGTCAAGTCATC  
CCAGGCCATCTACTGTCTCCCTCACCTGCCCTAACCTTTCTGAGTCCCTCCCTCTCTTG  
CAAGCACTGTAGTTTAAAAAGGAAAAAACACCCCCCACCATTAAAAGACAACCTTCAAATGTT  
ACTCAGTATATAAAGTTTGCTTAGGCTAAGGTGGAGTCAGAAATGTCTCTAATTGTAGACACC  
ATCTCTGTGCCACCCTTCTCTCATCGGATATGGAGTGATTTCTTCTCTCGCTGCTGCGACG  
CAGATCTGAGCCACAGTCAGGTACCAATGTACACGACATAGGCACATGTGCAAACACAAAGA  
AGGTGGGCTGCTGCTTCTTTCTCTCTGCCCCTAGTCCAGGCTCCTTTGCTTCACGTAAGATT  
AACACTTTCCATTCTCTGAAGTTGCTGGAAGGACATTTCCAGGAAGAAACAATTCCTCA  
CTGCCTATAAACTGTAGTCTCATGTGGGATAGTCAATTGAACATGAGAATCAGAACAATCTG  
GGCAATGGGTATGGCAAGAATGGGAACACCACAACAGGACAGATGCCAACTCTCATTCAT  
GCCAGGCCTTTTGGCATCTGGGTGCCTTCTGTGTCTTCTTCCACCTCTTCTTCAGTCTCAA  
CATCCACTTGTACCCCCAGCTACCTCCCATGTTTCCAGGTATCATTGGCTCTTAACTCCACA

Table 4

AGCCTGCCTTTTGGCTACCCATCCCAACAATATCAAGAGGGAATGACTAAGTATCAGCTAGA  
AACTTAGCCATGTCTCAACATTCCTGGATTATCTGAAAAGCTGTCGATGCCCTTTTACAGGTT  
TATGGTGACAGACCCGTATCATCTTAAAGTATGTTTCATAGTTAAGGCTTGACTTAAGAAAATA  
AGAGAACCAGACATAATGGAAGACCTCTTCAATAATGTTGTCATGCCTCTCAGTGAACGTG  
CTCACAGTCACACTTGTTTGGCTCCCCAAACCCACAATAGAAAAGGAAAAAATGAGTATTTT  
GTTTTTCATCTGTTTTGTATTTAAAGGCATTGGGTTACTTCCTCCTGCCCTCTTTTCTTCCCTG  
AACAAGAGTTTACAACCTCTCATGGCTTCTTAATAGGTGAAGTAGGTGAAAAGTCTGAGAAG  
CTCACAGCAGGGTTTGCCGTCCCAACTATGCAGCTGAGAGGTCGCCAGCTCCTGTGCCCTTC  
CCAGCCCCACTATAATTGGCAGTATGTTTGTTCATGTTTCCTGAAAACATTTTCTTTAAAAAG  
GAAAAGAAAAAATGCCAAACAACACCAACCAAAAAAAAAAAAAAAAAAAAAAGAAGGAAGAA  
GACAAAGAGCAACATCCAAACATTCCCCAAGCCCCACCCAGTAAGTCTGAGATTATCTTAT  
TCCTTCCCTGAAATAATTATAAAGAAGCATTTCAGGCAAAATACTTAGTATTAATGGTCTCTTA  
CTGCTCAACCTCCCAACCATGCCCTTTTCCCTTTTATGTGTATCTCTTGGAGTAAAAATAAAT  
CATTAAATGGCTTTCCACATACAAATACAATAGAAAAGAAAAGAAGTCTGGAACCTGACTATCAT  
GGGACCAAAAAAGTATCTTGGCCCTTTGGGAGTTTCTTGTGAGAAAGTATAAGCCTCAACAG  
GAAATAGAGGCTCCTTCTCCTTTGAGTTCAATACCCCTCCCTGTGTCCTACTCACCAGGAAAAAT  
AAGTGTGTTTCATATCCACCTAATTTACAACAGAAGATAACCCCATCCCATCCCCAAAAACATA  
AAAATACAAGTCTATGCCCATAGAACN

&gt;395

NNNNAACACATTTCCCTCCCGTCGCTGGGTCCCTGCGATCGCCCCCAGCTGGTG  
GGGCTCGCGGAGCTCAGGGGAGCGGGTCTCTGCGCCGCTGCAGCCGAGTTAATAAAACA  
GTTAAGTTTGAAGACTCTGCAGACACGTTGAGGGGGAGTTACCAAGCCCAGGCAGCAAAA  
ACATCCTGGCACATTCTTGGGGAGTCTCAGCTGCCAGCATCTGATTAGAACCATATCTCTC  
GCCGGGAGTGGCCGCGCGCTCCGAAGCTCCCGGCCGCGGCTATTTAAGCGAGGCCCG  
CCGCATCCGCTGCGCTGTAGCCTGGAGGCTCCGGGCGCGGGGAAGTCATGCTCGCTTAC  
GGAGGCAATAGCTAGCCGGTGTCTGTGGGAGGTTATGTTTATTTGAGACTTCTCCATCGGGA  
TCGCCTGGTGTACCAAGTGTCCACTGGTACTGAGGTTTGTGCTGCCTGCCTTCTTGCCATGTC  
TAACGAAGTAGAAACAAGTGCAACCAATGGTCAGCCCCAGCAACAGGCCGCAAAAAGCA  
CCCTCAAAGAAGGAAAAAAGAAAGGCCCTGAAAAGACAGATGAATATCTCTTAGCAAGGTT  
CAAAGGCGATGGTGTAAATATAAGGCCAAGCTGATTGGCATTGATGATGTGCCAGATGCAA  
GAGGGGATAAAATGAGCCAAGACTCTATGATGAAACTAAAGGGAATGCGCGCAGCTGGTCCG  
GTCTCAGGGACAACACAACAAAGGATCTGGGTCAACATTTCCCTTTCTGGGATAAAAAATAA  
TTGATGAGAAAAGTGGGTAATAGAGCATGAACATCCAGTAAATAAGATTTCTTTCATTGCC  
GTGATGTGACAGACAACCGGGCATTTGGTTACGTGTGTGGAGGAGAAGGCCAGCATCAGTT  
TTTTGCCATAAAAACCGGGCAACAGGCTGAACCATTAGTTGTTGATCTTAAAGACCTTTTTCA  
AGTTATCTATAATGTAAAGAAAAGGAAGAAGAAAAGAAAAGATAGAGGAAGCCAGCAAAAG  
CAGTTGAGAATGGGAGTGAGGCCCTAATGATTCTAGATGACCAAACTAACAACTGAAATCG  
GGTGTGACCAGATGGATTTGTTTGGGGACATGTCTACACCTCCTGACCTAAATAGTCCAAC  
AGAAAGCAAAGATATCCTGTTAGTGGATCTAAACTCTGAAATCGACACCAATCAGAATTCCTT  
AAGAGAAAATCCATTCTTAACAAACGGCATCACCTCCTGTTCTCTTCTCGACCAACGCCTCA  
GGCATCCTTCTTGCTGAAAATGCCTTTTCTGCCAATCTCAACTTCTTTCCACCCCTAATCC  
TGATCCTTTCCGTGACGATCCTTTCACACAGCCAGACCAATCGACACCTTCTTCTGTTTGATT  
TCTCAAATCTCCAGATCAGAAGAAAGAGAATTCGAGTAGCTCGTCTACTCCGCTGAGTAATG  
GGCCCCTGAATGGTGATGTTGACTACTTTGGTCAGCAATTTGACCAGATCTCTAACCGGACT  
GGCAAACAGGAAGCTCAGGCAGGCCCATGGCCCTTTCAAGTTCGCAAACCCAGCCAGCAG  
TGAGAACTCAAATGGGGTATCTGAAAGAGAACAGAACGGCTTCTCTGTCAAATCCTCCCCG  
AACCCTTTTGTGGGAAGCCCTCCCAAAGGACTGTCCATACAGAATGGCGTAAAGCAGGACTT  
GGAAAGCTCTGTCCAGTCTCACCACATGACTCCATAGCCATTATCCCACCTCCACAAAGTA  
CCAAACCAGGAAGAGGCAGAAGGACTGCTAAGTCTTCAGCCAATGACTTGCTTGCATCAGA  
CATCTTTGCTCCTCCCGTCTCAGAACCTTCAGGCCAGGCGTCACCCACAGGACAACCTACA  
GCCCTGCAGCCCAACCTCTGGATCTCTTCAAACAAGTGCTCCTGCCCCAGTGGGGCCCC  
TGGTGGGTCTAGGTGGTGTAACTGTCACACTCCCTCAGGCAGGACCATGGAACACAGCATC  
TTTGGTCTTCAATCAGTCCCTTCAATGGCTCCGGGAGCCATGATGGGTGGTCAACCTTCAG  
GTTTTAGTCAGCCCTCATTTTTGGTACAAGTCCAGCTGTTTCAGGTTGGAACCAAGCTTCA  
CCCTTTCAGCCTCAACTCCCCCTCCAGTGCCTGTTGTCTGGGGCCCTTCTGCATCTGTGG  
CACCCAATGCTTGGTCAACAACAAGCCCTTTGGGGAATCCTTTTCAGAGCAATATTTTTCCAG

Table 4

CTCCTGCTGTGTCCACTCAGCCCCCATCCATGCACTCCTCTCTCCTGGTCACTCCTCCTCAG  
CCACCTCCCAGAGCTGGCCCTCCCAAGGACATCTCCAGTGATGCCTTCACTGCCTTAGACC  
CACTTGGGGATAAAGAGATCAAGGATGTGAAAGAAATGTTAAAGATTCCAAGTGGCGAG  
CCACCTGCTGTGCCCGCGCGGAAGGGAGAGCAGACTTCTTCTGGGACTTTGAGTGCCTTTG  
CCAGTTATTTCAACAGCAAGGTTGGCATTCTCAGGAGAATGCAGACCATGATGACTTTGAT  
GCTAATCAACTATTGAACAAGATCAATGAACCACCAAAGCCAGCTCCCAGACAAGTTCCCT  
GCCAGTTACCAAATCTACTGACAATGCATTTGAGAACCCTTTCTTTAAAGATTCTTTGGTTCA  
TCACAAGCCTCTGTGGCTTCTTCTCAACCTGTATCTTCTGAGATGTATAGGGATCCATTTGGA  
AATCCTTTTGCCTAAATTCTGAACCTGGTCTGCAGACCATCCAGAGGAATAAAAAGGTTGGC  
CTTAGTAGTCAAAAACAAAGCTGATAGCCAGACACGTTCTGATTTCTGCCCTTGTTCCAGCTT  
TGACGTATTATCTGTTGCCCTATTTCTCATTGCCTCTTCTACTTGTAATGCTTTTCACTTTCT  
GTCTAGGTTAAAGCTAACTGAATCTATGGCTTTAAATAAATTAAGATCCTAACTCTAGCT  
TAAGTGTAATGAAGTACAGTAGTTTCCCTACTGAACCTGCCTCTTGTGTCCTGGACCTT  
CTAGAACACCTGCCTTCTACCCTCTGGTTGGGAGATGCAGCCACCACATCCCTTCATATCAT  
ACTGTTTTGAATAAATTTTCAAATCCTTATTGTTTCAAGAGTTGTTTGGGGGTTCTGTTTCAAGAGC  
ATAAAACCTAAAGGTTATAGTAGAACAAGGCACCTTCTTAAAGAAATCTTGCTTCAGACCAT  
CAGTTACAGAGAATTTCTAAAGTAAATGAAGCAACTACAACCTTCTCCTTAGACACTTTGGA  
ATCTAACCCTTAAAGGACCTTTTTAAAGAGATAGCTTCTCTTCTTCTGAAGATCAATTTCTCC  
CAAGGCCAAGATTGTCTTTTCTCCCATTTCTTGCTAGCTATTGCAAATGAGGGAAGAACATT  
ATTATCTCTCTCTCCCTTTTTTCTGATTCTTTTTTCAAGTCAAGTTTGTCTCTGGGTTCAAG  
TAGTATTACCACCTTTTCAACAAGCAACAGACTCTCACAGGGGCAAAAAAAAAAAAAATCTAA  
TGATTACAGACAGATCTGGAGCCTCTCTTCTCATTCTCAGTAATTGCTAGTCCCAAGAACTAGA  
ATTGCAAATGGGCACAACCTATATCCTTCTCTGGAAGAGGAGGCCACTCTCTTGAGCTGAA  
GTTCCAGAAGAGCAGTTAATGTTCAAGAGAAATTGAACCTCAACTCAGCAACAAGGACTCTA  
TTTTGAAGAGCAACATATCACAAAGCTAAATGTGATTGTGCCAAACACATTAGGTGCTTATT  
GGGGTCATGCTAGGCCCTTATCAAGTAACTGGAAAACCTTTCTTGACGCCACAATCTCAATGT  
CGTTAGTAGGAAGATAAGAGGGGGAGAAAAAGCTGTAGAACAATGTTTGGGGTTACCATTGA  
AAATCTAATGTCTCAATATTTTTCTCCTCACAACCTTGGAAACGTTCCAGTTCAATTTTCAAGT  
CTGTTGTGAGCAGTCTGAAGGGTTTATTATTGTCAAAATAAGTTTTGTTTTGTTTTGTTA  
TGTTGGGTTTTAATGTTGTCTCTTGACCCTTAATGCTCAGGTTCTTGTTGGGAGTTAATCAGC  
CACATCCAACGTTACCTTGAGGGGGGAAGAAGAGGGTGATGCTCAGAAGCTAAACAAGACAG  
GGGCCACATGACCCTCTATTGATTAGCCCCAAGTAGAAAGTCTGTGGTTTTATGTTTAATG  
GTAATGATTGATCATATATGGCATAATTTTCTATCAGCTTCCCTACTCAGTCACTATAAACACAG  
ACTTGAATGATCACTTTAAATGTCCAAATACCTAAATGTGCTAACTGGAGGTAACCTATTTCTA  
GGTAGTTGAATTTTGAAGTCATGATCAGCCACACAACCTGTTTTGTACATACTTATTTTCTCA  
TGCACTTTTCTGTATGCAAATAAAGCTATAAATTTACTCATTTCAATAAAGTGGAGTGGCAGAA  
TAACAAAAGAAAATATAAATAAATAAAAAAAGCGGCC

&gt;396

&gt;397

&gt;398

NAGCGTTACTCTGACAAAGACTTGTTTTCTGTTGCATAGCAACTGAAGATAAGTATGC  
AGAAGCTTAGCAAAGATTTTCAAGAGAAAATTAAGTAAAGGATTACGTAATTCGGGAAATAAAAA  
CCTGAAGGGCAATTTCAACTAAGTATGGCGACTACCTGCTCACCATCTTTTGGAGACCGAAG  
AAGAAATGAATGGTCTGAACAGACTTAGCCCGACAGAGCTGCCCAATAGAGAGGATGCCAA  
TGTTAAATGACCACAAGAAATGTAACATCTTTTTTAGGACACCCTAGATAAGAAATCTTCCA  
ACTGGTCCTTCAGGAGGGTGTCTAAGCAGTCTTGGATGAGCTACATCAACAGGTCTGCAGA  
CCACAGAGCCAGCAATCAGGGACCACATTTCCCGAGGTACAAAATTTAGAGGTTTCCCTTT  
ATCAACAAGAGACCCAGGTGCCAGCATGTTACTACCAGATCCAGTTCTTCTTAGGCAGTGT  
GGCTCAAAGGGATGAGACCTTCCAGACACTGGTATCTGAGCATCTGTGGCCTGCCCTGAG  
TTGTCAAGATAATTTCTTATCTCTGAAGGAGTCCAGACAGGAATGCTTCACTGCTGGGTG  
GGTGCTCGCCCTCTTGCTCCTTAAGCGCCCGGCTCACCCCTTGCTAGCACAGGGTGTCT  
TACACAGTTTATGGGACTTTTCTGTGAACCTGAGGGCAAGAACCATGTCCCACTCCCTC  
CTTGCTCCTCAAATATTTATAGGAAAGCAGTCCACAGTCTCACACAGAGGAAACATGAAGTT  
TAAGTTCTAGCCGTATGAGGACAACACCTACTTTGATACCAGGCGTCACACTCTACAGCTNT  
GTTCAAGCTGAGGAGAGTTCTTTTCTTATCTGTGTGTTCTCAGAACACAGAGTGGGACT  
CCTGCCAAGTCACCCTTGACTTACN

Table 4

&gt;399

NNNNNNNNNNNGCCGAGGTACGCGGGGAGAGAGGAAAAGAACACAGATCTCGCA  
TGGTTCAGATTTTTCTTTTAGGTCCAGGAGTAAGATATATCATACGAAAATGAAAATTATAAT  
TCTTCTTGGATTCTGGGAGCCACATTGTCAGCCCCACTTATCCCACAGCGTCTCATGTCTG  
CCAGCAATAGCAATGAGTTACTTCTTAATCTTAATAATGGTCAACTTTTGCCACTACAACCTCA  
GGGCCCACTTAATTCATGGATTCCACCTTTCTCTGGAATTTACAACAGCAGCAGCAGGCTC  
AAATTCCAGGACTCTCCAGTTCTCTTTATCAGCTCTAGACCAGTTTGCTGGACTGCTCCCAA  
ATCAGATACCCCTTAACAGGAGAGGCCAGTTTTGCCCCAAGGAGCCAGGCAGGCCAAGTTGA  
TCCCTTACAGCTTCAAACACCGCCTCAGACACAACCAGGCCCCAGTCACGTGATGCCCTAT  
GTATTCTCCTTCAAATGCCTCAAGAGCAAGGACAGATGTTTCAATACTATCCAGTTTACATG  
GTCCTACCCTGGGAACAACCTCAGCAAACAGTTCCAAGGTCACCTCAACAAACAAGACAGCA  
ACAGTATGAGGAGCAGATACCATTCTATGCTCAATTTGGATACATTCCACAACCTAGCAGAAC  
CTGCTATATCAGGAGGACAGCAGCAACTAGCTTTTGATCCCCAAGTGGCAGCAGCTCCTGAA  
ATTGCTGTGATGTCAACAGGAGAAGAGATACCATATTTACAAAAAGAAGCGATCAACTTTAGA  
CATGACAGTGCAGGAGTTTTCTATGCCCTCAACTTCACCAAAACCCAGCACAAACCAATGTTTT  
CACTTCTGCTGTAGACCAAACCTATTACCCAGAGCTCCAGAGAGAAGGACAAGACTGACA  
GCCTAAGGGAACCATAGAAGTTGCCCTGATCATTAGACATTTTGGGAAAAAGATGTGGCC  
ATGCTTGGATATAATTTAGGCTATTAGCTTCTCTCAATACTAGTATCAGTTCTTTGGAATACA  
TGAAATATCTTGACTCTTCTCTAAATTTGTTTTACTTATACATGTTATTAACCTCTTTAAATA  
TGTCATAGAAAATAATACAATCATGTAATGAGTCTTGCTTACAAAATTATATGTCTCTTCAAA  
TATCCTATCATTGTATAATATGGAATATAATAACACAGAATAAAGCTAGTATCATTAAATCAAT  
TGGATAATTGCATTAGTAAATGATGCCTCTGCAAAATGGTAGTACCCATGAAGATATGTATAT  
TGTCATTGGATGTATGATGAGTGTGTGATTGGAAGTGAAGTAAATAAGTATCTAGATT  
TGAAAAAAAAAAAAAAAAA

&gt;400

&gt;401

TTGGAGCTCACCGCGGTGGCGGCCGAGGTACGCGGGGACCGATGGCGCGATTTC  
CAATCCTGCAGAACGGCCATACAAATTGCCAGACCTGTGCACAACGCTGGACACCACCTTG  
CAGGACATTACAATAGCCTGTGTCTATTGCAGACGACCACTACAGCAAACCGAGGTGCATGT  
GTTGTCTGAAACCGCTGTGTCCAGCAGAAAAATTAAGACACCTAAATAGCAAACGAAGATTT  
CATAAAATAGCAGGAAGCTATACAGGACAGTGTGACGGTGCTGGACCACAAAACGGGAGG  
ACCGCAGACTAACACGAAGAGAAACCCAAGTATAACATCAGATATGCGTGGACCAAGGCC  
ACCTTGCAGGAAATTGTATTAGATTATGTCTTACAATGAAATACAGCCGGTTGACCTTGTA  
TGTCACGAGCAATTAGGAGAGTCAGAGGATGAAATAGATGAACCCGACCATGCAGTTAATCA  
CCAACATCAACTACTAGCCAGACGGGATGAACCACAGCGTCACACAATACAGTGTTCTGT  
GTAAGTGTAACAACACACTGCAGCTGGTAGTAGAAGCCTCACGGGATACTCTGCGACAAC  
CAGCAGCTGTTTATGGACTCACTAGCCGGGCAGGTACGCGGGTGTGCAACTGCAAACCACT  
AACCTGCTATGGCCAATTGTGAAGAGATGGGAGTCTCCCCGTATTGCCAGGCCGGTCTCA  
AACTCCTGGGCTCAAGCAATCTTCCCGCCCCACTTCCCGAAGCCCTAGGATTACGGGAGTG  
AGCCACCGCACCCAGCCAGAAAAACGTTTCAAATATTGGAAAACCTTACTTTTTTCAATGAGC  
ATTTTTGCATCAAGGGGTAAACAGGGACATTAGGCTTTTTTCTCTTAGACTCCAAACAGTAAG  
GTCAGAATTTATCAAGACATTACATAGGAGTAAGGGCACAGCCAGGGGTGGTGGGGGGAGG  
ACATTTTCCAGCACTAATTAACAGGTTTTATGATTCACTAGGTTGGCCCACTACTGTTCTCA  
CCTAATTTCCAGGCACAGCGTGTGAGGAGGCCAAATGACACTTTCCAGTGCAAGTGCTTGTA  
GTATGAAGGGGGCAGAGATCACCTAGTGACCATCAAGCAGGCCATCCAGAGGCAAACTCC  
TTATGTGAGGAATTTAGAAGTAATTAGACTCCCCTGTTATTTAAAGCTGGCATCTGGGTCCAG  
GCTTCTTCCCCAAAACCTTGTAAGTAAGTAACTAGAAATTTCTACATGTCTCCCATGCATGCATGTCA  
AAACTTATCGTGCAACCCTTGCTGACATTAAGACACCAAAATGTCCAAAAATGTAATCATTTA  
TCATGACCTAAGTGGTTAATATGGCCCAATTCCTTTAAGCTCCTGCTTTAAGGTTTCAATA  
TATCCCTAAGGAAAATCCACTCAGTCTCTCTGCTGAGGCACCCTGCTGTACCTGCCCGGG  
CGGCCGCTCCACCGCGGTGAGCNNNNN

&gt;402

AGGGAGTCGACCCACGCGTCCGGAGCTGAATCACCAGAATGGGGAACCCACGGAG  
GTAGAAGATGGCACTGTGGATGGTGCAGACAGGGATGAAAAGGACTTCAGGAATCCTGGCC  
AGGAAGTCAGGAACTAGACCTGCCAGTGCTGTTCCCAACAGACTTGGTAAGACTCCCTTG  
GCTCTGATGGTCAAAGGATGGCAAAGTCCACTTTAGAGGCCATTAGCCTAGCAGTTGAGTAG

Table 4

GAGCTGTCACTGATCCTGGCATCATCATCTTGATGTGTGACCCTATCCAAGTTTTGGTTT  
TCATGGAGTTAAAGGTTATTCCTTGCATTTTACAGCCCTGATTTTGCATTTGCCAACCTCT  
TTCAACTAAGTTCATGTCATCTTTCCCATGGAGTTTCACTATGCATTGTCAGACTGCTGGTT  
AGGCCTCCAGACCAGGTCCATCTTCTCCCTTTTTCTCTAGCATGGCCTTGCCTTTCCACAG  
CCCTGAGCCTATGCCTGGCCTGGGTACCTTAGCCCCCTTGCTTTCTTCCCTGTTTGAAGCC  
TGCCCAAGCCCCAGGGTTGCCCTTTTGTATTCTGCTGCCTAGAAGTTAGAACATTCAAGAA  
TTGAGGGTACACCTATAAACAGACTGGCAGATGATATAGTGCTTAATGTCTTGCCTCAGTTTG  
TCATTGTGTGAGAACATCCGAAAAAAGATAGGAGAAAAAGTTGGAGTTTAGGGCATAATTTTCC  
TGTAATAATTTGGAGCTCAAAAATATTACAATGAGAAAAATAAAAAGCTATTAATTAGCAGGAG  
ACTTAATCACATGAAGAATTTCAATTAGATATTTCTTCTACGTAGTATAGTTATAACTTTGCATT  
CCATTGTTTTCTTCTCTATAGTCCATTGTATTTCTGTGGGGTTTTTTTTTTTTCAGGTTTTGAG  
TTCAAGAACGAGATTAATAAAGAAAAATCTAAATGGGATGATTACAGAGGAAGTAGAAATAAAC  
AAGGCTTTACAGAGAAAAGTCCAGAGGAGTTTATTGGCACTCTGAGCTACAAAAAGGCTTGGGA  
GAGTGAGCCAACATCAAGAAGGCAATGTAGAAATTCTCCAGGGGAGAGTGAGGAGAAAAACC  
CCATCCCAGGAGAAGATGAGTCACCAGAGTTTTTGTGCCAGGGACAAAGCCTGTACACATAT  
CCTCTGTGGGAAAAACTGCTCTCAGAGTGTGCACTCTCCCCACAAGCCAGCGCTCAAACCTG  
GAAAAAGTATCTCAATGTCCTGAATGTGGGAAAAACCTTAGCCGAAGTTCTTATCTTGTTCGG  
CATCAAGAATCCACACAGGCGAGAAGCCTCACAAAGTGCAGTGAGTGCGGGAAGGGCTTTA  
GTGAGCGCTCCAACCTCACTGCCACCTACGAACTCACACAGGGGAGAGGCCCTATCAGTG  
TGGGCAATGTGGGAAAAGCTTCAACCAGAGTTCAGCCTCATTGTCCACCAGAGGACCCAT  
ACCGGGGAAAAGCCTTACCAGTGCATTGTCTGTGGAAAGAGATTCAACAACAGTTCCAGTT  
CAGTGCTCACC GGCGCATCCACACTGGGGAGAGCCCATACAAGTGTGCAGTGTGTGGGAA  
AATCTTCAACAATAGCTCCCACTTCAGTGCCCAACCGAAAAACCCACACTGGTGAAAAGCCTT  
ACAGGTGTTCTCACTGTGAGAGAGGCTTCACTAAGAACTCTGCCCTCACCCGTATCAGACA  
GTACACATGAAAGCAGTACTCTCATCACAGGAAGGAAGAGATGCGTTATGAGTGTGTTCGGTA  
AACTGTCAGATTAAGTTCTCAGGTCAGCATGTATGAGCTTTCTTCTGCTGTGGAGAGATCTA  
GCCAGTCCCTGACTTTGCAACAGACCTACTGACTACTGGATCTTAAGACCCATGTCTAGGAC  
CAGGAGTCAGCATAAGGACGCTGACCTCTCTGGCTGTGCCTGTGACTCCAGAGTCCCTATC  
TTACTGTGACTTAAAGTTTGATGGAGAGAAAGCTGTAGGATCCATAAATTCTACCAGGAAACC  
AGGGTCTTCTGTTCTAGCACTGAGAATGGGCACCCAGTGGTCCAAGAACACTTTCTGGG  
CTAACATAGTCTCAGACAGGGCTGAGAAAGAAAGTGTCTCCTTTCTGGAAAGCACATGTA  
AAAGTTAAGGGCCTGAATCTTCTAAACCAATAATTGACCTCTAGGCACCCACCATAATACT  
GCTACCTTCAGGGCAGAAGACACTGCTCTTTGTAACCCAGCCACCACCAAAAAAGCAACAGA  
AAGAAGGAAGGATGGTTAAGCCATTGGATAATACTGAATCTGTTTCCCTAAGTGACTTAACCT  
TAGAGCAAGCACACATCCAGGTTAATTTTTGTAAGATTTCTCCTTTTATTATTGCCCTCATC  
ATAGTTCTGATTGTCTCTTAAAGTAAGTGGTTTATAGACATTACTATTTCTGATAATAATTTA  
CAAATACTATAAAACAAATTTATAAACATTACTAATTTCTGATGAAAATAAAGTTGTTTCTCCCT  
CCACAAANNNNNNNNNNNNNNN

&gt;403

NNACCCACGCGTCCGGATTAATCTATTTGCCTAAATGGGTTTGTTTCAGGTATCCATT  
TTTAACAAAGAAGTTTGTGTTTCATATAGTAAAGACCTATCAGTGTTCACCATGCACTTCTA  
TTTTTAGGAGTTTATAATTTAAGTCTTACATTCCCTAGTAACATTTGGGCTTTCTTAGGTATG  
TTTCTAGTCTTCCCCTCAAATCATGCATGCAATAGGAGGACAGTGGTGGTGACTCAACTGG  
ATACAGGTGCTCAATAGTCAGGCTTGATAGTGATGTGTCAGGACGCATTACAAGCTGTAAGCCG  
ATACTGACTGGCCATTGGCACCATCCTTGACTAACCTTCTCTTTTCTCTAGTGTGCCTATG  
GTGAAATGGCAATAGCATTCACTGTGCTATTTGCAGTGCTCAGGAAGTGGGACGTTAACTT  
TGAAGGTGCTTGTTTGATTAGCTCTGCTAGGTTTACCTCTACAACGTAGATTTACGACAGCTA  
TGCTGACTGACACTACATTCTAGTTCTTAAGATTTTTTTCAGATCCCCCTTCCCCAGCTA  
GACATACGTAGCATACTTTTCTATTTCAGTCTTTCTGTAACTGCTGCTGCTTTTGTGCTCCT  
CTCACCTCAGATCGGAATCAATGGAGTGGGCCAGAGGATACATTTTAATTCCAGTAATGGT  
AGGTAGATTTGTCTGCTTTCTAAAACATCTCCTCATTTTCATTTTCCACTCCATATTGATTCC  
ATAAGGGAAAAATTAATGGGTGTTTCTCCTTTAGGGAGGTAATGCAAAGAGTGTGGACATCT  
TCTAATCTTGAGGAACAGTAGTTGATTTCCCTTGAAGGAGCTTACATATTGACTGTTTTTCA  
ATAACCTGTTTGGCCAGTTCAATCCTCATTTTAACTAATTTGGTACTGGCTCAAATAGCA  
TTTTCTTACAGATAACAAATCAAGAGTGAAATTTGAGGTTATACTCCAGTAAAGTTTTTAACAC  
TTGTGAATATGGTCAGCTAGACTAACTTGACTCTTTTTTTTAAATGGCTTTTTTATCTGTGAAC



Table 4

ATTCAGATAAGTGGATTTTCAAGTACTGGTTGGGGATGGGAATCGTGCTTTTCTTTAACTTC  
 AGTTTACGAGATGCTTTGAGAGCGTTAGGCAAAAGCAGAAATAAATATCAGGAGCAACGGG  
 GAAAGCTTTATAAAAAGATCATGGTGGCCACTGTTGCAGCTTTGAAGAATGAGTGCTGGCTTG  
 AACAGTTCTTTGCCTGCATCATTGGTAGCTGCACTGAAAGGAAAAAACTTTACCTTAAGAAT  
 TTGAAAAGGAAGAAACCTGGGCTCTGGTCTTCATGGCATTAGACTGAGATGCTTAAACAGA  
 ACAGAAAGTAATACGCATTTCTGCCATAGGATAGGGAAAAATGTAACAAGCTGGTTGCTCTTG  
 AGGTTAGAAAATTGTCTGTTTCTCTGTGGATGAAGCTGGATTTACTTGAAAAATGGAGAGTTGG  
 CTTATTGTTTGAATATTGGGACATCAAGCTATCTATAGCCAAGTTTCAGTCGCAACCGATTTT  
 CCCTTTGTCTGGGGTAAATTCGATACAAAATGATTCTTTTTGAATCCTGAATCCATAAATTACA  
 CTTTTTTTTTCAAATTCACAAAATTCACAGTGGTGCTGACTGTGTAATAACCACTATTGGGAA  
 ACATCCCGTAAACCTGCCTGTTGCCATGCCAATGGAGTGACTGAACTGGTGACATCTGTTTG  
 AGCATGCTTTGTGTGGCTGGTCACAATGACACGGTTGGTGCTCACCTTGACCTCCGGGCTA  
 CGGGACGGAGGGTTTTCTAGANNNNN

&gt;404

tAGGGagtcacccacGCGTCCGCCCTGCGCCAAAGTGAGCAGTAGCCAACATGTCAGG  
 GTGGGAGTCATATTACAAAACCGAGGGCGATGAAGAAGCAGAGGAAGAACAAGAGAAC  
 CTTGAAGCAAGTGTGTATCCAAAGTGTGTACATCAGTAAGATCATAAGCAGTGATCGAGATC  
 TCTTGGCTGTGGTGTCTATGGTACCGAGAAGACAAAAATTCAGTGAATTTAAAAATATTTA  
 CGTCTTACAGGAGCTGGATAATCCAGGTGCAAAACGAATTCTAGAGCTTGACCAGTTAAGG  
 GGCAGCAGGGACAAAAACGTTTCCAAGACATGATGGGCCGCGGATCTGACTACTCACTCAG  
 TGAAGTGCTGTGGGTCTGTGCCAACCTCTTTAGTGATGTCCAATTCAAGATGGGTCATAAGA  
 GGATCATGCTGTTACCAATGAAGACAACCCCCATGGCAATGACAGTGCCAAAGCCAGCCG  
 GGCCAGGACCAAAGCCGGTGATCTCCGAGATACAGGCATCTTCTTGACTTGATGCACCTG  
 AAGAAACCTGGGGGCTTTGACATATCCTTGTCTACAGAGATATCATCAGCATAGCAGAGGA  
 TGAGGACCTCAGGGTTCACTTTGAGGAATCCAGCAAGCTAGAAGACCTGTTGCGGAAGGTT  
 CGCGCCAAGGAGACCAGGAAGCGAGCACTCAGCAGGTTAAAGCTGAAGCTCAACAAAGATA  
 TAGTGATCTCTGTGGGCATTTATAATCTGGTCCAGAAGGCTCTCAAGCCTCCTCCAATAAAG  
 CTCTATCGGGAAACAAATGAACCAAGTGAACCAAGACCCCGGACCTTTAATACAAGTACAGG  
 CGGTTTGCTTCTGCTAGCGATACCAAGAGGTCTCAGATCTATGGGAGTCGTCAGATTATAC  
 TGGAGAAAGAGGAAACAGAAGAGCTAAAACGGTTTGATGATCCAGGTTTGATGCTCATGGGT  
 TTCAAGCCGTTGGTACTGCTGAAGAAACACCATTACCTGAGGCCCTCCCTGTTCTGTATCCC  
 AGAGGAGTCGCTGGTGATTGGGAGCTCAACCCTGTTCAAGTCTGCTCATCAAGTGTCTG  
 GAGAAGGAGGTTGCGGCATTGTGCAGATACACACCCCGCAGGAACATCCCTCCTTATTTGT  
 GGCTTTGGTGCCACAGGAAGAAGAGTTGGATGACGACAGCAAAAATTCAGGTGACTCCTCCAGGC  
 TTCCAGCTGGTCTTTTTACCCTTTGCTGATGATAAAAGGAAGATGCCCTTACTGAAAAAATC  
 ATGGCAACTCCAGAGCAGGTGGGCAAGATGAAGGCTATCGTTTGAGAAGCTTCGTTTACA  
 TACAGAAGTGACAGCTTTGAGAACCCCGTGCTGCAGCAGCACTTCAGGAACCTGGAGGCCT  
 TGGCCTTGATTTGATGGAGCCGGAACAAGCAGTGACCTGACATTGCCCAAGGTTGAAGC  
 AATGAATAAAAGACTGGGCTCCTTGGTGATGAGTTTAAGGAGCTTGTTTACCCACCAGATT  
 ACAATCCTGAAGGGAAAAGTTACCAAGAGAAAACACGATAATGAAGGTTCTGGAAGCAaAGGC  
 CCAAGGTGGAGTATTCAGAAGAGGAGCTGAAGACCCACATCAGCAAGGGTACCTGCCCGG  
 GCGGCCGaggtACACCTaAAGGGGGCTGAATCCAGGGAGCCAAGCAGTCtGttcTGTGGgcCcc  
 acttccaCAGCACCTCacaAGTTAagaccTGCTGGCTTGGATTCCAGCCAGCCAGTGGTGACAG  
 GTtGaaGTCtGcCtaagaTGGAATTGAGTTCCCAgATGGAGTGGTGgccaCTAtcttGCAGTTTGatcaa  
 gtcagctATtccAgtccgcttgCTTttagAGTCCAGactggATGaGgAagGGTCtCcacCATGCAGCATAgct  
 GTgctaccAAAAAGCAGCagacTactTCTTTAAGTGGGCcctGAtctCATTcctcctgactGGGTGAGAC  
 CTCCCAACAGGGGTCTCCAGCCACCTCCTACAGgt

&gt;405

NNCCAATTGGAACCTCCACCGCGGGGGCGGCCGAGGTACGCGGGGGGGCGGCGGC  
 GGAGAGAGCTGGCTCAGGGCGTCCGCTAGGCTCGGACGACCTGCTGAGCCTCCCAAACCG  
 CTTCCATAAGGCTTTGCCTTTCAAATTCAGCTACAGTGTTAGCTAAGTTTGGAAAGAAGGAA  
 AAAAGAAAAATCCCTGGGCCCTTTCTTTTGTCTTTGCCAAAGTCGT.CGTTGTAGTCTTTT..  
 GCCCAAGGCTGTTGTGTTTTAGAGGTGCTATCTCCAGTTCCTTGCACTCCTGTTAACAAGC  
 ACCTCAGCGAGAGCAGCAGCGATAGCAGCCGCGAGAAAGAGCCAGCGGGTCCGCTAGT  
 GTCATGACCAGGGCGGGAGATCACAACCGCCAGAGAGGATGCTGTGGATCCTTGCCGAC  
 TACCTGACCTCTGCAAAATCCTTCTACCTTGGTCATTCTCTCTACTTGGGGAGATCGG

Table 4

ATGTGGCACTTTGCGGTGTCTGTGTTTCTGGTAGAGCTCTATGGAAACAGCCTCCTTTTGAC  
AGCAGTCTACGGGCTGGTGGTGGCAGGGTCTGTTCTGGTCCTGGGAGCCATCATCGGTGA  
CTGGGTGGACAAGAATGCTAGACTTAAAGTGGCCAGACCTCGCTGGTGGTACAGAATGTT  
TCAGTCATCCTGTGTGGAATCATCCTGATGATGGTTTTCTTACATAAACATGAGCTTCTGACC  
ATGTACCATGGATGGGTTCTCACTTCCTGCTATATCCTGATCATCACTATTGCAAATATTGCA  
AATTTGGCCAGTACTGCTACTGCAATCACAATCCAAAGGGATTGGATTGTTGTTGTTGCAGG  
AGAAGACAGAAGCAAAGTAGCAAATATGAATGCCACAATACGAAGGATTGACCAGTTAAACCA  
ACATCTTAGCCCCCATGGCTGTTGGCCAGATTATGACATTTGGCTCCCCAGTCATCGGCTGT  
GGCTTTATTTGCGGATGGAACCTTGGTATCCATGTGCGTGGAGTACGTCCTGCTCTGGAAGGT  
TTACCAGAAAACCCAGCTCTAGCTGTGAAAGCTGGTCTTAAAGAAGAGGAACTGAATTGA  
AACAGCTGAATTTACACAAAGATACTGAGCCAAAACCCCTGGAGGGAACCTCATCTAATGGGT  
GTGAAAGACTCTAACATCCATGAGCTTGAACATGAGCAAGAGCCTACTTGTGCCTCCAGAT  
GGCTGAGCCCTCCGTACCTCCGAGATGGATGGGTCTCCTACTACAACCAGCCTGTGTTTC  
TGGCTGGCATGGGTCTTGCTTTCTTTATATGACTGTCTGGGCTTTGACTGCATCACCACA  
GGGTACGCCTACACTCAGGGACTGAGTGGTTCATCCTCAGTATTTTGATGGGAGCATCAG  
CTATAACTGGAATAATGGGAAGTGTAGCTTTTACTTGGCTACGTCGAAAATGTGGTTTGGTTC  
GGACAGGTCTGATCTCAGGATTGGCACAGCTTTCCTGTTTGATCTTGTGTGATCTCTGTA  
TTCATGCTGGAAGCCCCCTGGACTTGTCCGTTTCTCCTTTTGAAGATATCCGATCAAGGTT  
CATTCAAGGAGAGTCAATTACACCTACCAAGATACCTGAAATTACAAGTGAATATACATGTC  
TAATGGGTCTAATTTCTGCTAATATTGTCCCGAGACAAGTCTGAATCTGTGCCCATATCTC  
TGTCAGTCTGCTGTTTGCAGGCGTCATTGCTGCTAGAATCGGTCTTTGGTCTTTGATTTAAC  
TGTGACACAGTTGCTGCAAGAAAATGTAATTGAATCTGAAAGAGGCATTATAAATGGTGACA  
GAACTCCATGAACATATCTTCTGATCTTCTGCATTTTCATCATGGTCATCCTGGCTCCAAATCC  
TGAAGCTTTTGGCTTGCTCGTATTGATTTAGTCTCCTTTGTGGCAATGGGCCACATTATGTA  
TTTCCGATTTGCCAAAATACTCTGGGAAACAAGCTCTTTGCTTGCGGTCTGATGCAAAAG  
AAGTTAGGAAGGAAAATCAAGCAAATACATCTGTTGTTTGAGACAGTTTAACTGTTGCTATCC  
TGTTACTAGATTATATAGAGCACATGTGCTTATTTGACTGCAGAATCCAATAAATGGCTG  
GGTGTTTTGCTCTGTTTTTACCACAGCTGTGCCCTTGAGAACTAAAAGCTGTTTAGGAAACCTA  
AGTCAGCAGAAATTAAGTATTAATTTCCCTTATGTTGAGGCATGGAAAAAAATTTGAAAAAG  
AAAAACTCAGTTTAAATACGGAGACTATAATGATAACACTGAATCCCCTATTTCTCATGAGTA  
GATACAATCTTACGTAAGAGAGTGGTTAGTCACGTGAATTCAGTTATCATTGACAGATTCTT  
ATCTGTACTAGAATTGAGATATGTCAGTTTTCTGCAAACTCACTCTTGTCAAGACTAGCTAA  
TTTATTTTTTGCATCTTAGTTATTTTTTAAAAACAATTTCTCAAGTATGAAGACTAAATTTGA  
TAACTAATATTATCCTTATTGATCCTATTGATCTTAAGGTATTTACATGTATGTGGAAAAACAA  
AACTAGAATCTCTATAGGGTAGGTAGTTAAAGAGACTTGCTTTTATATCAATGGGGACTATGG  
TTGGAGCTTTGTGATTAAAGGGGGTTAATGAACGGGGAAAAACAAGGAATGATTACAAGTGG  
TAGTATTGATATGGTACAAAACAGGGGAACAAGTAAAGGGGAAAGGACGATAAAGTAAACAA  
GAAATAAAAAACATAGGAAAAAACNN

&gt;406

&gt;407

&gt;408

NACAATTGCCTTCCTTTTAAAGTTTCAGGGTCAAGGGAAAGTGTGGAAAGGTTTTTTTTC  
AAAAATAATTTAAAGGCCCCCNNN  
NN  
TGTTTATTTTAAATAGTAATCTTAAAAAGGCTTTATACAAATCATATAAACACAGTTTGACATTGT  
TGTTTATTTTTTACATTGAAGAATCACAGTAAAAGCTCTCAAGTTCCTCGTGATCTGGCTCAGC  
CAGTGAATGGTCAATACCTCTAACTGCAAACCCCTGAAAAAGTTAACCTGCTATGTGACAGG  
TTAACTCTTTCCCTTGTTTTCTTGTCATTGCTTATTCTTGACCCTCATCCCTGTCAACT  
CCCCTGCCCCACCAAAGACAGAAAGCAACCCTGTGGCCCTGTTGACCACCTAGTCCGGGAG  
AGTGTGGAGGTAATGTGTCATTGAGTACAAGGCAAAAAGGAGATCAATACTGGCAGTGGGG  
GAGCCCCGCGCACCCTGGGCTTCTGTGAAACATGGCGGTAGGCTGGGACCATAACACAAGC  
ATGACTATATGAAGGAAGAGGAAGGTTTTCTGAAGATGAGGCGACTGAATCGGAAAAAAAC  
TTTAAGTTTGGTAAAAGAGTTGGATGCCTTTCCGAAGGTTCTGAGAGCTATGTAGAGACTT  
CAGCCAGTGGAGGTACAGTTTCTCTAATAGCATTTACAACATATGGCTTTATTAACCATAATGG  
AATTCTCAGTATATCAAGATACATGGATGAAGTATGAATACGAAGTAGACAAGGATTTTCTA  
GCAAAATTAAGAATTAATATAGATATTACTGTTGCCATGAAGTGTCAATATGTTGGAGCGGATG

Table 4

TATTGGATTTAGCAGAAACAATGGTTGCATCTGCAGATGGTTTAGTTTATGAACCAACAGTAT  
TTGATCTTTACCACAGCAGAAAGAGTGGCAGAGGATGCTGCAGCTGATTCAGAGTAGGCT  
ACAAGAAGAGCATTCACTTCAAGATGTGATATTTAAAGTGCTTTTAAAGTACATCAACAGC  
TCTTCCACCAAGAGAAGATGATTCATCACAGTCTCCAAATGCATGCAGAATTCATGGCCATCT  
ATATGTCAATAAAGTAGCAGGGAATTTTCACATAACAGTGGGCAAGGCAATTCACATCCTC  
GTGGTCATGCACATTTGGCAGCACTTGTCAACCATGAATCTTACAATTTTTCTCATAGAATAG  
ATCATTTGTCTTTGGAGAGCTTGTTCAGCAATTATTAATCCTTTAGATGGAACCTGAAAAAT  
TGCTATAGATCACAAACCAGATGTTCCAATATTTTATTACAGTTGTGCCAACAACTACATACA  
TATAAAATATCAGCAGACACCCATCAGTTTTCTGTGACAGAAAGGGAACGTATCATTAACCAT  
GCTGCAGGCAGCCATGGAGTCTCTGGGATATTTATGAAATATGATCTCAGTTCTCTTATGGT  
GACAGTTACTGAGGAGCACATGCCATTTCTGGCAGTTTTTTGTAAGACTCTGTGGTATTGTTG  
GAGGAATCTTTTCAACAACAGGCATGTTACATGGAATTGGAATTTATAGTTGAAATAATTT  
GCTGTCTGTTTCAGACTTGGATCCTATAAACCTGTCAATTTCTGTTCTTTTGGAGATGGCCACA  
CAGACAACCACTTACCTCTTTAGAAAATAATACACATTAAACACCTCCCGATTGAAGGAGAAA  
AACTTTTTGCCTGAGACATAAAACCTTTTTTTAATAATAAAATATTGTGCAATATATTCAAAGAA  
AAGAAAACACAAATAAGCAGAAAACATACTTATTTTAAAAAAAAAAAAAAAAAGTCGACGCGGC  
CGCAATTTAGTAGTAGTAGGCGGCGCTCTAGAGGATCCAAGCTTACGTACGCGTGCATG  
CGACGTCATAGCTCTTCTATAGTGTACCTAAANNNNN

&gt;409

NNACACATTGTAATATTATATCATGTATAGTTGTACGCAGCTCTGTGCATAACTGTGG  
TAACTTTGTGGGTCGCTCCTGTGGGTCCTGAAACAATGCAGTTCTCCCCGCGTATGCGACAT  
CCGGCTGATGGTCATGGAGATCCGCAATGCTTATGCTGTGTTATATGACATCATCCTGAAGA  
ACTTCGAGAAGCTCAAGAAGCCAGGGGAGAAACAAAGGGAATGATCTATTGAGAGCCCTC  
TCTCCATTCTGTGATGAGTACTCTTCTGCACTGTTCTTTCTTTCTAATAAACTTTCTTTTC  
GAACCTATACTGTCTTCTGTAATTTCTTCTTACTACCCTATGACCCGTGAGCCAACCACTTTC  
CGATGCCAGGGTCTGACACCTCACCTGGCATAATATAAAGTGTTTTTTTTTATACCTTCC  
ACTTGAAAGACTACAGAGGAATCTTGCACTGCATAGTTCAAACCTAAAAAGAGAAGAGTTAAT  
TACCTGAAAAGCAAGAGAAAACAAGAAGGGGTAAATTTTGAACCAAGGGAAATCATTTAAGA  
AGTGTCTGGTATTTTTCAAATTTCTGTGAGTTGTTACATTTGTCATAAGTAAATGTTTAGGAAT  
AAAGGATGGAGACATGCTTATTTTATTTAACTCCCCCAAAAAAAAAAAAAAAAAAAGTACCT  
GCCCGGGCGGCGCCCGCGGCGGCGCTCN

&gt;410

NNNCAGGTAAGTGTGCAGTAGTAACCATAATTCTAAATGAGGATTATGGATTTTTCTG  
GAAGATTCTTTTTCTGTGGAACATGATGAGAAATGTTTAGGAGAGGGGACATAGCCATTTT  
TGTATGAAGACCAATTCAAGAAAAAATATATGTATGTGTGTGGGTGTATATGTGTGTATATA  
TGTATATATGTGTATGTTTATATGTCTATGTATGTTTATATATGTGGTTATACACACGCACG  
CACACACTCACACACGCATGCACACATGCACGCACACTCTCACTCTATATTTATTTCTTTGGTA  
TTCTTGGGGGATTGATTCCAGAACCTCCTGTAGATACCAAATCCGAGGATGCCTCAAGTCCC  
TGATGTAATAGCTTAATATGGCTGGGCGTGGGGGCTCACATCTGTAATCCCAGCACNNNN  
NNN

&gt;411

NNCTCCCCGCGGTGGCGGCCGAGGTACGCGGGGTGCTGGGATTACAGGCACGAG  
CCAGTGCGCCAGCTGCCTCTGTTTCTTTTATTAGCTGTTCTGGAAGTGTGGGGCTCCTTGGG  
CAGATGCTGTATTATGGGGATAAGCCACACACTTTTTGAACTGGCCCGGTGAGGGGGGACA  
TAACCATTTCTGTGCCACCCCATCAATCCCCACCTATTCTGAGTGTAGGCTCCTCCCCTGC  
TTGAGTAATGGCCACAGATCTTGGCTCGGCACTCCTAAGCTGCATGTTGAATTCCTGGGACA  
ACAAGACTGGCTTGTGGTTCCATTCTCCAGATCCTTGGGTTGGCTTCTGGGTGCACTAGGAG  
ATCTGAAATGCTCTCAGGCCACCAGGAAAGTACTGGAAGTAAAGTCTGACTCTAAAGAAGAT  
GAAAATCTAGTAATTAATGAAGTAATAAATTCTCCCAAAGGGAAAAAACGCAAGGTAGAACAT  
CAGACAGCTTGTGCTTGTAGTTCTCAATGCACGCAAGGATCTGAAAAGTGTCTCAGAAGAC  
TACTAGAAGAGACGAAACGAAACCTGTGCCTGTAACCTCTGAGGTGAAAAGATCAAAAATGG  
CTACTTCAGTGGTCCCGAAAAAGAAATGAGATGAAGAAGTCGGTTCATACACAAGTGAATACT  
AACACAACACTCCCAAAAAGTCCACAGCCATCAGTGCCTGAACAAAGTGATAATGAGCTGGA  
GCAAGCAGGAAAGAGCAAAACGAGGTAGTATTCTCCAGCTCTGTGAAGAAATTGCTGGTGAA  
ATTGAGTCAGATAATGTAGAGGTAAAAAAGGAATCTTCACAAATGGAAGGTGTAAGGAAGA  
AAAGCCACAGAAATAAAATTGGAAGAGACCAGTGTGAAAGACAAATCTTCATCAGAAGG

Table 4

AAACAAATCAGGATGTGCAATGTAATCGTTTTTCCCAAGTAGAAAAACAAAGCCTGTGAAAT  
 GTATACTAAATGGAATAAACAGCTCAGCCAAGAAGAACTCCAAGTGGACTAAAAATTAAGCTCT  
 CAAAATTTAACTCTGTGCAGCACAAATAAGTTGGACTCTCAAGTTTCCCCTAAATTAGGCTTAT  
 TACGAACCCAGTTTTTACCACCAGCTTTAGAAATGCATCATCCAGTGACTCAAAGTACATTTT  
 TAGGGACAAAGCTACATGATAGAAATATAACTTGCCAGCAGGAAAAAATGAAAGAAATTAATT  
 CTGAAGAAGTGAAAAATTAATGATATTACAGTAGAAATTAATAAAACCACAGAAAGGGCTCCTG  
 AAAATTGTCATTTGGCCAATGAGATAAAACCTTCTGACCCACCATTGGATAATCAGATGAAAC  
 ATTCTTTTGATTGAGCATCAAATAAGAATTTTCAGCCAATGTTTGAATCCAAGCTAGAAAAACA  
 GTCCAGTGGAATAATGTTACTGCTGCTTCGACTCTGCTCAGTCAAGCAAAAAATTGATACAGGA  
 GAGAATAAATTTCCAGGTTGAGCTCCCCAACAGCATAGTATTCTCAGTAACCAGACATCTAA  
 AGCAGTGATAACAGGGAGACACCACGAAATCATTCTTTGCCTAAGTGTAATTCCTTTGGA  
 GATAACAATTCAAAGGACTTGAACTAAAAGAAGCAGAGAAAACTGATGAAAAACAGTTGAT  
 TATAGATGCAGGACAAAAAAGATTTGGAGCAGTTTCTTGAATGTTTGTGGAATGCTGTATAC  
 AGCTTCAAATCCAGAAAGATGAAACACAGCATCTGCTTTTCCACAACCAGTTTATAAGTGCTGT  
 TAAATATGTGGGCTGGAAGAAAGAAAGAATTCTGGCTGAATACCCTGATGGCAGGATAATAA  
 TGGTCTCTCCTGAAGACCCAAAGTATGCCCTGAAAAAGGTTGACGAGATTAGAGAGATGGTT  
 GACAATGATTTAGGTTTTCAACAGGCTCCACTAATGTGCTATTCCAGAACTAAACACTTCTC  
 TTCAATTCATGACAAAAAAGTAGTTGGCTGCCTAATTGCGGAACATATCCAATGGGGCTA  
 CAGAGTTATAGAAGAGAAACTTCCAGTTATCAGGTCAGAAGAAGAAAAAGTCAGATTTGAAA  
 GGCAAAAAGCCTGGTGCTGCTCAACATTACCAGAGCCTGCAATCTGCGGGATCAGTCGAAT  
 ATGGGTATTGAGCATGATGCGTCGGAAGAAATGCTTCTCGCATGATTGAATGCCTAAGGA  
 GTAATTTATATATGGCTCATATTTGAGCAAAGAAGAAATGCTTCTCAGATCCCACTCCTG  
 ATGGAAGCTGTTTGCAACACAGTACTGTGGCACTGGTCAATTTCTGGTATATAATTTTATTA  
 ATGGACAGAATAGCACGTAACAAATTTCTTGCCTACACCACTAGAAGACATCTATTGAAGA  
 GAATGGATTGGTTGCTGACTTTAACAGGAAGTGGGCCATTTTTATTACAATGAAGTCAAGGA  
 CTGGCAACAACCATATGGTTGTTCCATTTTCATAAAATTTGAAACAATGCAGTAATAGCTTAT  
 TGTGTTGTTTTTAAAGAAGATATTTTATTATCTTTACAGAAATTTATGATTGATGATTTTATC  
 TATAGTTATTTAGACATGTTTACATGCAGCAGATAATTGTTTATAGTGGACTGAAAACTAATG  
 CAAGGACTATGGTCTCAGTGATAAGTATATTTTGAAGTTCTTAATATGGAAATATACCAAGTGT  
 AGCTTGGTACTGTATTTTTTATATTGATCTGCTGATACCAGTGATAGGCTTAAGATTGTATT  
 TTCACAGAGTGGAACCAATTTTTTTAGTTATTGTTCAAGGAGGGTGCAATATTAAGTGTTTT  
 GGAATTTGAAGCTAATTTTTTAAAGGCCTGAACTATACTTTGAAGAAACCCCTATAGAAAAGG  
 AAAGCTCCAGCTAAATAGGAAGAATTAGAATATTGAGCTTTTTTCTGATTTTTCTCTTTCC  
 TATCTTTGATGGAAGGAGGAAGTAGAAAGTGGTAAAGAATTGAGGCTTTCCTTCTTGGAGAG  
 CTGTAAATGACAAGCATTAGGAAGGTACCCTCCTAGATTCAATTATTCTTTCATTCTGGTTTC  
 ACTTTTAAATAAATGGCAACTTGGCACACCTAGGCTGTTAACAAATCTCAAAGAGGTTTATA  
 AAAACGTATAGAATACTTGAAGCAAAGTATGGATGACTCGGTATCTGCTTTGTTATTCCTCA  
 GAAATACTGCACTGAGTATATGCCCTCATTACTGGACTTCATTTTGATACTTGTCTATCCTTCA  
 TAGTGCCCTCTACTTTTAAAGGGTTTATATGTTGAAAACTGCTGTGGCCTTTTATGACCTGT  
 ATATAATGTAGAATAAAAAATAAAATACTTGATAGCTTTTTCTAAGTGACCAATGTACTACT  
 GAGGTGTAANNNNNNNNNNNNNNNNN

&gt;412

NATCGAACCCCCCATCCCCCATCGACCCCCCTTTGGCTCGGGACGCGCGCCATTGT  
 GTTGGTACCCGGGAATTCGGCCATTATGGCCGGGTGGAAGAACTCAGTATCACGTATTTAAAC  
 ATTTTTTTCTTTTAGCCATGTAGAACTCTAAATTAAGCCAATATTCTCATTTGAGAATGAGG  
 ATGTCTCAGCTGAGAAACGTTTTAAATCTCTTTATTACATAATGTTCTTTGAAGGGTTTAAAC  
 AAGATGTTGATAAATCTAAGCTGATGAGTTTGCTCAAAACAGGAAGTTGAAATGTTGAGACA  
 GGAATGGAATAATAATTAATTGATACCTATGAGGATTTGGAGGCTTGGCATTTTAATTGCA  
 GATAATACCCTGGTAATTCTCATGAAAAATAGACTGGGATAACTTTTGATAAAAGACTAATTC  
 CTGGCCACTTTGTTCTGTCTTTAATATCTAAATACTTACTGAGGTCCTCCATCTTCTATATTA  
 TGAATTTTCATTTATTAAGCAAATGTCATATTACCTTGAAATTCAGAAGAGAAGAACCATATAC  
 TGTGTCCAGAGTATAATGAACCTGCAGAGTTGTGCTTCTTACTGCTAATTTCTGGGAGCTTTCA  
 CAGTACTGTCATCATTTGTAATGGAATTTCTGCTTTTCTGTTTCTGCTCCTTCTGGAGCAGT  
 GCTACTCTGTAATTTCTGAGGCTTATCACCTCAGTCATTTCTTTTTAAATGCTGTGACTG  
 GCAGTGATTCTTTTTCTTAAATCTATTAATTTGATGTCAAATTAGGGAGAAAGATAGTTAC  
 TCATCTTGGGCTCTTGTGCCAATAGCCCTTGATGTATGTACTTAGAGTTTTCCAAGTATGTT

Table 4

CTAAGCACAGAAGTTTCTAAATGGGGCCAAAATTCAGACTTGAGTATGTTCTTTGAATACCTT  
AAGAAGTTACAATTAGCCGGGCATGGTGGCCCGTGCCTGTAGTCCCAGCTACTTGAGAGGC  
TGAGGCAGGAGAATCACTTCAACCCAGGAGGTGGAGGTTACAGTGAGCAGAGATCGTGCCA  
CTGCACTCCAGCCTGGGTGACAAGAGAGACTTGTCTCCAAAAAAGTTACACCTAGGTGT  
GAATTTTGGCACAAGGAGTGACAACTTATAGTTAAAAGCTGAATAACTTCAGTGTGGTATA  
AAACGTGGTTTTTAGGCTATGTTTGTGATTGCTGAAAAGAATTCTAGTTTACCTCAAAATCCTT  
CTCTTTCCCAAATTAAGTGCCTGGCCAGCTGTCATAAATTACATATTCTTTTGGTTTTTTA  
AAGGTTACATGTTCAAGAGTGAAAATAAGATGTTCTGTCTGAAGGCTACCATGCCCGGATCT  
GTAAATGAACCTGTTTATTGCTGTATTTGCTCCAACGGCTTACTATAGAATGTTACTTATTACA  
ATATCATACTTATTACAATTTTACTATAGGAGTGTAATAGGTCTGCTGTGAATTTTTTGTGCT  
GACTTGAAAGCAAGGATAGAGAAACACTTAGAGATATGTGGGGTGTTTTTTACCATTCCAGA  
GCTTGTGAGCATAATCATATTGGCCTTTATATCTGATGGTCTGAACCTCTAAGTGGGCGGC  
CTACCACCCAGGACCCATAAATGGTGCCTTCTGCTTCTTGTAAATTCATCTCTGCTAATAAATT  
ATAAGAAGCAAGGAAAATTAGGGAAAATATTTTATTTGGATGGTTTCTATAACAAGGGACTA  
TAATTTCTGTACATTATTTTCTATCTTTGCTGTTTCTTTGAGCAGTCTAATGTGCCACACAATT  
ATCTAAGGTATTTGTTTTCTATAAGAATTGTTTTAAAAGTATTCTTGTACCAGAGTAGTTGTAT  
TATATTTCAAAACGTAAGATGATTTTTAAAAGCCTGAGTACTGACCTAAGATGGAATTGTATG  
AACTCTGCTCTGGAGGGAGGGGAGGATGCTCCGTGGAAGTTGTAAGACTTTTATTTTTTGTG  
CCATCAAATATAGGTAAAATAATTGTGCAATTCTGCTGTTTAAACAGGAAGTATTGGCCTCC  
TTGGCCCTAAATGGAAGGGCCGATATTTTAAAGTTGATTATTTTATTGTAAATTAATCCAACCTA  
GTTCTTTTTAATTTGGTTGAATGTTTTTCTTGTAAATGATGTTTAAAAAATAAAACTGGAAG  
TTCTTGGCTTAGTCAAAAACTTAAAAAACGAACGCGTGGGTCNNNNNNNNNNNNNNNNNNNN  
NN  
NNNNNNNNNGGGGGGGCCGTTAACTTTTTTAAAAAAAACCTTCCACCCCTCCCTGGACC  
CGGAAAAAAGGCAATTTGGGGGGTAACTGGTTTTTGGGACTTAAAAAGGGTAC  
AAAAAAGGCATTGGCTCCCAAATTTCAAAAAAAGGGNNNNNNNN

&gt;413

NNCGTCCGGTAGGAAGCTAGGGTTAGAGGCAACCCGTGAGGCTAGAACCCCGAAC  
GTGGTCCGTTGGAGAAAATATGTCCCTCCGGAGGCACATTGGGAACCCTGAGTATCTGATG  
AAAAGGATACCACAGAACCAAGATACCAGCATATCAAATCAAGACTGGACACTGGTGCCTG  
TGTGTATCTTACCAGCTCCCCAGCACTGCCAGACTGTGCCATGAATGGATTATGCTTCTGAT  
GAAATCCCTGGCTGCGTTTTGTTCAAGTCAACACCCGAGGGTCTTGTATATTCTCAAGCACC  
CTCTCTGGGTTTCTGTTTTGCAGCACTGCAGCTGATTAAAGGACACTTTCCAAACCACAGG  
GCTCTCCCTTTATTAGTCCCCACAGTCTTTGCTTGGCTGCATTGTCTCTCCATTCTATCTATA  
TTCAATCTAATTTCCAATTTCTTAGCTTTCTGAAATTCTGTAGGCTTTCTCCACTCAGTCTTTT  
CTAGCCTTATTTTTGTCTTTTTAAAAATTCACCTTCTTTTATTATCTCTAGACAACTATTCT  
TCCCTCTTTCTTCTTTAGGCTTTACTTTTCTGAATATTTGCTAATAGCCTTGACTGTAAGCA  
TCAAACCTATTATAGACTAGGTACTCTTCTTTTATTTGTTGTTTAAATCTGTTTCTTCCGTCA  
AAGGAAGAAATATATGTGAAAGGCTTTTATAAACCAGAAAGCACTATACACACATATCACTTA  
TTGAGGTTAACAAAGGACCACTGTGCCTCTTTTCATGCTTTCTGCTCTTCCAAGCCAAGAGAA  
CTTCTCCATAGAGGAGGGAATATTGAAGAAAAATAAGCCATGGAGTTGTCTCTTAGCAAC  
TGAGTTCGTGCCTTATAAATCTCATCTACTTTAGATTACTGCTGCACAAAATCACTTGCTTTTC  
TTATTGGCTCAGTATAAATAATGTTATTAATTATAGGAAAACAATGGAAAAATCTAAAAAA  
AAAAAAAACCTCGAGACTAGCNN

&gt;414

&gt;415

&gt;416

NNNNNNNNNNNNNNCGANAAATCTTCTAGAATTAATTGAACGGGGGGGACCCATTCC  
GTTACTGGCTGCGGAGGACCGTGGGCAGCCAGGGTCGGTGAAGGATCCCAAATGGCTGG  
GCGAAAACCTTGCTCTAAAAACCATTGACTGGGTAGCTTTTGCAGAGATCATACCCAGAAC  
AAAAGGCCATTGCTAGTTCCCTGAAATCCTGGAATGAGACCCTCACCTCCAGGTTGGCTGCT  
TTACCTGAGAATCCACCAGCTATCGACTGGGCTTACTACAAGGCCAATGTGGCCAAGGCTG  
GCTTGGTGGATGACTTTGAGAAGAAGTTAATGCGCTGAAGGTTCCCGTGCCAGAGGATAAA  
TATACTGCCAGGTGGATGCCGAAGAAAAAGAAGATGTGAAATCTTGTGCTGAGTGGGTGT  
CTCTCTCAAAGGCCAGGATTGTAGAATATGAGAAAGAGATGGAGAAGATGAAGAATTAATT  
CCATTTGATCAGATGACCATTGAGGACTTGAATGAAGCTTTCCAGAAACCAATTAGACAA

### Table 4

418

GAGTTCGACCCACGCGTCCgccataGCCGagcaggTGGATAAAGCTGTGTCCAAAAACcagg  
AGGGATGGAGCAGAGCAACAGGGACCTGAAGCGACTGTAGAGGAAGCTGAAGCTGCGGCT  
TTCGGCTCAGAAAAACCTCAGAGCATGTTTGAGCCACCTCAGGTGTCTTCTCCTGTTCAAGA  
GAAAAGGGATGTATTACCAAGATTCTGCCTGCTGAAGACAGGGCGCTCAGGGAAAGGGGG  
CCCCCCCAGCCACTGCCAGCTGTGCAGCCCAAGTGCCCCGATTAACTAGGAGGAGACCAGG  
CCCGAAGGAAGCTATTTTCAGCAAGTACTCGGAGGCAGCTGAGCTGAGAAGCACAGCCTCCC  
TCTTGCCACTCAAGAATCTGACGTGATGGTTGGGCCTTTCAAGCTGAGGTCCAGGAAACA  
GCGGACTTTGTCCATGATTGAGGAAGAGATCCGAGCAGCTCAGGAAAGGGAAGAGGAGCT  
GAAGAGGCAGAGACAAGTCTTGAGAGTACGCGAGAGCCCCAGGACAAAAGAATGCCCATCA  
CTGCCCTCCAGAACATGCTACAAAAGTGTCCAGGGAATAAGAGAAAGTCAAACCTCCTCC  
ATCCCCCACCACCTGAAGGCCAACGCTTGCAGCCTGACTTAGCCCCCTGAAGAGGCTGCCGGA  
ACCCAGCGGCCCAAGAATCTGATGCAGACCCTCATGGAAGACTATGAGACACACAAATCTAA  
AAGGCGCGAGAGAATGGATGATAGTAGTGTCTCGAGGCCACACGGGTAAATCGAAGAAAG  
AGCGCACTGGCTTTGCGCTGGGAAGCAGGGATCTATGCCAACCCAGGAGGAAGAAGACAAC  
GAATAAACTTCTTCAACCCAGGAAGCGTCTTTGGTGTGGGAGACCAAGAACAACGAAGAA  
TTAACAACTGAAAGCATTTTAATGGAGTATTTATTAAGTGCAAAACAACTCAGCAATCCTTAT  
GTAGACCAGAAGCTGCAATATACAATGATGAAAATGAAACGAAAAGGAAGTCCCCCATCAG  
ACTCTGGACACCCAGGAATCAAAAGAGAAAGGACTTTTTTGGTGACTCAATCCCAGTGTCTG  
GTTTGGGGCCAATCTACAATGGATCCAAAAGGACAAAACATGTTACAAGCAAAATCAACATAG  
TTGCTGCAGGCGGAAGTGAAGCCAGCCTCTGGGCGATGAAGGCACAATGGTGGTAGGGC  
CACTTAGAGAGCAGTAGGGGCCAGGCTGGTGCAGCCTACATGGCACAGGATATTTCCCTGC  
ACCAGTTTCCCACCTGTCACTTGCAGCATCAGAGGGTGTGTCATTAATCCATTTTCTCCAG  
CAGCCATAAAATGAATGGCGTTTCTCTCCATATTTGCCCAGAAGAGGCAGTTATGATTCCACT  
TCTCTACATTTAATTATTTTTAATTGAGAACAACTCATGATCACAATCATAAAATCCATATT  
TAAGACAATAGTTCTTCACTGTCACAAACACAATCTATTCTACATGAGGAGCTGAGAAAGGG  
GAAGAGAAAAACAAACCAATGGATGATGTTAGCTTTAGGATCGTGTCTGCTTATAATATTCA  
CTGATCTGCAGTTTATGAGAACACATTTTCACAGTTATGTTTCTTCATAGGAAAACATATATTTA  
GTGGGCAACAACATATTTTTATGATGGGATGGGGGAGTATATACACGTATAGAATCTGTACGC  
ATTGAACAACCTTGGTTCAAGATGGTGGGGGCATTTTTAGAGCGGCAATAATTGAAAAAAG  
CGGAACCTCGCCTTGGAGAGGTAGATGATAAGAAATAAAAGTGTTTATAACTATTTTGAT  
TATAAAGTGGCCCTTAGAGATGAGAGGAAGAAGATGATGGATTCTTTGGATCAATCAGAAAG  
GAAACACGAAAAGAAAAGTCAGGAAGGTAGAGAGAGAAAAAGGGAGGGAAGGAGAAAGAAT  
GGGAATAAAAATAAGGAGGTAAGAGATACTATTTTTGCTGAGCAACCAGTGTGTTTCAGGATG  
ATACAAAGAAAAATATAGAATAGAAATAAGTGCAGGCTTGAATCAGCTACAAATCCTAAAGA  
TGGGGTGTGTGTGGATGT  
TGTTCATGAGTAAGGGTGTGTGTGTGTGTGTATTAAAAATCCAGAGTGACCGTGGCACTTGG  
GTGTACAGGTAATTCCTCCAGAGCTGTTTGTGCTTCCAGGAGTGGAGTGAGAATTTCTTT  
TTATGAAAAGGGATATAAAGGCACCGAGCTGATGCAGTATTTGTAATATTAAGTTGACCTAAC  
AAGGTATTTGCATGAGTCACAATTACAAAGTTTTGAGCGGTTTTGTAATTTGACATTTAGGAA  
AGTCTCCTATTTATCTCATACTTTACATTGATGCTTAGTATACATAGAGGATGCCAGCTTA  
ATCTTTCTGTCAATTTAAAGCAATATGATAAGGGTATTCAATAATTGGTGCCCTAAATTTCTGG  
ATGAGAAAATTTTCAATTTCTGGCCATGAGAAAAGAAAAAATAAACAGCCTTCTTTTTTTTTCT  
CTTTGTTTTTAAACTGTGGTTTTTTAAAAAAGCAATAATTAACCTCAGACCTCACTAAAAATCAT.  
TTTTGTTTTTATATTGTTATGTCATAAGCTCTATTATGTTATTCTAACAAGTAGCAATTTCAAA  
AATTTGTATGTAGATGTTAACGCACATTTCTTTGCTTTCTTTTATTAGACTAGTGTTGACTTTG  
GGGGGGGACATTTTATCACAATGAGAAGTAGGCCACAAAGTAAAAAATGGAACCATCTACTA  
ACAAGGATCCTTTAAACTGCCAAGGGAGCTCTAACTTGAAGCCACATCCTACAGATGGCAG

Table 4

CCCAAATAGCACATGGGCAATTGGCACCATCTTTATATGGTTGAGTCTCCTGAATATTTTGAA  
TGAATTCTCAACAAAATGTGCTAGCCACTGGGGACGCAAAACAAGTAAGATCCCTGTTGCAA  
GAAATTCATTTTATAGTGAGGGAGGTTGGCATGGAGACTAAAATTCTCAGGAAAATGAGATC  
CGTGTTAGATTAGAAGTCCTGATGTGAAATGGGAGGACTCAGGAAGGAGGATCGTCTTTACC  
TGAGGATTTCTAGCCAGAGGTCCCAGATGCCTGGGCTGAGAACCCAGCGATAAGGGGGCG  
TTCCCAAAGCAGACACAGGGATAAGAACAGAGGAGGCAGCAGCATTGCACAGCCCCAGGC  
ACAGTGGCAGTTAGGATGGCTGGAGAGTAGGATAGTTCTATGGGTTGCCAAAAAATGTGAT  
GCGCTTCATGTTTTCTCTGACTCATGGATCTGGTAGAGACCATAGACATGATATAGACTAACT  
TCCCCATTTTTCACAAGAGGAAACCATCCTTATGACTTACCTTAAAGTTTTTGTCTGTTTTG  
AAGGAAACCATGTGCTTCATGAAACCTACAGTTGACAAGAGAATGTACAGCTAAGAGAAAAG  
CTTAAGAGGCCACACTATTCGCGGAATGGCTTTAGAGGCAGATGAAGTGGTCTTTGACCACA  
GTTGATTGAACCAGAGCACTTATTGCTTAAAGAATAACAGAGTTCTAGAGCTGGGGGTTCTT  
GGGCCATGCTCCGTGTGTGGATAAGGAAAGAAATACTGTTTCTGGGACTCTCCACAGCTCA  
CAAAGCTGTTTTCACTGTGGCCCTACATCTCTTAACTTTTGCTATTACTCCTATGCTGCCTT  
CCGGATTACTGCTGTCTATCTTCTTGCTCCACTCACTGAAGATCCTATTATAATCCCATGAAA  
ATGTAAATTACAGTTTACTTGGGAGAGCCAGATTTTCTCTGTGCTCTTGAGTTTTTATTCATT  
CAAGAAACCTTGGGCCACCGCTTGTACATAGCACCGTGCTAGGCTCTGGGATCCCAAATG  
GACCTTTTAACTTTCTGAAGATGGGACCGTCCCCTGGAGGAAAGTCATTCTGCCTAATCC  
ATCGAGAGAAAAGAGGCTTACGAAAAACTTTGCCTCTGATGCTCAGCCCCACCCCAATAGC  
ACACAAGCTTGTTAACCCACCTCTTACAAAATGTTTAGATTCTGTAGGTGTTAAAAGCCTTT  
CTGGAAGTATTGCATTCTGCCGTGTTTATAGGTGTTCACTTTCTCCAGAGCTGATTAACCTAC  
TGACATGACTTGGCTTTCTCATCCAGAAATTATGGAAACAGGGTCTGTCAGTGGCAGGAGGC  
CGTGCTGTGTTTTACTTGGATGACACAATGCAGTTTACTTGCCTCTTCATACCCATGCATGCT  
GCTCACCCATAGACAATGACATATAAGCCGTATATAGATCAATGTCCACATATATACACACA  
CACATATATATATAAAGTGTAAACAAGGAACACTAAAACAGTGTTGATTCTTGTCTCTGAAG  
ACAAATAATTAACCTTTTTTTTCCCAACTAAAGAATGGATTTAATTAACTATGTATTGAAAAA  
AAAGTAGCCTAAGTGTTAGAGATGGTGAATATATTCATTTTAGTTAAAGAACAAATTTCTG  
AATTTTAAGCATTCAAGTGAAGCTGCCAATTTTGATTTGTGTTGCTCTTACCCAAATTTATTTT  
CTTTGTTTTCTTTTTTTGGGGGAGGAGGGGAAAAAGCAGCAATACTGTGTTTGGAAATTTAT  
ACTCTGTATCTGGTTTTCTGTGTATGTTAACCACCTTAAATGTTATTATCCTGCTTTGGTTTTA  
GAGTGATTGTGAGGCATTCAATGCAAGTATACAGTTATTTTCTCATTAAATCCAATGTGTGTc  
gaaaaaaaaaaaaaacaagatttctgaagaganttggtgtattggtgacctgagtgtgatttacaagaaccatttggataggt  
gggtcattgcagcagccggatggaatggttgaagagggaaaggaaggttgcag

&gt;419

NNNNNNNNNNNCCGAGGTACAGTATATTGACCTTAAAAATCAGTAAAGCAGTCATGG  
AAATAACAGGTCGTGTATTATTCATGGGCACAACTGACTCATGGCTGGGGAAGAAGCAGCC  
ACCTTAGACCAGATGGACAAGCCAGATACTGCAGAGAAGTTTCTGGGCTTTTCGGGGAAGA  
CTCTAGATTCAATTCTGTAAAGTTATGATGCAGTTTCTCCTTCTCCTCTCACCTCCTCTG  
AGCACAGCTTTCAACAAAACTTTGCATACCCGCGTNNNNNNNNNNNNNNNNNNNNNNNG  
TACTTCTCTGAGCATTGGCCTCTGGCTGGGATTATGCTTCAACAGTCTTGAATGAGGTCCC  
TGGCTCCCTCTGTTACAAAGTCAGGGAATGTGAATTAACCCGCTGATATTCTTTGTAGGTCT  
CTTGGTATGTGTTTGCCTCAAAAGGAGGCTTCCCAACTAAAAATTCATAGCAAAGAACTCCAA  
GGCTCCAGAGATCCACCTTCTCATCATGCATGCGACCTTCAATCATTTCAANNNNNNN

&gt;420

&gt;421

NNCGTCCGCCCCTGCTGAAGCCGGCTGTCCGTCTCCGTGTGCGCGCCGCGCCCG  
GCATCGTGGAGCTGGGGCCCCCTTTTGCTGGGAGTTTTGTAGTCGCCTAGGGTCAGCGGT  
GACATCCCAAAGGGCAGGCCCGGCAGCCGCCATGGTGGCCAAGGATTACCCCTTCTACCT  
CACGGTCAAGAGAGCGAACTGCAGCCTGGAGCTACCTCCGGCCAGCGGTCCGGCCAAAGGA  
CGCTGAGGAGCCTAGTAATAAACGGGTCAAACCCCTTTCCCGAGTCACGTCGCTAGCAAAC  
CTCATCCCGCCCGTGAAGGCCACGCCATTAAAGCGCTTCAGTCAAACCTGCAGCGCTCCA  
TTAGCTTCCGCAGTGAGAGCCGCCCTGACATCCTCGCCCCCGACCCCTGGTCCAGAAATGC  
CGCCCCCTCGAGCACGAAACGGAGAGATAGCAAGCTGTGGAGTGAGACCTTCGATGTGTG  
CGTCAATCAGATGCTTACATCCAAGGAAATCAAACGTCAGGAGGCGATCTTTGAGCTTTCCC  
AAGGAGAAGAAGACTTGATAGAAGACTTGAAATTAGCAAAAAAGGCCTATCATGACCCCATG  
CTGAAACTCTCCATAATGACAGAACAAGAGTTGAATCAAATTTTGAACACTGGACTCTCTA

Table 4

ATTCCTCTACATGAAGAGCTCCTTAGTCAGCTTCGAGATGTTAGGAAGCCTGATGGCTCGAC  
TGAACATGTTGGTCCCCTCCTCGTGGGCTGGCTCCCTTGCCCTCAGCTCCTATGATAGCTACT  
GCAGCAATCAAGTAGCCGCCAAAGCTCTGCTGGACCACAAAAAGCAAGATCACCGAGTCCA  
GGATTTCTACAGCGATGTTTAGAATCCCCCTTAGCCGCCAACTAGATCTCTGGAATTTCT  
CGATATTCCAAGAAGCCGCTGGTAAAATACCCTCTGCTTCTCCGAGAAATCTTGAGGCACA  
CACCAAATGATAATCCAGATCAGCAGCACTTGAAGAAGCTATAAATATCATTAGGGAATT  
GTGGCAGAAATCAACACCAAGACTGGTGAATCTGAATGCCGCTATTATAAAGAGCGGCTTCT  
TTACTTGGAAGAAGGCCAGAAAGACTCCCTGATCGACAGCTCTCGAGTCTTGTTGTGTCATG  
GTGAAGTGAAGAACAATCGGGGCGTGAAACTGCATGTTTCTGTTCCAAGAAGTGCTTGTG  
ATCACTCGAGCCGTACCCACAATGAGCAGCTTTGCTACCAGCTGTACCGTCAGCCAATCC  
CCGTGAAAGACCTCCTGCTGGAAGACCTCCAGGATGGAGAAGTGAGGCTGGGTGGCTCCC  
TGCGAGGGGCATTAGCAACAATGAGAGAATTAATAAATCTTTCAGAGTCAGTTTCAAAAAAT  
GGATCCCAAGTCAGACCCACTCGCTACAAGCCAATGACACTTTCAACAAACAGCAGTGGCT  
TAACTGTATTCTGCAAGCCAAAGAAACAGTTTTGTGTGCTGCCGGGCAAGCTGGGGTGCTTG  
ACTCCGAGGGATCGTTCTAAATCCCACCACCGGGAGCAGAGAGCTACAGGGAGAAACAAA  
ACTTGAGCAGATGGACCAATCGGACAGTGAGTCAGACTGTAGTATGGACACGAGTGAGGTC  
AGCCTCGACTGTGAGCGCATGGAACAGACAGACTTCTCTGTGGAACAGCAGGCACGGTG  
AAAGTAACGTCTGACAGAAGCATGTGCACCTTCGGGAAGCAGGCCTGCATCTTACCTGTACA  
GTATTTGCATTCACAGATGGAACGGTTTGGAGAAGCACTTTTTCATACTTTTGTGAAAGTAT  
ACATGTTGGCCAGTCTCTCGTATCTGTACCTTTGTCCCTAGTACTGTAAGTCCAATCTGTG  
TGTGTAAGCTGGAATCTGTGGCAACTATTACCCTGTGTTGTATTTCCCAAGTGTCTGGATGG  
ATGGAGAGGTACTCAACAAGTTACTTTAGTTGCTGCTGGATTTAAAAAATAGAAAAA  
GAATCTCAAAACTACTGTTTTACATAGATTGTTTGAAGAGTCCTTCTCTTGTGCTTCTGTACC  
ACTTTCCAGCTCTTAGATGTGGTAGCTAAAGGCACGGAATTTAGACGGCCTTGTAATAGG  
GCATGAGGAACTCATCTGTGATTGGGATGGTATTAGAGAGAGAATCAGGAAAGACCAACTC  
ATGAAGTGAAGTTGGTTTGATCTTACTCACTAGAAAGCTTGAAAACATCCCTGGGGATTCTG  
AAGGCTTAATTTTGCAAAGGAGGATGCATTGTCTGAACCTTTGCAACTTCATCCAGTGCAAGTT  
TGATGCAAGAATGTATTAGGACATAAAATAGAGGCTGACCTTAAAAGGGCCAGGACAGAAGC  
GGCTGCCAGCTCTGAATCTTTAACTGAAATGCACATGGCACCAGGAGGTGTCTCTCATAGTT  
GGTTGCTAGCCTAAAACATCAGAATAGAACCACAAAGGGCTTAGGAAGGCCTGCCAGGATAA  
CAAGAAGGCCCTGTATTCATTGTGTTTCATCTGCCTAGGCCTACTCATTATTTAGAGAATGA  
ATGAAGCAACAAGGAAGAGAGACCATGACTCTATCGATGACACTGTTTATAGAAACACAGGA  
GAGGAAGAATTTGGAATGAAAAGCACTTCGTCAGAACCCTTCTGTGGGAGCCATTGAGAGAAA  
AGCATGGTCCAGTGCCCTTCTGAGAAAGGCCAGAGCTTTGGGCTTTCCTGCTCTGCTTTTGG  
GTCGTCAATTTGCCATCTCTGGTTCTGTGCTATAATCAGAATTGTAATTATGTTCTCCAGAGG  
CCAATTTTCATTAACTCTGATTAATTAGAATCAGCTAGCCAGATTAGTAACCTCTTTGTCCAGC  
CTTGATTTACAGTGCCAGGGTAAAGTGACAGACCTTAAAAACAGCTAAGTACCTAGAAGAGCTC  
CCTGCAAGTGTAATATTAAGGATGACCTGTGCAAAATTATACCCACACCAGCACTAGTGGT  
AATTATTCTAAATTATTGCCAAAAGTTTTTTTTAATCTGTCTTTCAAGTTTACAGAAAAGAAAG  
CAGTAAATGCATTGATGTCAATTTATTATGTACATATATCATGTGCATTCAAGCTGTGTGACAA  
GATATATCAATATAAAAACAAGGTATATACTTTATTATTTTTGAAAACAAGGATATTGTGATCA  
ATTTTACCCTGTAAACATATTTCTGTATTTATAGGTCTTAAACATGATGAATTTTTCTATTAC  
AAGTTTATTTAAAACTGCTTTCTCAAGTCGTTATTGATACAGCAAGTGAACCTGCTGCAGACA  
GAAGCAGAGGAAAGCCAAGAACAGCCTTTATTGGTGAAGAAAAGAAATGAATGATTCTTTGTA  
GGCGCCATCAGCCACTTTTAGAAGCCATCAGCCAGTGTGTTGGGAAAAGAGGTTTGTCAAG  
TGTTGGCCTATGGGAAGGTGGTCAATGAATGTTTTGATGAAATGAATGTTTTGTATAATGGC  
CTTAACTTTCTGGAAGTATTTCAAATAAATTACATTATTAAGTCATCAAAAAAAAAAAAAANN  
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNN

&gt;422

NNNNNNNGCANCNNTTNGAAGTGTCCCCTCCTACTTCTTGCTGCCTCACGGTTGCT  
GTTGCAGACCCAGGAGTCTCTGAAGGCTTCCGCGGCTTTGGGGCCGGTTGTGAGATGCCA  
GGCAGAGGCCGCTGCCCGGACTGCGGCTCCAGCGAGCTGGTGAAGACTCGCACTATTCCG  
CAGAGCCAGCTGGTGTGCTCCGACTCGGCTGCTGTCACCGAGGGGGTCTTACCCT  
ACCTTCAGCGACGAGGGGCAATCTCCGAGAGGTAACATATTCCTGAAGCACAGGGGAAAACG  
AACAAGTTAGTCGCAGCCAGCAACGAGGTCTCCGGCGAGTGAGAGACCTTTGTGAGTTCT  
GCAGTTGCCACCAACATTTGAGGATACCGCGGTTGCCTACTACCAACAGGCATATCGGCAC



Table 4

TCTGGCATCCGAGCGGCCAGGCTGCAAAAGAAGGAGGTGTTGGTTGGGTGCTGCGTCTTAA  
TCACCTGCCGACAGCATAACTGGCCCCCTAACAATGGGGGCCATCTGCACGCTGTTGTATGC  
AGATTTGGATGTGTTTTCTAGCACTTACATGCAGATAGTGAAGCTCCTGGGACTGGATGTGC  
CATCTCTGTGCTTGGCAGAACTGGTGAAGACCTATTGCAGCAGCTTCAAACCTGTTCCAAGCT  
TCACCTTCTGTGCCAGCCAAATACGTGGAAGACAAAGAGAAGATGCTGTCTCGAACAATGCA  
GTTGGTGGAGCTGGCAAATGAGACGTGGCTGGTGACCGGGAGGCATCCCTTGCCCGTCAT  
CACTGCTGCGACTTTCTGGCTTGGCAGTGCCTGCAGCCTGCAGATCGGCTTTCATGTTCC  
CTTGCCCCGATTTTGTAAATTGGCAAATGTGGACCTGCCCTACCCGGCGTCTCCCGCCTGC  
AGGAGCTGCTGGCTGTGCTGCTGCGGATGGCTGAGCAGCTGGCCTGGTTACGAGTTCTGA  
GACTTGACAAACGGTCTGTGGTGAAGCACATCGGTGACCTTCTCCAGCACCGCCAGTCACT  
GGTCCGCTCTGCCTTTCGGGATGGGACAGCAGAAGTGGAGACCCGAGAGAAGGAGCCACC  
GGGGTGGGGACAGGGGCAAGGAGAAGGGGAGGTGGGAAATAATTCTTAGGTTTACCCCA  
GGGGAAGCGGCCCGCCAGTCTGCCCCCTCTCTTGCCACCCCTGCATGTTGAAGTCCCCGAA  
GCGGATCTGCCCTGTACCCCTGTCTCCACTGTCACTGGAGATGAGAACATTTCTGATAGTG  
AAATAGAACAGTATTTGCGTACCCCTCAGGAAGTTAGGGACTTTCAGAGAGCCCAGGCTGCT  
AGACAGGCTGCCACGAGTGTCCCTAACCCCTCCCTGATGGATATCCACTGGGAGCACTTCAT  
CCTGTTCTGACAGCTTGATAACATTCTGTTATAACCAAGGATGGAAGTGTACACCAGTCCG  
TAGGTATTGCTTTTCTGTTTGAAGGAACCAAGAGGGGCTCTGCCATTAGTTGGACCTGGG  
TCCTGGAGTAAAGTCAGGAGTGCAGGGATGACTATAGGTAGGAGAGATTCCCATCCCTTGG  
TGTGGGAGAGCAAGTTGCCTATGTCCATGTTCTGTGAGATGGCTTTCCTCATAGATGGATGG  
GAAAATGTCAGGCTCTTTGCTGCTGGTTTGAATTGGACACACTGCTGCGGCTCCTCCTGCAG  
GCCTGAGGGGGCTTCCCTCTGCTTGTGGAGTGGTTGGCATTCCACAGCAGTATCAACCCTCA  
GAGGAGCGGGAACTGGGGAATTCTGCCCTACGTGCATTACAGGCAATGATGGGTTTGTG  
TGTATGGTGTGATGAGATCCTCTACCTCATAACAAAAGGACAGTGGGTAGACTAAGGCAGTA  
GCTCAAAGGGCTTTGCAAAATTTTAATATATTAACAAAGAGGCATCTGCTAGAAAACATTCT  
ATTGTATAAAACCCGAGTACCCTATAAGGTCTGGATAATTTTTGTTGATTATTCATTGAAGA  
AACATTTATTTTCCAATTGTGTGAAGTTTTGACTGTTAATAAAAAGAACTGTGCAACCATCAAA  
AANNNNNNNNNNNNNNNNNNNNNN

&gt;423

&gt;424

cggacgtaaaaaactcaggcttcaggatctgttgaaagctgcatatcgacactgtgctcctcaaacttggtgatctcctcc  
tccagcaagtctgtccccaccgtgtcgtcctccaccacacactgaatctgtagcttccgataccgtagccgacggcaccagcctggaa  
gccccccagaccagcccgccagctggatagagcgacacagggcctccagctgagccatgtccgtctcatcctccaaggeTTga  
catCCAGCAGGATGGAGGACTTGGCCACCAGTGCAGGCTTCTTggcctctctccgcGTACTGCCGT  
AGCCGCTCCTCCCGCAGCTGTGCCGCCTCCTTGTCTCCTCCTCATTGTCACTGCCAAACA  
GGTCAATGTCATCATCTCTGTCATCTCTGCTGGTGTGGCTGGCTTCCAAGCTGGTGCCCG  
TGGGCTACGGTATCCGGAAGCTACAGATTCAAGTGTGTGGTGGAGGACGACAAGGTGGGGA  
CAGACTTGCTGGAGGAGGAGATCACCAAGTTTGAAGGAGCACGTGCAGAGTGTGATATCGC  
AGCTTTCAACAAGATCTGAAGCCTGAGTGTGTGTACCTGCCCGGGCGGCCGCTCGA

&gt;425

&gt;426

NGGCCGGCCCGCCCGGGCAGGTAATGTGGGAAATGCCTTTTGCCAGAAACCA  
CACCTGACCAACCATCAGCGAACACATACAGGAGAAAAACCCTATGAATGTAAGCAATGTGG  
AAAAACATTCTGTGTGAAGTCAAACCTCACTGAACATCAGAGAACACACAGGGGAGAAAGC  
CCTATGAATGTAATGCATGTGGGAAATCCTTCTGCCACAGATCAGCCCTCACTGTGCATCAG  
AGAAGACACACAGGGGAGAAACCTTTTGGATGTAATGAATGTGGGAAAAACCTTCCGTCAGAA  
GTCGGCCCTAATTGTTACCAAGAGAACTCATATAAGACAGAAACCCTATGGATGTAATCAAT  
GTGGAAAATCATTCTGTGTGAAGTCAAACTCATTGCACATCATAGAACACACACAGGGGAG  
AAACCTATGAATGTAATGTTGTGGAAATCATTCTATGTTAAGTCAAACTAACN

&gt;427

NNNCCGCCCGGCCCGGAGCGCGGGAGGGCAGGCAGGGGCAGGAGCCGGAGGGC  
CCGGGGCGCGCGCGCGGCATGTAGCTGCGGGCTCCCGCGTCCGCGTGAGGCTGTGCGGCC  
GGGGCCCCGCCATGGCTGGGATGGACAGTGGCAACCTGAAGACCGCGAGGCTGTGGCGG  
GACGCCGCCCTGCGTGCCAGGAAGCTGCGGAGCAACCTGCGCCAGCTCACGCTTACCGCC  
GCCGGGGCCTGCCCGGGGCCGGGGCCGACGCGCTCGAGTCCCCCGCCTCCCCCAGCT  
CGTGCTGCCGGCCAACCTCGGGGACATTGAGGCACTGAACCTGGGGAACAACGGCCTGGA

Table 4

GGAGGTACCCGAGGGGCTGGGGTCGGCGCTGGGCAGCCTGCGCGTCCTGGTCCTGCGCA  
GGAACCGCTTCGCCCCGGCTGCCCCGGCGGTGGCCGAGCTCGGCCACCACCTCACCAG  
CTGGACGTGAGCCACAACCGGCTGACCGCCCTGGGCGCGGAGGTGGTGAGTGCTCTGAG  
GGAGCTGCGGAAGCTCAACCTCAGCCACAACCAGCTGCCCGCCCTGCCCGCCAGCTGGG  
CGCTCTCGCTCACCTGGAGGAGCTGGATGTCAGCTTTAACCGGCTGGCGCACCTGCCTGAC  
TCCCTCTCCTGCCTCTCCCGCCTGCGCACCTGGACGTGGATCACAACCAGCTCACTGCCT  
TCCCCCGGAGCTGCTGCAGCTGGTGGCCCTGGAGGAGCTGGACGTGTCCAGCAACCGGC  
TGCGGGGCTGCTGAGGATATCAGTGCCCTGCGTGCCCTCAAGATCCTCTGGCTGAGTG  
GGGCGGAGTTGGCAGCTGCCCGCCGGCTTCTGCGAGCTGGCCAGTTTGGAGAGCCTCA  
TGCTAGACAACAACGGGCTGCAGGCTCTGCCCGCCAGTTCAGCTGCCTGCAGCGGCTCA  
AAATGCTCAACCTGTCTCCAACCTCTTCGAGGAGTTCCCTGCCGCGCTGCTGCCCTGGC  
TGGTCTGGAGGAGCTCTACCTTAGTCGCAACCAGCTCACCTCGGTGCCATCCCTTATCTCG  
GGCCTGGGCGGCTTCTCACCTTGTGGCTGGATAATAACCGCATCCGCTACCTGCCGGA  
CCATCGTGGAGCTGACCGGCTGGAGGAGCTCGTGCTGCAGGGGAACCAGATCGCGGTGC  
TGCCCGACCACTTTGGCCAGCTCTCCCGGGTGGGTTTGTGGAAGATCAAAGACAACCCACT  
GATCCAGCCCCCTACGAGGTCTGCATGAAGGGGATCCCCACATCGCAGCCTACCAGAAG  
GAACTGGCTCATTCCAGCCGGCGGTGCAGCCCCGGCTCAAGCTGCTCCTGATGGGGCAT  
AAGGCTGCAGGAAAGACTTTGCTGCGCCACTGCCCTCACCGAGGAGAGAGTGGAGGATGC  
CCAGGAGGAGGGGACAAGGAGAAGTGCTACCCACCGTCACCTCCCCCTGTGAGCAAGGGC  
ATCGAGGTGACCAGCTGGACGGCCGATGCCTCCCGGGGCTGCGGTTTCATCGTGTATGAC  
TTAGCTGGGGATGAAAGTTATGAGGTGATCCAGCCCTTCTTCCCTGTCCCCAGGGGGCCTATA  
CGTGCTGGTGGTCAACTTGGCCACCTATGAGCCTCGCCACTTTCCTACCACCGTGGGCTCC  
TTCTTGCATCGGGTGGGGCGAGAGTGCCCAACGCGGTGGTGTGCATCGTGGGACCCAC  
GCAGACCTGTGCGGAGAGCGTGAGCTGGAGGAGAAATGTCTGGACATTACCGCCAGATC  
GCCCTGCAGGAGAAGCACGACGCGGAGGGACTGAGCCGCTTGGCCAAGGTGGTGGACGA  
GGCACTGGCCCCGGGACTTCGAGCTGCGCTCTGCCAGCCCCACGCAGCCTACTATGGCGT  
TTCGGACAAGAACCTTCGACGGCGCAAGGCCCATTTTCAATACCTGCTCAACCACCGGCTG  
CAGATCCTCTCCCCCGTGTTCCTGTTAGCTGCAGGAGCCCGCGCCACTTACGACGCCTTC  
GAGACAAGTTGCTGTAGTTGCTGAGCACCGAGAGATCTTCCCCAACTTACACAGAGTACT  
GCCTCGATCCTGGCAGGTGCTGGAGGAAGTGCATTTCCAGCCACCTCAGGCCCAGCGACT  
GTGGCTAAGCTGGTGGGACTCGGCGCGCTTGGGCCTGCAGGCGGGTCTGACCGAGGACC  
GACTGCAGAGTGCCCTCTCCTACCTGCATGAGAGCGGCAAGCTACTCTACTTTGAGGACAG  
TCCGGCTCTCAAGGAGCACGTCTTCCACAACCTCACCCGCTCATCGACATCCGCAATGTCT  
TCTCCAGAGGGATCCCTCTTTGCTGCTGAGCACCTAAGCTGCTCCTAGGGACCAGTGGAGAGGG  
CAAGGCGGAGGGGGGAAAGCTCCCCGCCATGGCGCGGTCCACCCCAGCCAGGAAGTGC  
TCCGGGCCACCCAGCTCCATCAGTATGTGGAGGGCTTTCTGTTGCATGGGCTCTTGCCAGC  
TCATGTCAATCGGTTGCTGCTTAAGCCTCATGTCCAGGCCAGCAGGACTTGACGCTGTTGC  
TGGAGCTGCTGGAGAAGATGGGACTCTGTTACTGCCTCAATAAACCCCAAGGGCAAGCCTTT  
GAATGGGTCCACAGCTTGGTACAAGTTCCTATGCTATGTGCAGAACGAGGTGCCCCATGCA  
GAAGCCTGGATTAATGGGACCAACCTAGCTGGGCAGTCTTTTGTGGCTGAGCAGTTGCAGA  
TTGAATATAGCTTTCTTTTACTTTTCCACCTGGGTTGTTTGCACGCTACAGTGTCCAGATCA  
ACAGCCATGTGGTGCACAGGTGGATGGTAAATTTAGATCTTTGCCTATAGAGGGAAAGTT  
CCTGTGGTTGTGAGTTACAGACCTGCCAGGGGAGTCTGCAGCCAGACACCCTGTCCATTG  
CTAGCCATGCATCATTACCAAATATATGGACCGCATGGCAAGCCATAACCCCTTGGTGGAG  
GAACTGAATGTCCTACTTCAGGAATGGCCTGGACTGCACTACACCGTGCACATTCTCTGTT  
TAAGTGCTTAAGAGAGGATCGCCCAATCCACATGCTTTTCCAGGGGAGTTGCTGAGTCAG  
CCCAGACCGGAAGGAGTGGCAGAGATCATTTGCCCAAGAACGGCAGCGAGCGAGTAAAT  
GTTGCCCTTGGTTTACCCACCCACGCCGACTGTGATCAGCCCCTGTTCCAAGAAGATGTTGG  
TGAAAAGCACAGAAACCAGGAAAAGATAGTGCTTCTTTTCCCTTATGCCATCATTTTACTGTA  
CCCAAACTGTGACTTTAGGAGCACCAATTTTAAAGGGAAGAATGTTGGTGAAGAAGCACAGAA  
ACAGTGACGTTTGTGGCTGTGGAATTTCCATGGAGAAAAGAGAGCATCTGAACACCTGGA  
CCATCTTTTGCACCTGGCAGACCCTCTGCACTACCCCCAGCGTGTTCTGTGAACCTGAGTGA  
CAACGCGTGCTTGCAGGGTGCTTTTGGATGACTGGGGAAGAGGTGGGGAGGGGGTGGTG  
GGGGGAAGCATGGACGAGAACATGGAGCAAATGTTTACAACCTGAACCTCAGAAGTGTGA  
TCCTCCAAGGAGCGCGCTACTTGAAGAAAAGAAAAAAGTGAATGGCTTCTC  
AGGGATTTTGTTCCTGTCACATATAAGCCATAGTTACAGTACAGGTGGCAGTATTTAGAG

Table 4

CACTCAGATTTTCAGTTCTGTTAAATGTGAAAGAGGGATCGACTGACGTTTCATTGCTGTTCCAT  
AACTAGTGATAAATATGTATATGTTTATCTTTATTTTATAATATGCAAATACATTTAAATTTATA  
CAGTTTGAAGCTTCTAGCGTTAGTTCACACTGGGTGCAATATTCTGCATGAGAACTGTGCCA  
AGATGGGGCTGATTTCTTATTTTAGTATAAGACTTTTTGTTTTTCTTTATTCTTTAATCCTCT  
TCACATTAATAAAAAAAAAAATCTCTCTGTTAGCCCATGGATTAAGTGTTGGTTCATAGAGATTG  
CCAATAATCAGAAAGAACCCTAAATGTGCATTTAAGACAGTGTCCCTTCCCTTCTTTCAATG  
AAGGTCCCTGGCCTTATTATTAAATTCAATTCTGGGCACGCTGTGGTGGGGGAAAACTCCTT  
TTGGCTCTTTCCCAACCGGTGTTTATAAAGTGCGCTGGGGCCAAAGATGTGTGGGCACAC  
TTCGGGGGCCAAAAGAAGGACCAAAAAGGTCCATTGCAAACATTTGGAGTCTTAAAGGGGTAA  
AGATATCAGGGAGCAAGTCTGAACTTTACAAAGTGCTCTGTAAATAAGACCCTTACTTAGCA  
GAGCACTTTGCAAACATATTACTTATTAGCAGAGCTCTTTGTAGACCTTCCACATCTGGCTGT  
CAGATCTTAAAGGTTGTGAATTTAGGCTCCAGTTATATTCACTGGAGAGCATAATCCCACACG  
GGTTATTTATAAATACAGAGCCTCTGATTGGACGGTCTCCTGCCAAGAACTAGTAATACCCTT  
GTTTTAAATCTTCACAAGGTAAACTTAAAAAGCCAACCAACAAATTGCTCTCCATTCTACT  
TTTAATTGGGCCAAACAGCATATGCTACAGTAGTAACATGTTTTTCGGAGAGTGTAATAAACT  
CTGTTTACATTTGCCTCCTCCGTGGGTGATCGAAAATGTATAAACTGACTGCTTCTCGCCA  
GCCTCAGACAAGAAGAGTGAGTTGCTGGTACTCGCTACTCTTTTACTTCTTTGTAAAGTATT  
GACTCTTGGAAGGCTACAGTATACAAAGTCTCAACATGTTTTTAAAAGAAATAAGGAGCAAG  
CGACTGCCCTGCTAGAAATCACAAACCGATTTTTGTAGAATATTTTGTGCCCCAGGCATTAAT  
TTCACTGACTCCAGAACCTGCAGTTTCAGAGAATGATTTCTTATGATGATAAAAAATCGAATGGG  
ATCAGACGATGTTTGCATTTTTTAATACTTGAATAGGACACCTCAAGTTTGAGATTTTCATTT  
CTTTTAGAACACAGTCACAAGATTAACTCTGGTGAATCCTTTTGTACAGTTCTCGTGTGTG  
TGCGCGTCTCCGTGTGTGTGTGTGATGTGTGTGTAATACTGAATGGTCACATTTAATTGCT  
TTTTGGACCATTGAATAGTTGGGAAGTAAGAATTTTTTAATTGGCATGAGACGGTTCCTCAAC  
TGTTAAATTAACCAACTTTGACCTGTCTTTAGAAAAAGGCTTATTTGTATGATTTTGGGCTAAC  
TCCCCGGGGACCATATTAATGACAAAAATGCTCCTTTGGGTGACACACCCTACAAAGTATT  
TGCTGTTACGAACATAAACGCCACATTCTAATATCTAATATTTTGGCCAGTGATGTTTTAT  
GCTGTCTATCGAACCCCTAGAGAAGCAGTGTACAGAGGAAACCTTGGTGTACATGTGTCTTAG  
CAAAAGGGTTACCATGATCGAGGGTCATGTGACCAAAAGATGCTCCAGAGAAGCTTGAGAAT  
TTGTTTCAAGTTGGGAGGAGGGTTGGAGATACAAAAATCACTCTGCTCTACAGGACTCTTCA  
GCTGTCTATGCAAGAAATTCGTTTTCTCTTTCAGCACCTGGAAAGACACAGCAGCCCACCG  
AGGCGATAGGTGATTCATAAGCACAAGAGGAATGTTTTCTAAGCAAGGCGTCCCTTGCTC  
TCAAAACAAATGCCCTCCAAGTTTGTTAGGGTTTCTATTCTGCAACTTGTGGTACAAAACCA  
CTTCTGGAATTGTCAAAGCACTGCCAAAATAAATGTTTTTCCCCCTTCTAAGAAAAA  
TGACAGTGCTCATATTTGACACTTGTGTATTGGACTCTCTTTGAATGAATAAAAAGGAAAAG  
GGGTTTGGTGAATTCCTGATGGGGTGCGTGTGTTTTTCATGCCATGGTTTGTGAATTTAA  
TTGTGGTTCCCATTTCTGTTGTGTAAGTGGGCAGAAATTAATAAAGAAAAATCAATAAAAA  
CAAAGAAATGGTTAAANN

&gt;428

&gt;429

NNCGCCGCCGACGCGGGGGGAGGCGTCGGCCACGTTTCAGCGGACACGGGAGCAA  
GATGGCGATTCCGGGCAGGCAGTATGGGCTTATTTGCCAAAGAAAACACAGCAGTTGCAC  
CCTGTTTTGCAAAAACCATCAGTGTGGGGAATGATTCTGATGATGATGATGAGACCTCTGTG  
AGTGAAAGCCTTCAGAGGGAAGCTGCTAAGAAGCAGGCCATGAAACAGACCAAACTGGAAA  
TCCAGAAGGCCCTTGCAGAAGATGCTACTGTGTATGAATATGACAGTATTTATGATGAAATG  
CAGAAAAAAGGAGGAAAAATATCCCAAATGCTTTTGGGGAAAGACAGAAAGCCCAAGTA  
TATTCACAACTTGCTAAAAGCAGTTGAGATCAGAAAAAAGGAACAGGAAAAAGAAATGGAAA  
AGAAAAATACAGAGAGAACGAGAAATGGAAAAGGGGAGTTTGATGATAAAGAAGCATTTGTG  
ACATCTGCATATAAGAAAAAAGTGAAGAGAGAGCTGAAGAAGAAGAAAGAGAAAAAGAGGG  
CTGCTGCACTGGAAGCATGTTTGGATGTAACCAAGCAGAAAGATCTCAGTGGATTTTATAGG  
CACCTATTAAATCAAGCAGTTGGTGAAGAGGAAGTACTAAATGCAGTTTCGTGAAGACAGAT  
CTGGGTATTACAGGGGCGCACACATCCAGGGGGTTCTCCAATGGCAGTACGTTCCAAAAAC  
GAATTACCCACAGACCAACTGCTTGGCTTCCAAGTGGCTGTGCAGTTGAGGAAAAACCCGGAT  
GGAGCACAGTGAAGCTCGCAGCTAAAGCAGGCGATTATGCATCACAAACAGGAACATACAGT  
GGAAGCGCGCAGGGCACAGGGCCCTTAGAACACCCGGAAGATGCTCACGCACACACGGAGA  
GAATCGACCGCCGACCTACGCAAGCACAGAGGCAGGGAGAAGAGCACACAGAGAGCAAG

Table 4

CGCAGGCAGAGAAGGCGGAGCGGAGCCCAAGAGCGCACAGCAGCCACCAACCGTGCGGA  
AAGCAGCAGAAGCGACAGCACACGGGACACAAAGCGACAGCCGTGCGAGGANNNNNNN  
>430

NNCACGCGTCCGGCTAATGAATCTTGGGGCCGGTGTGCGGGCCGGGGCGGCTTGAT  
CGGCAACTAGGAAACCCAGGCGCAGAGGCCAGGAGCGAGGGCAGCGAGGATCAGAGGC  
CAGGCCTTCCCGGCTGCCGGCGCTCCTCGGAGGTCAGGGCAGATGAGGAACATGACTCTC  
CCCCTTCGGAGGAGGAAGGAAGTCCCGCTGCCACCTTATCTCTGCTCCTCTGCCTCCTCCC  
TGTTCCAGAGCTTTTTCTCTAGAGAAGATTTTGAAGGCGGCTTTTGTGCTGACGGCCACCC  
ACCATCATCTAAAGAAGATAAACTTGGCAAATGACATGCAGGTTCTTCAAGGCAGAATAATTG  
CAGAAAATCTTCAAAGGACCCTATCTGCAGATGTTCTGAATACCTCTGAGAATAGAGATTGAT  
TATTCAACCAGGATACCTAATTCAGAAGTCCAGAAATCAGGAGACGGAGACATTTTGTGAG  
TTTTGCAACATTGGACCAAATACAATGAAGTATTCTTGCTGTGCTCTGGTTTTGGCTGTCTG  
GGCAGAGAATTGCTGGGAAGCCTCTGTTGACTGTGAGATCCCGAGGTTCCAGAGGACGGGA  
TACAGCAGGAACGAAAAACATCCGACCCAACATTATTCTTGCTTACCGATGATCAAGAT  
GTGGAGCTGGGGTCCCTGCAAGTCATGAACAAAACGAGAAAGATTATGGAACATGGGGGGG  
CCACCTTCATCAATGCCCTTGTGACTACACCCATGTGCTGCCCGTCACGGTCTCCATGCTC  
ACCGGGAAGTATGTGCACAATCACAATGTCTACACCAACAACGAGAACTGCTCTTCCCCCTC  
GTGGCAGGCCATGCATGAGCCTCGGACTTTTGTGTATATCTTAACAACACTGGCTACAGAA  
CAGCCTTTTTTGGAAAATACCTCAATGAATATAATGGCAGCTACATCCCCCTGGGTGGCGA  
GAATGGCTTGGATTAATCAAGAATTCTCGCTTCTATAATTACACTGTTTGTGCAATGGCATC  
AAAGAAAAGCATGGATTGATTATGCAAAGGACTACTTCACAGACTTAATCACTAACGAGAGC  
ATTAATTACTTCAAAATGTCTAAGAGAATGTATCCCCATAGGCCCGTTATGATGGTGATCAGC  
CAGCTGCGCCCCACGGCCCCGAGGACTCAGCCCCACAGTTTTCTAAACTGTACCCCAATG  
CTTCCCAACACATAACTCTAGTTATAACTATGCACCAAATATGGATAAAACTGGATTATGC  
AGTACACAGGACCAATGCTGCCCATCCACATGGAATTTACAAACATTCTACAGCGCAAAAGG  
CTCCAGACTTTGATGTGAGTGGATGATTCTGTGGAGAGGCTGTATAACATGCTCGTGGAGAC  
GGGGGAGCTGGAGAATACTTACATCATTTACACCGCCGACCATGGTTACCATATTGGGCAGT  
TTGGACTGGTCAAGGGGAAATCCATGCCATATGACTTTGATATTCTGTGCTGCTTTTTTATTCT  
GTGGTCCAAGTGTAGAACCAGGATCAATGAGTCCACAGATCGTTCTCAACATTGACTTGGCC  
CCCACGATCCTGGATATTGCTGGGCTCGACACACCTCCTGATGTGGACGGCAAGTCTGTCC  
TCAAACCTTCTGGACCCAGAAAAGCCAGGTAACAGGTTTCTGAACAAACAAGAAGGCCAAAATT  
TGGCGTGATACATTCTAGTGGAAGAGGCAAATTTCTACGTAAGAAGGAAGAATCCAGCAA  
GAATATCCAACAGTCAAATCACTTGCCCAAATATGAACGGGTCAAAGAAGTATGCCAGAGG  
CCAGGTACCAGACAGCCTGTGAACAACCGGGGAGGAGTGGCAATGCATTGAGGATACATC  
TGGCAAGCTTGAATTCACAAGTGTAAAGGACCCAGTGACCTGCTCACAGTCCGGCAGAGC  
ACGCGGAACCTCTACGCTCGCGGCTTCCATGACAAAGACAAAGAGTGCAGTTGTAGGGAGT  
CTGGTTACCGTGCCAGCAGAAGCCAAAGAAAGAGTCAACGGCAATTCTTGAGAAACAGGG  
GACTCCAAAGTACAAGCCCAGATTTGTCCATACTCGGCAGACACGTTCTTGTCCGTGCAAT  
TTGAAGGTGAAATATATGACATAAATCTGGAAGAAGAAGAAGAAATTGCAAGTGTGCAACCA  
AGAAACATTGCTAAGCGTCATGATGAAGGCCACAAGGGGCCAAGAGATCTCCAGGCTTCCA  
GTGGTGGCAACAGGGGCAGGATGCTGGCAGATAGCAGCAACGCCGTGGGCCACCTACCA  
CTGTCCGAGTGACACACAAGTGTATTCTTCCCAATGACTCTATCCATTGTGAGAGAGAAC  
TGTACCAATCGGCCAGAGCGTGGAAGGACCATAAGGCATACATTGACAAAGAGATTGAAGC  
TCTGCAAGATAAAATTAAGAATTTAAGAGAAGTGAGAGGACATCTGAAGAGAAGGAAGCCTG  
AGGAATGTAGCTGCAGTAAACAAAGCTATTACAATAAAGAGAAAAGGTGTAAAAAGCAAGAG  
AAATTAAGAGCCATCTTCACCCATTCAAGGAGGCTGCTCAGGAAGTAGATAGCAAACCTGCA  
ACTTTTCAAGGAGAACAACCGTAGGAGGAAGAAGGAGAGGAAGGAGAAGAGACGGCAGAG  
GAAGGGGGAAGAGTGCAGCCTGCCTGGCCTCACTTGCTTACGCATGACAACAACCACTGG  
CAGACAGCCCCGTTCTGGAACCTGGGATCTTTCTGTGCTTGCACGAGTTCTAACAATAACAC  
CTACTGGTGTGCGTACAGTTAATGAGACGCATAATTTCTTTTCTGTGAGTTTGTCTACTGG  
CTTTTTGGAGTATTTTGTATGAATACAGATCCTTATCAGCTCACAAATACAGTGCACACGGT  
AGAACGAGGCATTTTGAATCAGCTACACGTACAATAATGGAGCTCAGAAGCTGTCAAGGAT  
ATAAGCAGTGCAACCCAAGACCTAAGAATCTTGATGTTGGAAATAAAGATGGAGGAAGCTAT  
GACCTACACAGAGGACAGTTATGGGATGGGAGGGAAGGTTAATCAGCCCCGTCTCACTGCA  
GACATCAACTGGCAAGGCCTAGAGGAGCTACACAGTGTGAATGAAAACATCTATGAGTACAG  
ACAAAACCTACAGACTTAGTCTGGTGGACTGGACTAATTACTTGAAGGATTTAGATAGAGTATT

Table 4

TGCACTGCTGAAGAGTCACTATGAGCAAAATAAAACAAATAAGACTCAAAGTCTCAAAGTG  
ACGGGTTCTTGTTGTCTCTGCTGAGCACGCTGTGTCAATGGAGATGGCCTCTGCTGACTC  
AGATGAAGACCCAAGGCATAAGGTTGGGAAAACACCTCATTTGACCTTGCCAGCTGACCTTC  
AAACCCTGCATTTGAACCGACCAACATTAAGTCCAGAGAGTAACTTGAATGGAATAACGAC  
ATTCCAGAAGTTAATCATTTGAATTTCTGAACACTGGAGAAAAACCGAAAAATGGACGGGGCA  
TGAAGAGACTAATCATCTGGAACCCGATTTTCAGTGGCGATGGCATGACAGAGCTAGAGCTC  
GGGCCCAGCCCCAGGCTGCAGCCCATTCGCAGGCACCCGAAAGAACTTCCCCAGTATGGT  
GGTCCTGGAAAGGACATTTTTGAAGATCAACTATATCTTCTGTGCATTCCGATGGAATTTCA  
GTTTCATCAGATGTTCCACCATGGCCACCGCAGAACACCGAAGTAATTCCAGCATAGCGGGGA  
AGATGTTGACCAAGGTGGAGAAGAATCACGAAAAGGAGAAGTCACAGCACCTAGAAGGCAG  
CGCCTCCTCTTCACTCTCCTCTGATTAGATGAACTGTTACCTTACCCTAAACACAGTATTTT  
TTTTTAACTTTTTTATTTGTAACTAATAAAGGTAATCACAGCCACCAACATTTCCAAGCTACCC  
TGGGTACCTTTGTGCAGTAGAAGCTAGTGAGCATGTGAGCAAGCGGTGTGCACAGCGAGAC  
TCATCGTTATAATTTACTATCTGCCAAGAGTAGAAAGAAAGGCTGGGGATATTTGGGTTGGC  
TTGGTTTTGATTTTTGCTTTGTTTGTGTTTGTACTAAAACAGTATTATCTTTTGAATATCGT  
AGGGACATAAGTATATACATGTTATCCAATCAAGATGGCTATAATGGGCTTTCTCAGAGATAA  
AACTTGACCCCCGTGTCAAATTGACATCACACTCTGCATGTCTGCGTAATGAAGGTACGATG  
CAACTATAACCAAGTGCAATATGACACTGACACTATATTAATTAATAATACNN

&gt;431

&gt;432

CGGGCAGGTACGCGGGATTTACCGGGCAGTCAAAGATCTATTCCTACATGAGCCCC  
AACAAATGCTCTGGAATGCGTTTCCCCCTTCAGGAAGAGAACTCAGTTACACATCACGAAGT  
CAAATGCCAGGGGAAACCATTAGCCGGAATCTACAGGAAACGAGAAGAGAAAAAGAAATGCT  
GGGAACGCAGTAAGCAGTGGTAACAACGCAGAGTCCCGGGAAGCAGTGGTAACAACGCAG  
AGTCCCGGGAAGCAGTGGTACCTCGGCC

&gt;433

GCGGCCGCCCGGGCAGGTACAAATCTACCTCCCCACCAATGTCCTTAGAGGGCC  
AAAGATGGCCTTTGTTTCTTCATGATAACATCGCCTTTCTTTTTTTTTTTTGGAGACACGGTTTC  
ATTCTGTCACCCAGGCTGGAGTGCAGTTGTGCATTCATGGCTCACCACAGCTCTTGAACCCC  
CAGGCTCAGGTGATCCTCTCACCTCAGCCTCCCCAGTAGCTGGGACTACAGGGGCACACCA  
TCAAGCCCCGGGTAATTTTTGAAATTTTTATAGAGACAGGATTTTACCATGTTTCCCAGGCTG  
GTCTTGAATTCCTGGGCTCTAGTGATTCTCTGCCTTGGCCTCCCAAAGTGCTGGGATTACA  
GGCATGAGCCACCACACCCACCTGTCTATTTTACAATTTTCTTTGAGCTCTTTTTCCAGC  
AGTCATGAAGCTGGCAAATGGCAGAACTGGAGCTAGAACTGCTGACTCCCTTTATCTTTTC  
CATAGCACCCCAAGCCTAAAACCAAGACTGGCACAAATGGTA

&gt;434

GGGAGTCGACCCACGCGTCCGTCTAGATCGCGCCCGGCCTTTGTTTTACCATTAA  
AATAGTATCTAAAAAATCATTACTTCTCCGAGCCCTTCTTAGCTATGGTGAATGTGATGGAC  
TTAAGTGCTTTGAGATCTCTAGTATCAAAGATGTATTTACAAATATGATGAAATAATAGTGACA  
TCAATTAAGAGCTCCAAAATATGAAAATCCAACAAATAGAATTTTTAAAGCCTGTTCAAAGAT  
TTATATTTTTCATAGGGGGTGCTCAAAGGATTTAAAGGAGAACTAATTCATGTATTTAACAAAC  
ATGATGGTGCCTTGAGGAATACAGAATATTTCAATCACTAAAAGACAATAGTAACATAATTC  
TTCTGGGAGACTCCCAAGGAGACTTAAGAATGGCAGATGGAGTGGCCAATGTTGAGCACAT  
TCTGAAAATTGGATATCTAAATGATAGAGTGGATGAGCTTTTAGAAAAGTACATGGACTCTTA  
TGATATTGTTTTAGTACAAGATGAATCATTAGAAGTAGCCAACTCTATTTACAGAAGATTCTA  
TAAACAAGCATTCTTCAAGAAGACCTCTCTTCTGTGGGTGCAATTGAACTGTTTCATCCGTTCA  
TCTTGCTGAGAGACTTATTTATAATANN

&gt;435

&gt;436

&gt;437

&gt;438

NNNNAGGTGACACTATAGAAGAGCTATGACGTGCGATGCACGCGTACGTAAGCTTG  
GATCCTCTAGAGCGGCCGTCTACTACTACTAAATTTGCGGCCAGCGTCGATCGAACTGGGTT  
AGGTGCCGCTGTTGCTGCTCGTTGAATCTAGAACCGTAGCCAGACATGGGACTGGAGGA  
CGAGCAAAAGATGCTTACCGAATCCGGAGATCCTGAGGAGGAGGAAGAGGAAGAGGAGGA  
ATTAGTGGATCCCCTAACACAGTGAGAGAGCAATGCGAGCAGTTGGAGAAATGTGTAAAG

Table 4

GCCCGGGAGCGGCTAGAGCTCTGTGATGAGCGTGTATCCTCTCGATCACATACAGAAGAGG  
ATTGCACGGAGGAGCTCTTTGACTTCTTGCATGCGAGGGACCATTGCGTGGCCCACTAACT  
CTTTAACTTTGAAATAAATGTGTGGACTTAATTCACCCAGTCTTCATCATCTGGGCATCA  
GAATATTTCTTATGGTTTTGGATGTACCATTTGTTTCTTATTTGTGTAAGTTACAT  
GAACCTCATGGGTTTGGCTTAGGCTGGTAGCTTCTATGTAATTCGCAATGATTCATCTAAAT  
AAAAGTTCTATGATCTGCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACA  
AAAAAAAAACACAACAACAAAGAAAGAGAGACGAGCAAGCAAAAGGAAAAGAGAAAGAA  
AAGAAGCAGGGAACACGAGGAAAGAGAGGGACAGAGAAGAGAGAGGGGTGAAGAAGAAAG  
TAGGAGGGGAAAAGGAGAGAAAACAAAAGAAAAGAACAGGAACACGAGACAGAAATAGAA  
GGAGAAGGAAGGACAGAAAAGAACGAGTGAAGAGGACAGGAGGTAGAGACGATGATGAGA  
GACAGACAGTAGAAGGGAGGAGGAAGGAGAGGAATTCAGAGGGAGATAGAGGAGAAGAAA  
TCAATCAGCGATAGGATGGAAAACGAAAGAGTGATGTGTTGTCAGGTGGAGAAGAN

&gt;439

&gt;440

&gt;441

&gt;442

&gt;443

&gt;444

NNGAGTCGACCCACGCGTCTGTTTTTTTTTGTCTGATAAGAATCTTTTATGTTATT  
CCAATAAAAAATACATTCATACAGAAATATAACAATCTTGCAAAAAACAATTTCAAATAAAATC  
TTGTAACCAAAAATTTACAAAATCTTACAAAGATTCTTTAGATAACAGGGTGCTTCCAAAAA  
AAAAAAAAAAGAAATTTCACTAATAGAAATTTTTTAAATTTCAAGCAAAAAGTTTCTGCTTGA  
TTGAGGCTCAGTTATCACCTGAACAGAATGTACTTCTTTATGTACGTGCTAATTATGAAAATC  
ACAGGCATTGACAGGTACGGTACCCAGCCCCACCCAGGCAACAGCTCCGACATGTTTCGT  
AAGTGAGACAAGCCAGTGCAAGTTTTTTTTTCTTTTTTTTTTGTCTTTTGTCTTACCTTC  
TTGCTTAATGGAATTGTTATGGCTAAGCACATAGAAGGCCAAAAAAGGAGTTTTCCAAACCCA  
GCAATCAAGTGCTTGGATTCTGAATGCCAAAAGAAAAGTGCACCTCCCTCTTAAGTAAAA  
CGAAATGAGTTTCTTAGGTAAATGTATTCATCAGCCCAGATAAAAAAAAAACCAGTTATGTGA  
GCGTTAGTCACTGCTCATTTCAGGAAGATCAAACAAAATACCAGCCCAGCCAGACTCACAT  
GTGTGTATATATATAAAGCAAAGAGCCACACCCACAAGCCAGCAGCTGGGGTGAAAATAT  
CAGCTGTTCCACGCCGTGGGTATTGGCCATTGCGGGGGAAATTTACTCCTTGGGGAAAA  
ACTGGGAGGATTCTACTTGGCTGGGGGAAAAATTTGGGTTTTCTTCTTGGCCTTTAAAGGT  
GTTTCTTTCCAAAAGGTTNCCCGTTGGGGTTAGGCNTACTCTTGGGGGTTNGGTCCNNNNN  
NN

&gt;445

NNNNNNNNNNCTCACTTAGATTTAGACCCAGACAATCCTGAAGTGTCAGAGGCA  
ATGCAGCAGCAGGAGGCTACAGATGTCCACAACAGAGGAGTCGACTCAGAGGAACCCGAG  
TTCTTAGGGCATGAGCGAACCCCTTGCTTTCCCTTCCCTGTCTCCACCATGTGGCCT  
AGGACATGGACACAGCTGTGGAACTGTTCAACAGAGTAGGGTAACTAAAGAACCAGCTTTT  
GGGACACAGACCCGAAAGAGGAGTTCTAAGGGCTGGAAAATACCAAGGAAGTGGCAGAAAG  
AGGAAGCAAACCCATAAAGTTCTATAAACTCCTGTTTATAAATCAAAACACCAAGCCATAAA  
GCTTATAAACTCCTGAGCTCACCCAAAGTTGTATATATATGTGTATCTGACCCATAACAGTGC  
AGTAAAGACGTTGAGAATGAATATGGGATAGCTCACCACTAGGTCCAGACTGACCACTG  
GGTGGCATATACCGAGCAAAGATTCAATAGCATCACAAAGGCTTTGAAACAGAATTGATATT  
GAACCTTCAACCCACAGAAGACTGACCAGAATCTCACTTGAACCCAGCCTGGTAGCATAC  
ACCAAGTCAGAGAGCTCTGCCATTAGGACGGGCAGAAACCGTCAAGATTCACTACTGCTGTT  
TCTCATAAAGGACTCAACAAAAATGAATCTTTAGTGACTTGAACCATAGACTGAAGGAATCCAA  
AGAATGCAGTCATTTTAGTAAAGTACTATCAGGCTTTGTGCTGATTTCTGAACAACTGCAT  
TATATTATGAATCCTAACGGGCGCCGGGAAGCCCGTCTTGGGTCCTCGCTGCTGGCTGCTC  
CCCGTGGTGGTGGATCCTGGAGTTCTCTACGCAGGAGCCAGCGCTCTCCTAGAGGGGGT  
CTCAGATCCTGCGAGGCCAGTTCTTGGAGGGACATGACTAATGAGTCGATCTTTACTCAAT  
TTTTATCAGTTTTATATTATAAGCCTGATTTATGACTGTATTTAATGTTAATAGTGTGCACA  
CTTATCTTTAAACGTCCTGGTGTCTGAGCN

&gt;446

&gt;447

gGAGTCGACCCACGCGTCCGGTGGCTTCTGCGGCGTTTCCACTCTCGCTCTCCTG

Table 4

GCGTTGCCTGATCGCCGCCCATCATGGGTCGCATGCATGCTCCCGGGTGAGCTCGGGGCA  
TCAAGCCGGATTGCTGGGCGGGGGGTGGGAGGAAGACAGGGAGTGTGGGCAGCGGGCCG  
AGGGGATGATGTTCTGGGCTGCTCTGGCACTAGCCGCCACCTCACCTCGAGACTGCTTCTC  
TCCCCGGGAAGGGCCTGTCCCAGTCGGCTTTACCCTATCGACGCAGCGTCCCCACTTGGTT  
GAAGTTGACATCTGACGACGTGAAGGAGCAGATTTACAACTGGCCAAGAAGGGCCTTACT  
CCTTCACAGATCGGTGTAATCCTGAGAGATTACATGGTGTGACACAAGTACGTTTTGTGAC  
AGGCAATAAAATTTTAAGAATTCTTAAGTCTAAGGGACTTGCTCCTGATCTTCTGAAGATCT  
CTACCATTTAATTAAGAAAGCAGTTGCTGTTTCAAAGCATCTTGAGAGGAACAGAAAGGATA  
AGGATGCTAAATTCGGTCTGATTCTAATAGAGAGCCGGATTACCGTTTTGGCTCGATATTATA  
AGACCAAGCGAGTCCCTCCCTCCCAATTGGAATATGAATCATTTTATTGCTTGAGTACACAGA  
CAAATTTATGCGACCAGGGCAGAGGCTGTAGATGATTCACTGAAAAAGAAAAAAGGGGAAA  
GAAAGAAAATCAggaTAATACTAGTCCCTCCACATTCATTAACAGAATCTCCCCACTAATGGT  
GCTATTCTCAAACAGTTAATAAATCCAACTATATAAAGTGCACCAAACTTCTGAATGCCTGA  
ACCAACTCATTGTGTTCAAGCACAATGAATGAAGATGCTCACTCAGaCGTCCAAGGAAGAAC  
TGGCCAACATAAGGAAAAACATTTCTGGTGAAACTGCGAATGTCTGGCAACCAATCATCata  
gTGAGCAATTCATGTGAAAATTAATTCAACTCCTGGGAGtaagGTATGAAAGGAAAATCTAC  
CTACTATCTAAAAGAGAGTCAAAGGGCTTATTCATGGTCTAAATCTGGGGTCTGCAACTATG  
GCCCTCTGCTTGCTTTTATTAAAGACAAGCACCACACCCATTGATTATGTATTGCTGTGG  
CTGCTTTCCCACTACCAGGCCAGAGCTCAAAGAGCAGTTAACAAAATAGCCCCAAGGCTG  
AACATATTTACTACTAGCCCCAAGGCTGAACATATTTACTACTAGGACTTTTACTACTGGCT  
GACTCCTATTCTTGATAACAACGACAAAAGAGTTGATACTTACTATTTCCAATTGGGAGGGAG  
GACTCGCTTGGTCTTATAATATCGAGCCAAACGGTGAATCCGGCTCTATTAGAAATCAGACG  
GAATTTAGCATCCTTATCCTAATAAATAAAATTTGGTGCAATTCAAGAAAACCAACCAAAATGA  
CCTAACATTATCAAACATTAATAAGAGAATGTAGAGCTACCATGCACTTTCTATAATGAAAATC  
TCTTTGGATAGAATTTGAACCTCAAAGCAGCACTACACTGGTTTGTGTACTAAGCCTTGGATA  
ATTCAAACCAGATGCATTACATTTTACCGAAAAAATTTAGTACAAGCAGTCCTACTTAGCACC  
AGGTTTTATTTATTAGCTTACCTTTCTGTTCTCTCAAGATGCTTTCGAACAGCAACTGCTTTC  
tTAATTAATCTAGAgtaCtctcgaggggggc

&gt;448

CGCGGTGGCGGCCGAGGTACTTTTTTTTTTTTTTTTTTTTTTTGTTAGTGTTTTCTGATGTC  
TTTTCTAACAAATCTTTGCCTGCCCAAAAGTCTCAAAAACATTCTCACGTTTCTAGATTTTCTAG  
CTTTAGCTTTTGTGTTGGGACTATGATCCATATTTAGTGAATTTTATTTTGGGGGGGCAG  
GTCCATGTTGCCAAACTGGTCTGGAACCAACACACCCAGCTAATTTTGTGAATTGCGGGT  
ACCAGCACACCGGCGCGCTCCTGGACTGCGCCTTCTACGATCCAACGCATGCCTGGAGTG  
GAGGACTAGATCATCAATTGAAAATGCATGATTTGAACACTGATCAAGAAAATCTTGTGTTGGGA  
CCCATGATGCCCTATCAGATGTGTTGAATACTGTCCAGAAGTGAATATGATGGTCACTGGA  
AGTTGGGATCAGACAGTTAACTGTGGGATCCAGAACTCCTTGTAATGCTGGGACCTTCTC  
TCAGCCTGAAAAGGTATATACCCTCTCAGTGTCTGGAGACCGGCTGATTGTGGGAACAGCA  
GGCCGCAGAGTGTTGGTGTGGGACTTACGGAACATGGGTTACGTGCAGCAGCGCAGGGAG  
TCCAGCCTGAAATACCAGACTCGCTGCATACGAGCGTTTCAAACAAGCAGGGTTATGTATT  
AAGCTCTATTGAAGGCGAGTGGCAGTGAGTATTGGACCCAAGCCCTGAGGTACAGAAGAAG  
TATGCCCTTCAAATGTCACAGACTAAAAGAAAAATATGAGCAGATTTACCCAGTCATGGCAT  
TTCTTTTACAATATCCACAATACATTTGCCACAGGTGGTTCTGATGGCTTGTAATATTGGG  
ATCCATTTAACAAAAGCGACTGTGCACCTGCATCGGGTACCCAGAGCATCGATACTTGCCTT  
CAGCATGATGGATACGCTTGGACAAGCGCTCATTGTTGACGGTGGACCAAACTCCGGAAT  
GGTTTCACTCCGCAGGGCGTGGGAACAACAGGCACGATTAGACAATCGCAACAGGCGCG  
GCGATAAACACAGACCCAGGGGGTTCATTAACCGCATTTAGACCGCGAGCAGGGGTCTCA  
ACCCGCGGGGGGAGGCAGCAACGCACCTTGGTAATGAGCACAGNNN

&gt;449

&gt;450

&gt;451

GCGTCCGATCGCTTTAAAAGCCGGGCTCTAAACTTCCAGAATATCTTTCCACCAT  
CAGCCAAGCTGCGTCTTTCCAACATTTCCCTTCTGTTACAGTGGATGATCTGAAGAACCTTT  
TCATAGAAGCTGGATGTTTCAGTGAAGGCTTTTAAATTTCTTTCAGAAAGATCGCAAAATGGCG  
CTCATTCAATTGGGATCTGTGGAAGAAGCAATTCAGGCCCTCATTGAGCTTCATAACCATGA  
CCTTGGAGAAAATCACCACCTCAGAGTTTCTTCTCAAAATCTACAATCTGACTTTTCTGTGA

Table 4

ATTTTCTCCTAAAACCTGGACCATAATTTTCAGTAAAACCTTCAGACATAGACTGAAGCAGCTC  
AAGACCAATTTTGCCTCTTTACAAAAATAACTCTTTCTGAGTTTGATATTCAAGTATATTTTAA  
AAATCAAGGGATTTTTTTTTTTTGTATTCCCCCTGCCCGCCAGTCAAAGGTTTCTTTCCCT  
TTTTACCATGGTTTCTACAAAAATAACCTTCAGGAAAAAGAAAATCAGGAAAAAAATTTTTTT  
CAATAATCTTATTCCCTATATTAATTAGATTTGAAGAGGATTAACGTTGTTTTAGTTTGGGTC  
CAGATCAGCCTTATACAACATTTCTAAACTCATTTGTACTTTAAAAAATTTAAACACAGACTT  
CTAAAATTACTTGATGTAAGTAATTTAAATCACTTATGACCAAGTTATTAACCTTATGAATCAG  
AAGTCTGACCCTTGTAGGAAATTATTTACATATATAAAGTACATCAGATCTTTGCCATATATTG  
ATGGTTATTATGCATAAACACATTGAGTTGTGTTGGAAGCAGATTTATAAACCTGCATGTTTT  
CTTTGAATGATTTCTTTTTTCACTGTAAGACACTCCTTTAAATAATGCCTATCTTTAACTTTTT  
AAGACTATTTGGAAAAATGCAGTGTCTCAGCTGTCCCCAGGGAAATTAAGTGGAATCAACT  
AAGATCTGTTAATAAGATGTCAGAATAACTAATAATTTTATTAGGAAAAAATCATGTTTTAAAT  
TCAAAATGACACTTATTTGTCAAGTAATATGATCTTGGAAAATTTTAAAGAAAAATACTTAC  
TTATAAACTACTTTTTTATAATTGTTTTAGAAAAAAGTTTACAGTCTTAAGGAAAAATTCAG  
GTCTATCATATGGTTTGACAGATTTTTTAAAAGTTATTTTTGGTAAGGTCTTCTTTTAGAAAA  
AATTAATCTCAAGGGTTTTTTGTACCACTATAATCTCTAATACTTACTCAGAATTACTGTGTAT  
TTACTTAATTTCTTATTATGTGCCTTATTATGTGCTTAAGATACAATAGGTTAGAGTTTAACTA  
AATATCTTGAAAGCTATATTGTGGGCTTGGTAAGCATTTTTTTTTTCTTTCTGTTTTGGTA  
AGGATTTAAAAATTTTTTTCATTGCAATTTTAAAGTGGTTTTCAATAAGTAATAGTTTTTATCAAT  
TTTTGGTGCTTGGTGCAGAGACGGTGTGGGGAAGGGTGAATGGTTTTGGGAATAATTCAGT  
GCACACCTGTAGGCCTCTTTACATTGTGACTGATAGGGGTATTGTCATATCAATTTGGGGCT  
GTAGAGTGCAATCTCAGTTTCATCTTTTTCACCCATCAGAATTTGTCTCAGGATTACTTGGTTT  
TTCTCAGTCCTCAAGCGAGAAGTTGCTTTTTCTTTGTTAATGTGACTTTTCACTTACTGAGTACCC  
ACGTATTTGGAGTATGAGAAGGTGGGTATTCTCATACTCTGTCCCTCTCTTTTTCATTGAA  
TGTAAGAGTACATTTTAAATGTTGCTTCAGTGATTGTATAATGTAAAATTGTTCTTTTTAATAAGA  
AACTTTGCTATTATTCTTTCACTGGTTGGCAAAATGTAAAGCGAAATAGGACAGGTCATTATG  
GTTCCCCTTAACTTTACAATTTATCCACTGTCTCCTACTTAGAACAAAGACAATAGACGGGAA  
GGGGCACTCACCATACACACATAGACGGAACAGAN

&gt;452

NCTTTTTTTTTTTTTTTTATAGTTGTCTTTTTTGGTAACAATGTGTAAAGTGAAAAACAG  
CAGAGTGCTACTCCATACCACTGGGATCTTGTCCAGTAAACATCCAGAGAGTGAGGTTAGGA  
AATAAAAAGTATATAAATATTAGATGCCTAGAAATGCAAGTCACTTTAAAGATTTTATGTGAAA  
TAGAAAAAAAAGAGAGGAGGGGACTCATTGTCTTGAATGGGTCTTCCCAGAGAGAGGT  
GACTGTCCAGTGGCACCGGGCCCTTTTCTCCTTCCCCTTTTACTCTTATCGACTAGGACAG  
AAACTAAGAATTTTGGCTTCAAGTGGCTAAAAGACTGATGGGGGAAAAAGAAAATAGAAAA  
AATAACAGAGAGACTGACGCTCTAGGCAGTTACAAGTCCAAGAAAAAGACAGAACTTTTA  
ACTTTAAGTATTGAGCCAAAACAGGTCTAGCAAACATAATGCTGGCCCTAGATTATTTATTA  
ATTTATGAAGAACTTCTAGATATGGGGGTGACAAAAGGAAATTAATCCATTATATATGCAT  
ATATTTTAATGTAAATATATAATAGATAAATTATGTATACATAATATAGAACCAAATTGAAACAG  
TTTTACAATTTGGTTTGAAGTGGAAATCAAAATCCATATATTAATTTTTGTAGTAAAAGTTTATG  
TAAAAAAGACAAAAAGGACACTGATTGGCTTTTGTTCCTCTACAATATAGGTTCTAACTTAA  
CTTCTAACATTAGCGGCCGGACGCGGTGGCTCACGCCCGTAATCCCAGCACTTTAGCAGGC  
CGAAGTGGGCAGATCACCTGAGGTCAAGAGTTCGAGATCAGCCTGGCCAACATGGTGAAAC  
CCCATCTCTACTAAAAGTACCTGGCCGGGCGGCCGCCACCGC

&gt;453

&gt;454

NNNNNANCTNGAAATNAACCCTCACTAAAGGAACAAAAGCTGGAGCTCCACCGCGG  
TGGCGGCCGCTCTAGAACTAGTGGATCCCCCGGGNCGAGGAATTCGCGGCCGCGTCTGACT  
ACGGCTGCCGAGAAGACGACAGAAGGGGACGGGCGGTGGGAGCTGAGGCTCCTGTCTGTTAT  
CTCTGATCCTTGCACCCTGGCAGGAAGCTGGTAGCTCACACTTTAACGGGAGGCCCTTCACA  
TATTCAGAAAAAGAAACCACTTTGCAGTGCCAGACTGGAAGAAGTAACGGTCACTCTGAAAA  
CAGGGTGGGAGAGCTGCCTCTCTTTGAACCTCTCCAGGACCAACTCTAACCCAGGGAGGC  
AACTTGGTTCGATGTAAGCGGTGGCTTGGAGACAGAATCATCTAATGGAAAAGATACAGTAG  
AAGGTGCTGGGGATACATCAGAGGTGATGGATACTCAGGCGGGCTCCGTGGATGAACAGA  
ATGGCCGACAGTTGGGTGAGGTAGAGCTGCAATGTGGGATTTGTACAAAATGGTTACGGC  
TGACACATTTGGCATAGATACCTCATCTGTCTACCTTTCATGACCAACTACAGTTTTTCATTG



Table 4

CAACGTCTGCCATCACAGTGGGAATACCTATTTCTCCGGAAGCAAGCAAACCTGAAGGAAA  
TGTGCCTTAGTGCTTTGGCAACCTGACATGGCAGTCCCGAACACAGGATGAACATCCGAAG  
ACAATGTTCTCCAAAGATAAGGATATTATACCATTTATTGATAACTACTGGGAGTGCATGACA  
ACCAGACAGAGAACTGGGAAATGACTTGGGCAATAACTGTTTAAACATGAGTACGAAGAGAN  
>455

NAGCAAAGCCACATCAGGACTAATCAGCTGGGCGTAGCCAAAGTTACCTCCTCTCT  
GTTCTTCTTTCTTCTCTGTAGCCCCAAATCACAATGTTTGGTTGGTTTCTCCCCTAAGAAC  
AGCTTTTATTGTCTCTGCTCCCTATCCTGACCCTTCATTGCTGAGGCCTGAGGATCTCTGTCT  
TTTGTTCCTCACCTGTCTGCCTGTCTCCTCTCCTTTCTGCCTGGGGGGACTGTCCAGAAG  
ACATCATCGTCCAGTTCTCTGCATTTGAACAGCTGTTCCCCCACCCTCAATACCGTTTAGA  
GCAGAAGCCAGCAAATACTATCGGTCCAGGGACAGATAGAACTATTTTCGGCTTCATGGGCC  
ACACAGCCTCATTGCAGCTCCTCAAATCTGCTGTTGTAGCAAGAAAGAAGCCATATACCTGT  
TGTAACAAATGAATATGGCTGTGTGCCAATAAACTATTACAAACATAAAGAGTGGGCTG  
GATATGACTCAGATACTGTTGTTTGACAACCCCTGATCTAGAGTAAAAATCCCAAACCTCTATA  
GCCTCCAGCCTGGGAGACAGAGCGAGACTCCGTCTCANAAAAAATAAATAAATAAATAAATA  
AATAAGTAAAAATCATATCCGAGCTGGGCGTGGTGGCTCACGCCTGTCTATCCCAACACTTT  
GGGAGGCTGAGGAGGGGCAAATCACTTCAAGTCAGGGGTTCAAGACCAN  
>456

TTCTCTGACAGGTTTATTAGCTTTTCATGTTAATGGATGTTTTTAAACCCTGCAACCCT  
CTGTCAACTTCTTTCCACATCAAGAGGCCATGAGATACAGTAATGGCCTCTTAAGAGTCATG  
CCACATAAAGATGATGACTTTGATGTCTGGCCTGCCTCCTGTAACAATGTGAGGCTGTTTT  
GGGTACATGCTGTAATAACAACAGGACTATCACAGGAACAATGAAGCAGAGAAGCAGAAGG  
TGCTACAAAGTTTTACCTAAATGTCTTGTGTCAGGATGGAGCTGATGCGCCCATACTGG  
CAGAAACAATTAGCACAGAGTAGTTCTGAAAAGGAGGAAGAATTACAAAGCATCAGTTATGG  
GTGCAGGGGAAGTCGCCATCTGCCaATGGGCACCAGAGTGTCACTGTACTGGAAGGGGAAA  
AGGAGTGGGCTGGATGAGATCCAGGGGCTCTCTGCCCATGTTCAAAGTCAGTAGCTGCTC  
TGCTGCGCGCATCACAGTGTCAACACATTTTGTGTGTCTCACTCAGTCTCACACCCAAG  
AAAGTAAAAACAATTGATGTAGGAATAAGGGAATGGATAAAGAATGGTACATGCTTATTCTA  
AAGCAGGAGAGCCTACAGATTGTTGTCAAAGCTCATGTCTATCTCTGTCTCGAGGccCCAC  
ACCATCTCCCTCTCCCTCCTCCAGAATCCAAGGGATGAGCCCGTTTCCCTTTATGAGACGAG  
GTGGAGCAGTACCTCTAGTTTTTGGCTGCTCATGGCCTCAGAGTTGCTGTTTGAAAGGAAA  
AAGAGCAGCAGAGGCAGCAAAGAAAAGTACTAGGGCAGCACCTTTAGGTTAGAAATAGATT  
CCACAGTTAAAAGCACAAGTATAATATGCATTAAACAGAGAAGGGCCTCAATAGAATGGTCA  
CAATATGCAAGTGTGTCCCACTCATTTACAATATTAGGATTCCAGGAGCTGCCAGAAATAAGT  
CATCTCATTAACATACCTACCTGCAGTTCTGATGTCTGGCTATTAGTAAACAAGGCCTACGTT  
TGTTTCTCTAAAATTTAGAACTCTTAACTAAATCCTTTATTTCAAAAACAAACATAAAATAATTT  
CCCAGGCAGAGAAAAGGTTTGAGATGGAAGCGTTCTTGTTAGCAGTCCCTTCTGCATAAAT  
GGGGTTGGAGAGAGAGAGAGAGGGAATGGCCAAGGGTATGGAAAGCTTTACAATGCAT  
GCCGAGTGTGAAGTGACACCCCAAGCAGATGGGGTTTATCATCTTTACTTAGTCACACAACA  
TCAAGGACTGGTTAGTTCCAGGGAAGGGCTCCATTTACCTGGGTCAGTTCTCTTCCCC  
CGCATGCTCCACAATGCAGTAGAACCACAAACACATTCAATTAACAATAGAAATGTTTAAATAA  
CACCTGTCCAATAACTGCCCTTACTTCTTTGTGCTGTCGGGAAAAAGAAAAACAGAAAGCAA  
TAAACCCCAAACCTTTTGGCAAGCCAGCCGTCCTATTCTCCTGGGGCATTITTTAGTGGAA  
CTTCGGCTGGGCCTTGCCCTCCTCCCAATATCAGTGAGGAAAGTGGCAGCGGGACAGGTTT  
GGTCATCTGCAGTGGAGTAGAAAGAGGAACCAACACGATTGGGGCCACAGGTGGATTCTG  
GCACATTTTTAGATTGGATTGGTTAAAAATGTCATGTTGTACACAGGATGCAGGCAAAGGAG  
TTTTTTTTTTGAGGGACATAATGCCTATAGGCAGCATGAACGGTCCGATCTACCTTGGGGA  
GGAGCTCCCTGTGTAGGGACGGAGAACTAGGGGCCTCGAGGAAGGTGTTGGTTTCGGAA  
GATGGAGGAGACAATCTTTCGGGTGGCATTGATGGTGCCTTCGCTGTCTGAGCTGGACTCG  
GAGTCGCTGCTCCAGAGTAGGCACCCAGGCCTGGGAGGATGCCGATACATACTGCAGCA  
GAGGGGCAGTGGATGGAGGGGGCACTCAGGGAGGTGTTCCGAGAGACTTGCAGGATGAG  
GGCTCTTGATTCTTGTCTGCTGCTCAGGGTCCGGTTTCAGTCTTTTCACTGTTGCCACT  
CTCTGAGCTCTTATGCTTACAGCTCCTGCCAACAGCTTCGCTGGGAGAACTGTTCTTGG  
TTTCTATAGGCTTCACAGTCAGTTCTTTTCCACTTCCCTTCTTGTCTCTTGGAAATTCACAC  
CTTCTTGAGGTTATTTCTGTATTCTTCACTTCTTTCAGTTCTTCTCTCTTCTTCTTCTTCTA  
TTAGTTCTGCTGTGAGAAACCTCATCAAGGAAGTTGGTCTCATCTTCATCTAAGCCTCTTA

Table 4

CCATGTTTTTGAATTTGAACTGTTCCCTCGTACTCCTGCTGCTTCCTGTCTTCTGTTCCCTGTA  
GCCTTTCATATAGAGATCGAGGGTCATAAACCTCCTCTGGACATTCTTCTGGATCTTCAGGTT  
TTCGAACTTTCTCCCATTCTTCTGCTCCTTTTGGCCGTTTCATCTAGTTCTGCCTCAGACA  
CAAACCTCTTTTTGATAATAAGGTTACCATCATCCCTCCATCCATAATGAAACAACCAATCT  
GCTCTTGCTCCAAGTAGATTAAGATGGAGAATCTCAGCTATTGAAGACTTAGTGTTCAAGTC  
CAGTCTACCGGCGCGGGAGGCGAGACGACCTCACCTCGGCGGCGCCACCCCAAACC  
GCCACCGCAGAGCCGCTCGCTCTTAAAAAAGAAAAAAATGAAAGGAAGAAAGAAAGAAAC  
AGAGGAAGGAAGGAATGAAAGAAAGAAAAAAGAAAAATAGCCTTTGCTTTTGTATTTCT  
TTTGAcCcttCAGGGCTTcctcgGAcgc

&gt;457

&gt;458

NNCACGCGTCCGGCTAATGAATCTTGGGGCCGGTGTGCGGGCCGGGGCGGCTTGAT  
CGGCAACTAGGAAACCCAGGCGCAGAGGCCAGGAGCGAGGGCAGCGAGGATCAGAGGC  
CAGGCCTTCCCGGCTGCCGGCGCTCCTCGGAGGTCAGGGCAGATGAGGAACATGACTCTC  
CCCCTTCGGAGGAGGAAGGAAAGTCCCGCTGCCACCTTATCTCTGCTCCTCTGCCTCCTCCC  
TGTTCCAGAGCTTTTCTCTAGAGAAGATTTGAAGGCGGCTTTGTGCTGACGGCCACCC  
ACCATCATCTAAAGAAGATAAACTTGGCAAATGACATGCAGGTTCTTCAAGGCAGAAATTTG  
CAGAAAATCTTCAAAGGACCCTATCTGCAGATGTTCTGAATACCTCTGAGAATAGAGATTGAT  
TATTCAACCAGGATACCTAATTCAAGAACTCCAGAAATCAGGAGACGGAGACATTTTGTCTG  
TTTTGCAACATTGGACCAAATACAATGAAGTATTCTTGCTGTGCTCTGGTTTGGCTGTCTG  
GGCAGAGAATTGCTGGGAAGCCTCTGTTGCACTGTGAGATCCCCGAGGTTTCAAGGACGGA  
TACAGCAGGAACGAAAAAACATCCGACCCCAACATTATTCTTGCTTACCGATGATCAAGAT  
GTGGAGCTGGGGTCCCTGCAAGTCATGAACAAAACGAGAAAGATTATGGAACATGGGGGGG  
CCACCTTCATCAATGCCTTTGTGACTACACCCATGTGCTGCCCGTCACGGTCCCTCCATGCTC  
ACCGGGAAGTATGTGCACAATCACATGTCTACACCAACAACGAGAACTGCTCTTCCCCCTC  
GTGGCAGGCCATGCATGAGCCTCGGACTTTTGTGTATATCTTAACAACACTGGCTACAGAA  
CAGCCTTTTTTGGAAAAATACCTCAATGAATATAATGGCAGCTACATCCCCCTGGGTGGCGA  
GAATGGCTTGGATTAATCAAGAATTCTCGCTTCTATAATTACACTGTTTGTGCAATGGCATC  
AAAGAAAAGCATGGATTGATTATGCAAAGGACTACTTCACAGACTTAATCACTAACGAGAGC  
ATTAATTACTTCAAAATGTCTAAGAGAATGTATCCCCATAGGCCCGTTATGATGGTGATCAGC  
CACGCTGCGCCCCACGGCCCCGAGGACTCAGCCCCACAGTTTTCTAACTGTACCCCAATG  
CTTCCCAACATAACTCCTAGTTATAACTATGCACCAAATATGGATAAACACTGGATTATGC  
AGTACACAGGACCAATGCTGCCATCCACATGGAATTTACAAACATTCTACAGCGCAAAAGG  
CTCCAGACTTTGATGTGAGTGGATGATTCTGTGGAGAGGCTGTATAACATGCTCGTGGAGAC  
GGGGGAGCTGGAGAATACTTACATCATTACACCGCCGACCATGGTTACCATATTGGGCAGT  
TTGGACTGGTCAAGGGGAAATCCATGCCATATGACTTTGATATTCTGTGCTTCTTTTATTCT  
GTGGTCCAAGTGTAGAACCAGGATCAATAGTCCACAGATCGTTCTCAACATTGACTTGGCC  
CCCACGATCCTGGATATTGCTGGGCTCGACACACCTCCTGATGTGGACGGCAAGTCTGTCC  
TCAAACCTTCTGGACCCAGAAAAGCCAGGTAACAGGTTTCAACAAACAAGAAGGCCAAAAT  
TGGCGTGATACATTCTAGTGGAAGAGGCAATTTCTACGTAAAGGAAGGAATCCAGCAA  
GAATATCCAACAGTCAAATCACTTGCCCAAATATGAACGGGTCAAAGAAGTATGCCAGCAGG  
CCAGGTACCAGACAGCCTGTGAACAACCGGGGCGAGAAGTGGCAATGCATTGAGGATACATC  
TGGCAAGCTTCGAATTCACAAGTGTAAGGACCCAGTGACCTGCTCACAGTCCGGCAGAGC  
ACGCGGAACCTCTACGCTCGCGGCTTCCATGACAAAGACAAAGAGTGCAAGTTGTAGGGAGT  
CTGGTTACCGTGCCAGCAGAAGCCAAAGAAAGAGTCAACGGCAATTCTTGAGAAACAGGG  
GACTCCAAAGTACAAGCCCAGATTTGTCCATACTCGGCAGACACGTTCTTGTCCGTGCAAT  
TTGAAGGTGAAATATATGACATAAATCTGGAAGAAGAAGAAGATTGCAAGTGTGCAACCA  
AGAAACATTGCTAAGCGTCATGATGAAGGCCACAAGGGGCCAAGAGATCTCCAGGCTTCCA  
GTGGTGGCAACAGGGGCAGGATGCTGGCAGATAGCAGCAACGCCGTGGGCCACCTACCA  
CTGTCCGAGTGACACACAAGTGTTTTATTCTTCCCAATGACTCTATCCATTGTGAGAGAGAAC  
TGTACCAATCGGCCAGAGCGTGGAAGGACCATAAAGGCATACATTGACAAAGAGATTGAAGC  
TCTGCAAGATAAAATTAAGAATTTAAGAGAAGTGAGAGGACATCTGAAGAGAAGGAAGCCTG  
AGGAATGTAGCTGCAGTAAACAAGCTATTACAAATAAGAGAAAGGTGTAAAAAGCAAGAG  
AAATTAAGAGCCATCTTCAACCATTAAGGAGGCTGCTCAGGAAGTAGATAGCAAACCTGCA  
ACTTTTCAAGGAGAACAACCGTAGGAGGAAGAAGGAGAGGAAGGAGAAGAGACGGCAGAG  
GAAGGGGGAAGAGTGCAGCCTGCCTGGCCTCACTTGCTTACGCATGACAACAACCACTGG

### Table 4

[illegible]

>459  
ACCATGGGTGGTTAGTAGACCCCTCAGATTGATGACATTGTAAAAGCTGTTGGTAACT  
GCAGCTACAACCAACTAGTGGAGAAAGATCATCTCTTTGTAACAGCTCAGACAATAGTGAGCTG  
GTAGTGAAGGCTTTGTAGTCTGAGCAGTTTCTAAATAACACAGCCACTCAACTGACATACCAT  
GGATTATGTGAACTAACTTCAACGGTTCAGGAAGGAGAACTTTGTGTGTTCTTTCGGAATAA  
CATTTTAGCACCATGACCAATACAAGGGTCAACTGTATTTGTTGGTAACGGACCAGGGGT  
TCTTACTGAAGAGAAAAGTTGTTTGGGAAAGCCTACACAACGTAGATGGTGATGGAAATTTCT  
GTGACTCAGAATTTTCATCTTCGACCTCCTTCAGATCCTGAAACTGTATACAAAGGACAACAAG  
ATCAGATAGATCAGGATTATCTTATGGCATTATCTCTACAACAAGACAGCAGAGCCAAAGAG  
ATCAATTTGGGAACAAATCCCGGAAGGAATCAGTGATTTGGAACATAGCAAAGAACTCCAAGA  
GGAAGAGGACAGACGGGCTTCTCAATACTATCAGGAACAGGAACAAGCAGCAGCTGCTGCT  
GCTGCTGCTTCTACACAGGCTCAGCAGGGCCAGCCAGCACAAAGCCTCTCCATCAAGTGGA  
GACAATCTGGGAATAGTGAACGTAAACGGAAGGAACCACGAGAAAAAGATAAAGAAAAAGAA  
AAGGAAAAAAATAGCTGTGTTATTTTGTAAACAAGTGTTGGCTTCTGTTGGAACCCATATATG  
TCTTGAGAAAAACAAACACAGGAGGAAAGGAAGAAAAACCGATCAATACCGTCTGTGCGCTGA  
TTTCTTAATGGATTTTGTTCGTTTTTTCAGGGGAACGGTTGTTACTTAGTTACAATCAGACTTT  
TTCAAGTCACACAATACACTCTTTATGAGCTGGAGTTTCATGTTACAAGTTGGAAATGCTGTG  
TGTTGTCATTTCATGAAAAATACTGCACTTGTAGCCAGATTAGCAAATCACAGCAAATTTTGTG  
TCATAGTGACATTTCATAACTCATATCAGTTAGTAAGCTATTATATCTTCTGTTCTAACAATGAA  
TGGAGGTAATTGATTTAGTCTGATTCCCTTCTGAAATCTAAATATTAGCACAAATAGTTTCTGAA  
ATTTTACAATGTTAAATTATGATCTAATTCATGAGAAACCACGGGTTTAAATAGGATTCAAA  
AAAACAAAAAC

>460  
TGGCGGCCGAGGTACGAATGTGCAAAATTAAAGCATGGTAACTGATATTTACATAA  
ATATCAAACCAACAATTAGTTTATACATTGTCAATGACCTTCTAAGATATGTCATGAGTGGAATC  
CAAGAATATATTTCCCCCAATGGAGAAGGTATTCAGAGGCTAAATCCGACACTTTAAAATGA  
CACACATCATAGGCTTTACCTGTTTGACCACTGCCTCAAATGTGTGAGATGTGATTTTATGAT  
CCCCGCTNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNAGACTTCAGGGAAACAACACGTCCTGAAA  
GAAACATGATTCCCCTCAAGCGACAAAGGATTTTCTCATCAAGTGTTCCTACCTCTGCAATTAG  
ATTTGGACACAAGAAGAGGAGCAGCATTTACTCAGGTA AAAATAGTTCTCTTAGTCTCTTCCTC

### Table 4

NCGATTCTGTGTTTCTGCTGAAGTGAGCTTGGTCTTTACACTTGTTTATGGTTATCT  
GTTGTGGTGAGACCCTGCCCTTCCGTAAAAGTGTAAGACTTCCGCGAATTGGTCACCGAGA  
ATCTTGCCGGAACCTTGAGAGTCCAGGGAATTCGGGGCCGCTGTTCAAGATGTCGGACGA  
GTAGATATTTCTCGGCCCGGGGAGAAGGTGAACCGGCCCTCTAAAGCGCCTGCCAGTGC  
AATCTGGGCGATCGCTTCTGGTCCTCGCCTCCTCCGCTGTCTCCTCGGAGTTCTTGCAAGTC  
GGCCAGGATGTCTCAGGCTGAGTTTGAGAAAAGCTGCAGAGGAGGTTAGGCACCTTAAGACC  
AAGCCATCGGATGAGGAGATGCTGTTTATCTATGGCCACTACAAACAAGCAACTGTGGGCG  
ACATAAATACAGAACGGCCCCGGGATGTTGGACTTCACGGGCAAGGCCAAGTGGGATGGCTG  
GAATGAGCTGAAAGGGACTTCCAAGGAAGATGCCATGAAAGCTTACATCAACAAAGTAGAAG  
AGCTAAAGAAAAAATACGGGATAGAGAGACTGGATTTGGTTACTGTGCCATGTGTTTATCCT  
AAACTGAGACAATGCCTTGTTTTTTTCTAATACCGTGGATGGTGGGAATTCGGGAAAAATAACC  
AGTTAAACCAGCTACTCAAGGCTGCTCACCATACGGCTCTAACAGATTAGGGGCTAAAACGA  
TACTGACTTTCCTTGAGTAGTTTTTATCTGAAATCAATTAAGAGTGATTTGTTACTTTAAAAA  
AAA  
GGAGACAAACAGGGGAACGAAGTAGAAAAAGAGAGAAAAAGCAAAAGGAAAGAAAGAAAG  
AGAGATACGAGGCGAGGATAACAGAGACAGCGCAGAGAGGAGGAGAGAAAGAAAGAGAGAGAA  
GAGAAGGAACAGACGAGAGAGGAGACAGGAAAGAAAGAGAAGGAAGAGGGGAGAGGAGAA  
AAAGAGAGAGACAGAGACGCGGAGAGAAAAAGAGAGAAAGAGAGAAGGAAGAGAAAAAGGCGA  
GGAAAAAGAAGAACAGAAAGAGAAAAAGTAGAGAGAGAGAGAGATACCGAACGAGGAGGAG  
CAAAAGAGGAAAGAAAGAGGACGAAAAGAAAGAGAGGAAAGCACAAACGAGGCAAGAAAAAGA  
GAGAAGAGCGAGGGAGAAGAGAAAAACATAAGAAGGAGAGAAGAAAGAGCGAACGACGAA  
GAGGATGAGAA

>463  
>464

          NNGTGCATGTGTTTCCTTCCCCAAGAGAGCTATAAACAGCAAAAATTCTGCTGTAAG  
CGACCCCCGACCCAGGTCTCCCCCAGCACTGAGGAGCTCGCCTGCTGCCCTCTTGCGCGC  
GGGAAGCAGCACCAAGTTCACGGCCAACGCCTTGGCACTAGGGTCCAGAATGGCTACAACA  
GTCCCTGATGGTTGCCGCAATGGCCTGAAATCCAAGTACTACAGACTTTGTGATAAGGCTGA  
AGCTTGGGGCATCGTCTAGAAACGGTGGCCACAGCCGGGGTTGTGACCTCGGTGGCCTT  
CATGCTCACTCTCCCGACTCTCGTCTGCAAGGTGACGAGTCCAACAGCGCAAAAATGCTG  
CCTACTCAGTTTCTCTTCTCCTCGGGTGTGTTGGGCATCTTTGGCCTCACCTTCGCCTTCAT  
CATCGGACTGGACGGGAGCACAGGGCCACACGCTTCTTCTCTTTGGGATCCTCTTTCC  
ATCTGCTTCTCCTGCCTGCTGGCTCATGCTGTCACTGTGACCAAGCTCGTCCGGGGGAGGA  
AGCCCCCTTCCCTGTTGGTGATTCTGGGTCTGGCCGTGGGCTTCAGCCCTAGTCCAGGATGT  
TATCGCTATTGAATATTGCTCTGACCATTGAATAGGACCAACGTCATGTCTTTTCTGAGCT  
TTCGCTCCTCGTCGAATGAAGACTTTGTCCTCCTGCTCACCTACGTCCTCTTCTTGATGG

**>465**

NAGTGC GGAGCGCCGAGGCTCGCGTTCCGCCGCTGCTTCGTCGCCGGGGCGGG  
CGCCGCGGTGTCCCTGCCGAGCGTGAGCCCCGAAGTGTACCGCGCCGAGCCCCAGCCTC  
ATCCGTCGGTGTCCGCGGTCCGAGCTTTCGCCGCTCGCTGGCGGCCCGCGCTCTCCCC  
GCCGTGCGCGTTCGCCGCTGTGGCCTGTAGCTACCTCGCCTCGCTGCTTTGTCTCCGCTGC  
TCTTGCCGTCTTCCCCGCGCCTTCTCGGGCGGGGCTGTGGCTGTGCGTTTGCTGCTCC  
CGCAGCGCGGCCCTTGAGTCTCGCTCGCCCCGGTGGGAAACGTAGAAGTGTACTGCTCCAC  
CTTAGCGGTTGGGGTTTGAATGAGAGCGGTGCCTCGGTAGGTGCTCAGAAAGTTACAGTCG  
CCCATCTGAGCGTTTGTAAGGGACGCGGGCGCCAGGACC GGCCGAACGCGAGGTTGATTCT  
TTCAGTACACTGAAACCATTAGGAAAAATCCTTGTTGGTTAACAGCAGAGGCTTCAGAGTGTA  
ACCTGTACTCGGGCCTAGAAATTATTTAAATGGCCAGCTGATACGTCTCAAGGTGAAGTTCGT  
CCATCCTAAGGCACCTCCCACTTATAGTAGGAGCTCAGCTGATCCACGCGGACAAGTTAGGT  
GAGAAGGTAGAGATAGCACCATTGCCGATTGTCGAAGTGTGAATTCTACCCGGGAAACTC

Table 4

CTCCCCAAAGCAAGCTTGCTGAAGGGGAGGAAGAAAAGCCAGAACCAGACATAAGTTTCAGA  
GGAATCTGTCTCCACTGTAGAAGAACAAGAGAATGAACTCCACCTGCTACTTCGAGTGAGG  
CAGAGCAGCCAAAGGGGGAACCTGAGAATGAAGAGAAGGAAGAAAATAAGTCTTCTGAGGA  
AACCAAAAAGGATGAGAAAGATCAGTCTAAAGAAAAGGAGAAGAAAGTGAAAAAACAATTC  
CTTCTGGGCTACCTTTCTGCCAGCCAGCTAGCCAGGGCCCAGAAACAAACACCGATGGC  
TTCTTCCCCACGTCCCAAGATGGATGCAATCTTAAGTGGCCATTAAAGGCATGCTTCCAGA  
AGAGTGGTGCATCAGTGGTTGCTATTCGAAAATACATCATCCATAAGTATCCTTCTCTGGAG  
CTGGAGAGAAGGGGTATCTCCTTAAACAAGCACTGAAAAGAGAATTAATAGAGGAGTCAT  
CAAACAGGTTAAAGGAAAAGGTGCTTCTGGAAGTTTTGTTGTGGTTCAGAAATCAAGAAAAA  
CACCTCAGAAATCCAGAAACAGAAAGAATAGGAGCTCTGCAGTGGATCCAGAACCACAAGTA  
AAATTGGAGGATGTCCTCCCACTGGCCTTTACTCGCCTTTGTGAACCTAAAGAAGCTTCCTA  
CAGTCTCATCAGGAAATATGTGTCTCAGTATTATCCTAAGCTTAGAGTGGACATCAGGCCTC  
AGCTGTTGAAGAAGCCTCTGCAGAGAGCAGTAGAGAGGGGCCAGTTAGAACAGATAACTGG  
CAAAGGTGCTTCGGGGACATTCCAGCTGAAGAAATCAGGGGAGAAACCCCTGCTTGGTGGGA  
AGCCTGATGGAATATGCAATCTTGTCTGCCATTGCTGCCATGAATGAGCCGAAGACCTGCTC  
TACCACTGCTCTGAAGAAGTATGTCTAGAGAATCACCCAGGAACCAATTCTAACTATCAAAT  
GCATTTGCTGAAAAAAACCCTGCAGAAATGCGAAAAGAATGGGTGGATGGAACAGATCTCTG  
GGAAAGGGTTCAGTGGCACCTTCCAGCTCTGTTTTCCCTATTATCCAGCCCAGGAGTTCTG  
TTCCGAAGAAAGAGCCAGATGATTCTAGAGATGAGGATGAAGATGAAGATGAGTCATCAGA  
AGAAGACTCTGAGGATGAAGAGCCGCCACCTAAGAGAAGGTTGCAGAAGAAAACCCAGCC  
AAGTCCCCAGGGAAGGCCGCATCTGTGAAGCAGAGAGGGTCCAAACCTGCACCTAAAGTCT  
CAGCTGCCAGCGGGGGAAGCTAGGCCCTTGCCTAAGAAAGCACCTCCTAAGGCCAAAAC  
GCCTGCCAAGAAGACCAGACCCTCATCCACAGTCATCAAGAAACCTAGTGGTGGCTCCTCA  
AAGAAGCTGCAACCAGTGAAGAAAGGAAGTAAAATTGCCGGGCAAGGGCAAATCCACCA  
TGAAGAAGTCTTTAGAGTGAAGAAAGTAAATTTTATAGGAAAAAGGGTATCATGATGAAATT  
CAAAATCTTATTTCTAAGCACTTTTGATATCAAGCAAGTGGCTTCCTTTTTGAGATATTA  
C  
CNNACN

&gt;466

&gt;467

&gt;468

&gt;469

&gt;470

NCTGGGCTCAAAGCAGCCACTCATTATACCATCACCATCCGCGGGGTCCTCAGGA  
CTTCAGCACAAACCCTCTCTCTGTTGAAGTCTTGACATGAGGATCTCCACAGCTGGGAGAT  
TTAGCCGTGTCTGAGGTTGGCTGGGATGGCCTCAGACTCAACTGGACCGCAGCTGACAATG  
CCTATGAGCACTTTGTCAATCAGGTGCAGGAGGTCAACAAAGTGGAGGCAGCCCAGAACCT  
CACGTTGCCTGGCAGCCTCAGGGCTGTGGACATCCCGGGCCTCGAGGCTGCCACGCCTTA  
TAGAGTCTCCATCTATGGGGTGATCCGGGGCTATAGAACCAGTACTCTCTGCTGAGGCC  
TCCACAGCCAAAGAACCTGAAATTGGAATTTAAATGTTTCTGACATAACTCCCGAGAGCTTC  
AATCTCTCCTGGATGGCTACCGATGGGATCTTCGAGACCTTTACCATTGAAATTATTGATTCC  
AATAGGTTGCTGGAGACTGTGGAATATAATATCTCTGGTGTGAACGAAGTGCCTATATCTC  
AGGGCTACCCCTAGTACTGATTTTATTGTCTACCTCTCTGGACTTGCTCCCAGCATCCGGA  
CCAAAACCATCAGTGCCACAGCCACGACAGAAGCCGAACCGGAAGTTGACAACCTTCTGGT  
TTCAGATGCCACCCAGACGGTTTCCGTCTGTCTGGACAGCTGATGAAGGGGTCTTCGAC  
AATTTTGTCTCAAATCAGAGATACCAAAAGCAGTCTGAGCCACTGGAAATAACCCTACTT  
GCCCCGAACGTACCAGGGACTTAACAGGTCTCAGAGAGGCTACTGAATACGAAATTGAAC  
TCTATGGAATAAGCAAAGGAAGGCGATCCAGACAGTCAAGTCTATAGCAACAACAGCCAT  
GGGCTCCCCAAAGGAAGTCATTTTCTCAGACATCACTGAAAATTCGGCTACTGTCAGCTGGA  
GGGCACCCACAGCCCAAGTGGAGAGCTTCCGGATTACCTATGTGCCATTACAGGAGGTAC  
ACCCTCCATGGTAAGTGTGGACGGAACCAAGACTCAGACCAGGCTGGTGAAACTCATACCT  
GGCGTGGAGTACCTTGTGAGCATCATCGCCATGAAGGGCTTGAGGAAAGTGAACCTGTCTN  
C

&gt;471

NNNATATCTATGTCTGGTGAGGGACTGCTTACTGGCTTATAGATGGTGCCTTCTCAC  
TGTGTCCTCACATGGTGTAGAAAGTGAAGCAAGTTACCTTGGACCTATTTTATAAGGGAAC  
TCCCATTTGTGAGGCTTTTCCCTGAAGTTTGTGCAACTCCTGAAAGGCCCATCTTCTAAT  
ATCATCACCTGGGGCGTTAGGATTTCAACATATGAATTTGGGAAGACACAAAGATTACAGAC

Table 4

CACAGCCTACAGGGAGAGAGGATTTCTGAGGATGGTGGTGCAGTGTGAGTCCACGCAGGC  
CTCCTGGGCATAGGATGGAGCAATTCTATCTACCTCAGGCCTAGCACAAAGGGCTTCAGTA  
AACCCTGGAGTTTCTTCATTAGGATTCATCCCAGGATATCCAGAGGACAAGAGGCTGGC  
CAACTGCAGGATTAGCCTATGCTCCCGTGCTGGATATAGGCTACACGCAAGAGAAAGCTTG  
GGTGGGATCTCCTGATCCCGCT

&gt;472

&gt;473

ACCGCGGTGGCGGACGAGGTACAAAATAATTATAATGTATTAACCTCATACTGCCTGT  
CTTTTATAGGGGAAAAAATAACCTTTTTTATTTTAAAGTTATAAGGTGGGTACCTTTTAGTT  
GCTTGGATGACAGGGAATTAGCCTACCCCATTTTGGTCTGGAACAGAAAGACTTTCAAATTTA  
ATATGGCCCAAGTGTCTTCTACTTAAGTGCAAGATCATGCTATGTCAGTTACCCAAGCTGG  
AATACCGTGACACGATCGTGGCTCGCTACAGCCTCCATGTCCAGGCTCGAGCAGTTCTCC  
CACCTCAACCTTCCGAGTAGCCGGAACACAGAACACAGTCTTCTCATTTTGAAGACAT  
GCTTTTCTTAAAGCAACAAAGGTGGTAGAGGAAATTTCTTAACTTTCTCAACGAN

&gt;474

&gt;475

AGGTACATGGGACTACGTCCTTTAACTACCCAGGAGCAAAGTTGGACTTCCATGAA  
AAAGTTTGTGCAGATCTAAAACCTCTCATCTATTTCACTAAAAGGACTTCCCCTTCTAACTG  
TCACCCTTACCAATGTAACCCTGTCCTCTCTATCACCACCTCCACCTGTCTTTAACTAACTCT  
AGACCTGTCTTAATTGCTTTTATGGTATTGGAATAGGAATTAAGAAATTAAGAATGTGTA  
AGGAGAACTCAGTTGTATGTAAGAAAACCCAATTCCTCCCTGAGAAAGAGAAAGAGTTGGAG  
TCCTTTAAAAATTAAGTGCCTGTTTTCTGTGGCTAGTGAGCCTTATCTCTCCTCCTTTCCCA  
GACATTGTGAAGACCTGTCTCTAGCTGTGCAGCTGCAAGGTCACTAGACAGATAAACTC  
AAGTTGTAACATGTTTTCTTGAAGAAAGTAAGAAATGCTGTAATGCATTTCTCAATTAATTA  
AATAACTGTCTTTGTTTCTCGCTTCTGTAATATGCTTCCCCCTGCACAGATCTCCACCCACCC  
TACAAAATGCTTAAAGGTAACCTTAACTCTTTGTTCTGGGCTCAAGTCTGTCCGGTCAGCAG  
CCGCCGCGGCGACGTCCACGCGTCNN

&gt;476

CGACCCCGCGTCCGAGATAGCCTTTTGGAGTGAAGATGAGGAAAAGCCTGTATTT  
TATAGTCTTGGAAGTGTCTTCTTTTCCAGGACAGAGAGAGGAGCTTCAGCAGTGAGAGCAA  
CTGAAGGGGTTAATAGTGGAACTTGGCTGGGTGTCTGTTAACTTTTTTCCCTGGCTCTGCC  
CTGGGTTTCCCTTGAAGGGATTTCCCTCCGCCTCTGCAACAAGACCTTTATAAAGCAGAG  
ACTGGTACGCCTCCGCGGTATCTGCATCGGGCCTCACTGGCTTCAGGAGCTGAATACCCTC  
CCAGGCACACACAGGTGGGACACAAATAAGGGTTTTTGAACCACTATTTTCTCATCAGACA  
GCAACTTAAATGCCTGGGAAGATGGTCGTGATCCTTGGAGCCTCAAATATACTTTGGATAA  
TGTTTGCAGCTTCTCAAGCTTTTAAATCGAGACCACCCAGAATCTAGATATCTTGCTCAGA  
TTGGTGACTCCGTCTCATTGACTTGCAGCACACAGGCTGTGAGTCCCCATTTTCTCTTGG  
AGAACCCAGATAGATAGTCCACTGAATGGGAAGGTGACGAATGAGGGGACCACATCTACGC  
TGACAATGAATCCTGTTAGTTTTGGGAACGAACACTCTTACCTGTGCACAGCAACTTGTGAAT  
CTAGGAAATTGGAAAAAGGAATCCAGGTGGAGATCTACTCTTTTCTAAGGATCCAGAGATT  
CATTTGAGTGGCCCTCTGGAGGCTGGGAAGCCGATCACAGTCAAGTGTTGAGTTGCTGATG  
TATACCCATTTGACAGGCTGGAGATAGACTTACTGAAAGGAGATCATCTCATGAAGAGTCAG  
GAATTTCTGGAGGATGCAGACAGGAAGTCCCTGGAAACCAAGAGTTTGGAAAGTAACCTTTAC  
TCCTGTCAATTGAGGATATTGGAAAAGTTCTTGTGTTGCCGAGCTAAATTACACATTGATGAAT  
GGATTCTGTGCCACAGTAAGGCAGGCTGTAAAAGAAATTGCAAGTCTACATATCACCCAAGA  
ATACAGTTATTTCTGTGAATCCATCCACAAAGCTGCAAGAAGGTGGCTCTGTGACCATGACC  
TGTTCCAGCGAGGGTCTACCAGCTCCAGAGATTTTCTGGAGTAAGAAATTAGATAATGGGAA  
TCTACAGCACCTTTCTGGAAATGCAACTCTCACCTTAATTGCTATGAGGATGGAAGATTCTGG  
AATTTATGTGTGTAAGGAGTTAATTTGATTGGGAAAAACAGAAAAGAGGTGGAATTAATTGT  
TCAAGAGAAACCATTTACTGTTGAGATCTCCCTGGACCCCGGATTGCTGCTCAGATTGGAG  
ACTCAGTCATGTTGACATGTAGTGTGATGGGCTGTGAATCCCCATCTTTCTCCTGGAGAACC  
CAGATAGACAGCCCTCTGAGCGGGAAGGTGAGGAGTGAGGGGACCAATTCACGCTGACC  
CTGAGCCCTGTGAGTTTTGAGAACGAACACTCTTATCTGTGCACAGTGACTTGTGGACATAA  
GAAACTGGAAAAGGAATCCAGGTGGAGCTCTACTCATTCCCTAGAGATCCAGAAATCGAG  
ATGAGTGGTGGCCTCGTGAATGGGAGCTCTGTCACTGTAAGCTGCAAGGTTCTAGCGTGT  
ACCCCTTGACCGGCTGGAGATTGAATTACTTAAGGGGAGACTATTCTGGAGAATATAGAG

Table 4

TTTTTGGAGGATACGGATATGAAATCTCTAGAGAACAAAAGTTTGAAATGACCTTCATCCCT  
ACCATTTGAAGATACTGGAAAAGCTCTTGTGTCAGGCTAAGTTACATATTGATGACATGGAA  
TTCGAACCCCAAACAAAGGCAGAGTACGCAACACTTTATGTCAATGTTGCCCCAGAGATAC  
AACCGTCTTGGTCAGCCCTTCTCCATCCTGGAGGAAGGCAGTTCTGTGAATATGACATGCT  
TGAGCCAGGGCTTTCTGCTCCGAAAATCCTGTGGAGCAGGCAGCTCCCTAACGGGGAGCT  
ACAGCCTCTTTCTGAGAATGCAACTCTCACCTTAATTTCTACAAAATGGAAGATTCTGGGGT  
TTATTTATGTGAAGGAATTAACCAAGGCTGGAAGAAGCAGAAAGGAAGTGGAATTAATTATCC  
AAGTTACTCCAAAAGACATAAAACTTACAGCTTTTCTTCTGAGAGTGTCAAAGAAGGAGACA  
CTGTCATCATCTCTTGTACATGTGGAAATGTTCCAGAAACATGGATAATCCTGAAGAAAAAG  
CGGAGACAGGAGACACAGTACTAAAATCTATAGATGGCGCCTATACCATCCGAAAGGCCCA  
GTTGAAGGATGCGGGAGTATATGAATGTGAATCTAAAAACAAAGTTGGCTCACAAATTAAGAA  
GTTTAACACTTGATGTTCAAGGAAGAGAAAACAACAAAGACTATTTTTCTCCTGAGCTTCTCG  
TGCTCTATTTTGCATCCTCCTTAATAATACCTGCCATTGGAATGATAATTTACTTTTGAAGAAA  
AGCCAACATGAAGGGGTCTATAGTCTTGTAGAAGCACAGAAATCAAAGTGTAGCTAATGC  
TTGATATGTTCAACTGGAGACACTATTTATCTGTGCAAATCCTTGATACTGCTCATCATTCTT  
GAGAAAAACAATGAGCTGAGAGGCAGACTTCCCTGAATGTATTGAAGTTGGAAGAAATGCC  
CATCTATGTCCCTTGTGTGAGCAAGAAGTCAAAGTAAAAGTGTGCTGCCTGAAGAACAGTAA  
CTGCCATCAAGATGAGAGAAGTGGAGGAGTTCTTGTATCTGTATATACAATAACATAATTTGT  
ACATATGTAAATAAAATTTATGCCATAGCAAGATTGCTTAAATAGCAACACTCTATATTTAGA  
TTGTTAAATAACTAGTGTGCTTGGACTATTATAATTTAATGCATGTTAGGAAAATTTACAT  
TAATATTTGCTGACAGCTGACCTTTTGTCTCTTCTTCTATTTTATCCCTTTCACAAAATTTTA  
TTCCTATATAGTTTATTGACAATAATTTGAGGTTTGTAAAGATGCCGGGTTTTATTTTTATA  
GACAAATAATAAGCAAAGGAGCACTGGGTTGACTTTTCAAGTACTAAATACCTCAACCTATG  
GTATAATGTTGACTGGGTTTCTCTGTATAGTACTGGCATGGTACGGAGATGTTTCACGAAG  
TTTGTTCATCAGACTCCTGTGCAACTTCCCAATGTGGCCTAAAAATGCAACTTCTTTTTATT  
TCTTTTGTAAATGTTTAGGTTTTTTTGTATAGTAAAGTGATAATTTCTGGAATTAAAAAAAAAA  
AAAAAAAAAAAAAACCCTACAGGAGAAAAACCCCAAAAAATAAGACAAAACAACAGAGGAAG  
CCGAAAGTGACACGCAACACACAACAGCCATATGACAAAGAACGACTCCCACTCAGAGGA  
CAACCATAAATAACACCACAGCCAGCCACATCAGATAAAGCAGCCAGATAACGAACAACCC  
ATCAACATGACAATGCGACCAACGACCACCATGCGGGAGAAACAGCAGCACCCTTACAG  
AGAATTGCAACCAGCAACAACAAGCCACCGACACGACGAACACACACAAATGACAAGA  
AAGCCCAGACCTCGAAACNN

&gt;477

NNGACTGACTTGATAGCTGGAAGAAATCATCGGATTTTTATTCTTTTATTAAGAAAA  
AAATTTGAAATGCCTTCCATGTGCCAAGCACTGTGTGAGGTGGGAGATGACAGCTTGGTGAA  
ACCTCTGTGAGGCTGTCTTCTCCTCCGCTTTCTCTATCCCTGGGTTTCCCCCTGCCTAAAAAGG  
ATTTTGTGCTTCGTGGCTTGTCCAGGCAAGCAGGCCGTGCGGGGACCTAGACCGAGACAGT  
GAGTCTCTCTTCTCCCGGGCCTCCCTTCTGTTTCTGTTTCTGGGCTGCAGGGGAGCAGAAATCT  
GGGGCGAGATTCCCGCCGCGGACGCGCACTGCCGAAGCCTGGTCCCTCGACCTGTCCCTG  
CCCAGCGCGGGGGCGCAACCGCCACGCCTCCTCACCCCTCCCTCCGGCTGCACGAATAAT  
GACAACAGCCGCCCTCCACCTTTGGCGTCACTTCAAACAATCCTTTGACTACAACCTCC  
CAGAAGGCCGAGCGGCTTAGCGAGTGCACCCGCTCTCGGCTGCTCCGGCAAACCTACACAT  
CCCAAAGGGCAGCGCCGACCGCTGTCTTTACAGCAAAGTGCGGAAGTGCCTTTGTTT  
CGGCGTGGGTCCGGGCAAGAACCCTTGTAGTTTGGTTTAAATTCTGCACGGGAGGACCTT  
CTGAGTTTACCTGTTGGGCTCCTGGCTGCGCAGGCACAGCAGCTACACAGAAGAGATGGGA  
GAAGAGGCTAATGATGACAAGAAGCCAACCACTAAATTTGAACTAGAGCGAGAAACAGAAGT  
TCGCTTTGAGGTGGAGGCATCTCAGTCAGTTTCAAGTTGGAGTTGTTGACTGGCATGGCAGAG  
ATCTTTGGCACAGAGCTGACCCGAAACAAGAAATTCACCTTTGATGCTGGTGCCAAGGTGGC  
TGTTTTCACTTGGCATGGCTGTTCTGTGCAACTGAGCGGCCGCACTGAGGTGGCTTATGTCT  
CCAAGGACACTCCTATGTTGCTTTACCTCAACACTCACACAGCCTTGAACAGATGCGGAGG  
CAAGCGGAAAAGGAAGAAGAGCGAGGTCCCCGAGTGATGGTAGTGGGCCCACTGATGTG  
GGCAAGTCTACAGTGTGTCGCTTCTGCTCAACTACGCAAGTGCCTTTGGGCCCGCGTCCCA  
CTTATGTGGAGCTGGATGTGGGCCAGGGTTCTGTGCCATCCCTGGTACCATGGGGGCCCT  
CTACATCGAGCGGCTGCAGATGTGCAAGAGGTTTCTCTATCCAGGCCCTCTGGTGTAT  
CATTTTGGTTCCCACTCCTGGCACTAACATCAAGCTTTATAATAAGATTACATCTCGTTTA  
GCAGATGTGTTCAACCAAGGTGTGAGGTGAACCAAGGGCATCTGTGAGTGGCTGTGTCA



Table 4

TTAACACCTGTGGCTGGGTCAAGGGCTCTGGTTACCAGGCTCTGGTGCATGCAGCCTCAGC  
TTTTGAGGTGGATGTCGTTGTTGTTCTGGATCAAGAACGACTGTACAATGAACTGAAACGGG  
ACCTCCCCACTTTGTACGCACTGTGCTGCTCCCTAAATCTGGGGGTGTGGTGAGCGCTC  
CAAGGACTTCCGGCCGGAATGTAGGGATGAGCGTATCCGTGAGTATTTTATGGATTCCGA  
GGCTGTTTCTATCCCCATGCCTTCAATGTCAAATTTTCAGATGTGAAAATCTACAAAGTTGGG  
GCACCCACCATCCCAGACTCCTGTTTACCTTTGGGCATGTCTCAAGAGGATAATCAGCTCAA  
GCTAGTACCTGTCACTCCTGGGCGAGATATGGTGCACCACCTACTGAGTGTTAGCACTGCC  
GAGGGTACAGAGGAGAACCTGTCCGAGACAAGTGTAGCTGGCTTCATTGTGGTGACCAGTG  
TGGACCTGGAGCATCAGGTGTTTACTGTTCTGTCTCCAGCCCCCTCGCCCACTGCCTAAGAAC  
TTCTTCTCATCATGGATATCCGGTTCATGGATCTGAAGTAGAGATCAGCAGGAAGCCTTGC  
TGCCTGGGACATAGAGATCATCTGGCCACCCCTAGAGGCAGATGGGCTGAGATAAAAGACT  
GTTGGGGCCACCTGACCAGTAACTGTGGACTAGTAGAAAGTTCATATTCTACCTCTAAAAA  
CAGGTAGTGGTAACCTGACTCTTCTAATCTTGAACCAAAAGGAAAACCATGAGACTGTAATT  
GGTTTCTTAGACCACCTAAGATGCCACTTTGAATTCCTCTAAGACCCTGGAGAATTGCATTCT  
TTCACTGTGCTACTATGTGGTTTTTAAAAAATCAATGCTTTATATTCCATATGTGGTTCTTACC  
CATTTATCTAGGATGAAAGTGTGAATTAGAGGGACTCCTTCCAATAAAGTTCAAACCTAAAAA  
AAATCATTTTAAATAATATTTTGGCCATATCAAAAAAAAAAAAAAAAAAGGGCGCCGCTCGCGATC  
GGACGCGTGGGTGACNN

&gt;478

&gt;479

NNNNGGCGTTGTAACTAATGTGGGCCCTGGAAAACTTTTTCCCCGGAAGGTTT  
GAAAAGAGGGCCACTTTTTTTTTTTTTTTTTTTTGGAGACAGTCTCACTCTATTGCTGAGGCTG  
GAGTGCAGTGGCGCGATCTTGGCTCACTGCAACCTCTGCCGCTGGGTTAAGCGATTCTC  
CTGCTCAACCTCCGAGTAGCTGGGATTACAGGCGCATGCCATCAAGCCCAGCTAATTTTT  
TGTTATCTTTACTAGAGACGGGGTTTACCATCTTGGCTAGGCTGGTCTTGAACCTCCTGACC  
TCATGATCCACCCACATTGGCCTCCCAAAGTGCTGGGATTACAGGTGTGAGCCACCGCGCC  
CGGCCAGCATAGTATTTTTATTTATAACGTGAAAAAATGAAAACAGATACTTCACTACAAATA  
TTGAACCCAAGTTAGAAAATTTTTATGCAGCCAAACCATGACTTTAAGCTCTATTTACACTGAT  
GGCGGCCAACTGAGATGCAGACCACCCATGTGGCGTGCAGCAAGCAGGACATGCAGGG  
AGCCTTCTTGCTCACAAGGCTTCAGAGCAAGCGCACGGTCTTCCCAGTCACTGTCAGGAA  
ATCATCATCTGCCAGGGCACGCAGTGCTTCTTCAAACATATCTTTAGTAATTGCTATGTCAGA  
TTGTCCCCGAATATCTTCAAAAAGTTGCTGGTATTTTAGAGCTGGTGTTTTGCCTTAGATAA  
AATAAGCTTTTTCAATGCTTCAGCTAATCTTCTTCCGTTTACGAGAGGTGGCACTCATCCC  
CGTAGTAAGAATAGATATGTCCACGATGCCAGTCCGGGGATCAGTTGCAGACTGCTTCAGA  
GCTTCCCGATGGAGGCGTTTGGCCTCTTCCACATCAATGGCTTCACTTTGTTAGACAATCT  
TACTTTAGCATGGGCTTCTGCTAAGCGGATTAATGACTCTAGCTGTCGAGGGTATGCAGAAA  
CCATTCCCCGCTACTGCCAATCTTCTCATGTCTACATAAGCCTATTGTAGGTAGAAAAACAA  
AAGCAAAAGCAAACCTCCTTGGTGACAACCTTAGTTTTGTGGGTGAATTTTGAACACTTAGGC  
TTCCATTAAAGTAAACGGAACCTCAGATATGGTCCTGGGCCCCGGAGCTCATCAAGTGGTAN

&gt;480

GTCAGATCCGAGGACATGTTGACGTCGTCGAGAGTCTTAAATCCTGCTCTGGCC  
GGATTCCAGACTCGTGGGGGAAAGGCTGGATTTCAACAGATCACATGGATCAAGGCCTTAG  
GGAGGTGGTTGGGGATTACGTATGCCCTGGACCATCTGGAGCCCAAGTTGCTGCAGATCC  
TGTCACCACGAGTGGACACCCTCTGGCCACCATAGCAAAGAAGTCTGCAGGCAGGAGTTTC  
CAAGGCAGGAAAGGTAAAGAGACAAAGAAAGTGCCCGGGCAGGTACAGATGCAAACGGAG  
GTGTAGACTGTGCAGCTGCCAAAGTGGTGACAAGCAATCCAGAGGACCATGAAAGGATCTT  
AATGCAAGTCATGAACCTGAATGTGCCGATGAGGCCTGGCATTCTTGTCCAGAGACAGAGTA  
AGGAAGTGTTGGCCACACCCTTAGAAAAACAGAGGGACATGGAGGCAGAAGAGGAGAACCA  
AATAAATGAGAAGCAAGAGCCTGAGAATGCTGGAGAACTGGTCAAGAAGAGGATGATGGT  
TTGCAGAAAATACACATCTGTCACTAGAACTCCTTCAGTTGTTGAAAGCCAAAAAAGACCT  
TTAAAGGAGTGACATTTTCTAGGGAGGTAATTGTTGTGGATCTTGGGAATGAATACCCTACA  
CCTCGAAGCTATACTCGAGAACATAAAGAGAGGAAATGAAGCTCAAAAAGGGTAAGAGTGA  
AAGAAAATGTAACGTTTGACTAACGTTGAAAGACTGAGGGTACAAAATCATGTTGAAACAACA  
AAACAATGGGGAATTAAGCAAATAAAGATATTATTTTACCTTTGTGCAGAAAGGAGTGAGCCA  
TGTGCAAAATTCTGTAAGTAAATACTTAGAGCTTGAATATAATTTTTTAAAAATTCAAATCTG

Table 4

AGTTCAAGAAATTGATTGTATTGCCCTTAAACTATCTACTCAAACACTGTTCTGGCATGTGA  
ATAAAGTGATTTTTGTTGTACCCGCCCGGGCGGCCGCTNNN  
>481  
>482  
NNNNNNNNNNNNNNNAACTCCTAGCGGACACCTCGTGGAGTCCGGCCGGAAGAGC  
AACCGAGATGAAGGTGAAGATGCTGAGCCGGAATCCGGACAATTATGTCCGCGAAACCAAG  
TTGGACTTACAGAGAGGTTGGTGATGACAAAACCTGTGAAGCAGTGGAAAATGGATGGGCCA  
GGCTATGGAGACGAGGAAGAGCCATTACATACAATATTAGGAAAGACAGTGTATACTGGGAT  
TGATCATCACTGGAAAGAAGCTGTTTTGCCACATGTGGACAGCAAGTAGACATTTGGGATG  
AACAAAGAATAATCCTATATGTTCAATGACCTGGGGATTTGACAGTATAAGTAGTGTTAAAT  
TTAACCCAATTGAGACATTTCTCTTGGGAAGTTGTGCATCTGACAGGAATATAGTACTGTACG  
ATATGAGGCAAGCTACTCCTTTGAAAAAGGTTATCTTAGATATGAGAACAAATACAATCTGTT  
GGAACCCTATGGAAGCTTTCATTTTTACAGCAGCAAATGAAGATAATAACTTATATACTTTTGA  
TATGCGTGCACCTGGACACTCCTGTAATGGTCCCATATGGATCATGTATCTGCAGTGCCTTGATG  
TGGATTACTCTCCCACTGGGAAGGAGTTTGTGTCTGCTAGTTTCGGTAAATCTATTGAACTCT  
TTCTGTAGACAAAAGTGAAGCAGGGAGGTATATCATAAAAGAGAATGCAACATGTTATC  
TGTGTAATAATGGACTTCTGACAGCAAGTATATTATGTGGCACTGAGAGATCCCTCATAATTT  
CCCCAAAGCGTAACCATGTGTGAATAAATTTGAGCTAGTAGGGTTGCAGCCACGAGTAAGT  
CTTCCCTTGTTATTGTGTAGCCAGAATGCCGCAAACTCCATGCCTAAGCGAAGTGTGAG  
AGTACGTTTCGATTCTGACTGTGTTAGCCTGGAAGTGCTTGTCCCAACCTTGTTTCTGAGCA  
TGAACGCCCGCAAGCCAACATGTTAGTTGAAGCATCAGGGCGATTAGCAGCATGATATCAA  
ACGCTCTGAGCTGCTCGTTCCGGCTATGGCGTAGGCCTAGTCCGTAGGCAGGACTTTTCAAG  
TCTCGGAAGGTTTCTTCAATCTGCATTGCTTGAATAGATATTAACAAGTTGTTTGGGTGTT  
CGAATTTCAACAGGTAAGTTAGTTGCTAGAACCCTATGGCTCCTTTGCCGACGCTGAGTAGAT  
TTTAGGTGACGGGTGGTGACAATGAGTCCGTGTGAGCGCTGATTTTTTCCGGCCTTTAGAGC  
GAGATTTATACAATAGAATTTGGCATGAGATTGGATTGCTTTTAGTCAGCCTCTTATAGCCTA  
AAGTCTTTGAGTGACTAGATGACATATCATGTAAGTTGCTGATAGGTTTCCAGTTTTCCGCTC  
CTAGGTCTGCATATTGTACTTTTCTCTTACTCGACTTAACCAAGTACCAACCCAGCTTCTCAA  
CGGATTTATACCATGGCACTTTAAAGCCAGCATCTGACAAATGAGCGGTGTGGTGTTACTC  
GGTAGAATGCTCGCAAGGTCCGGCTAGAAATTTGGTCATGAGCTTTCTTTGAACATTGCTCTGA  
AAGCGGGAACGCTTTCTCATAAAGAGTAACAGAACGACCGTGTAGTGCGACTGAAGCTCGC  
AATACCATAAGTCGTTTTTGTCTACGAATATCAGACCAGTCAACAAGTACAATGGGCATCGTA  
TTGCCCGAACAGATAAAGCTAGCATGCCAACGGTATACAGCGAGTCGCTCTTTGTGGAGGT  
GACGATTACCTAACAATCGGTGCTGATTGCTTTGATGTTATGTTTTGTTCTCGCTTTGTTGGCA  
GGTTACGGCCAAGTTCCGTAAGAGTGAGAGTTTTACAGTCAAGTAATGCGTGGCAAGCCAA  
CGTTAAGCTGTTGAGTCTGTTTTAAGTGAATTCGGGGCAGAATTGGTAAAGAGAGTCTGTGA  
AAATATCGAGTTCGCACATCTTGTGTCTGATTATTGATTTTTCGCGAAACCATTTGATCATAT  
GACAAGATGTGTATCTACCTTAACCTTAATGATTTTGATAAAAATCATTAGGGGATTTCATAGTA  
TTATGTGTGGATCTGATGAAATGAACATTGCTGCTGTGGAAAGCTAATGCTTCTGAAAAATTGG  
GTGTGCTTACATCACGAGAAAAAGCAGCCAAGGATTATAACCAGAAATTGAAGGAGAAATTT  
CAGCATTATCCTCATATAAAACGTATAGCTCGTCATCGACATCTACCAAAATCTATCTATAGC  
CAGATTACAGGAACAGCGCATCATGAAAGAAGCTCGTCGACGAAAGGAAGTGAATCGTATTAA  
ACACAGCAAGCCTGGATCTGTGCCACTTGTGTGAGAGAAGAAGAAACACGTAGTGGCAGTT  
GTAATAAATTGGTATTCTTAACAATCCTGATGTATAATTATTTGTTACTTTTGATTGAGAAT  
CTACAAATAAAGTGCTGGGACTAGATTAANNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN  
>483  
>484  
agcatctgatgcatcagcittgccaggagagtgatcaaggagggttaaagctcaggtaaagggtgccttctcagagattggc  
tacaagcaacagagaccacctcaacagagaccacctcaacagactcagcccagccatacaagggtgccaagctctccagaggg  
ctgtcttgggcttggagcaattgatctccagaagagtcagaagtcattccagtcaggcccaggtattcagatgggtgacccagccag  
ataatagtatcttgagcaataatagatcttgagtgcaataagcaaggagatgcccaagtttccgtgaacatgccacaaattgattg  
aggttgccaacttggcctgttccatctcaataatgaagaagggtgaagctgttcgaatgtctgcaagccagttagaAGCCCTCT  
GTCCTCAGGTTATTAATGCTGCACTGGCTTTAGCAGCAAAACCACAGAGTAAACTGGCCCAA  
GAGAACATGGATCTTTTAAAGAACAATGGGAAAAACAAGTCCGTGTTCTCACAGATGCTGT  
CGATGACATTACTTCCATTGATGACTTCTTGGCTGTCTCAGAGAATCACATTTTGGAAGATGT  
GAACAAATGTGTCATTGCTCTCAAGAGAAGGATGTGGATGGCCTGGACCGCACAGCTGGT

Table 4

GCAATTCGAGGCCGGGCGAGCCGGGTCATTACGTCAGTACCTCAGAGATGGACATCGAG  
CGgccGCCGGGCGAGGTACACAAGCTTTATTGGGCAACAGCAACGAGCCACGCTGGCAAAC  
AATGAAAGTAGAGTCGCTCAGAAAACAGAAAGATCATATGTGTGTCATCACAGCATCGAGAA  
TTTAAATCATCTGGAAGTTCCTGCTAAATTAAGCATACTGTGCCAGAGCTCCCCTCTAATCA  
AAAAACGCTGTCTGGTGAATTTGCAATGAGGATTACAGAGAGAGAGATCAACCAATGAG  
GAAATCACAGACTCTTACATGAGTTTACAGTTAACCCCACTGCAACAAAATAATAAATTAGCC  
ATAATTTGTTTTTTTGCAAATACCATGCCCCCCACCTGACCCCAACAAACACAGTCACTG  
ACATGGCCCAGCTATATTAACAGACTGCGCCTCAAACCATGCTGTGGCGGAGAAGACAGAT  
TCACGGGTAATGCCGCTTTGGCCTGAGAAGATGCTTCGGAGCTCCAGGTGGAGGAGCTGCT  
CACGCTGCAGGATGCTTGCAGGTTCAATCAAACCAAATTTTTTTTCCAAGAAGAACTGGACA  
TAATTCATGGGAATATTTTAAGTATATATAAGTGGCAAAAAAGCTGTACATTAAGAAGGGG  
GAGAAATAAATGTGTTGTATACAAAGAGCTTTGTATATTTTTTAAATGAAAAACAAAGCTG  
GGAGTGATAGAATTTAATGCAATGAAAACCAAATAATTCTTCAAAAACTTTAGATGACATCA  
TTCTctcgctctTTCACACACACACACACCCCCACACACTTCAAACATACagaaaagGTTAAAGATA  
aaaatAGCTGATAGGTGTttagtAGGATGGAGCagAagAATCGTACatgtccattgcaatttggcaaagggtt  
aaaatgtccctaaagcacgcacgcacgtccagcctaccacag

&gt;485

CGTCCGTGCCAAGTCGCTGTTTCTGGGACAAGAGGGAGCCTCACTGAAACGAACT  
CCGGTCTCAGGGGACAGAATCCTGAAACCCTGGCTCTGGGGTCCGGGGCAGGGGTGCGCT  
GCCTCAGGACAGACGGGAACTGAGGTCCAGAGCCGGACATCCACCGCCTGCGGAGGGA  
ACGAGAACCGCGCGCTCCTGCCTTGCAGGGCCGAGCGGCGCCAGAGCCGCTCCTCCCG  
CCCCCGCGCTAGATCCCCCGCCCCGCTTTGCCCTCGCGACGCCGCCACCTCCGGAAC  
AAGCCATGGTGGCGGCGACGGTGGCAGCGGCGTGGCTGCTCCTGTGGGCTGCGGCCTGC  
GCGCAGCAGGAGCAGGACTTCTACGACTTCAAGGCGGTCAACATCCGGGGCAAACCTGGTG  
TCGCTGGAGAAGTACCGCGGATCGGTGTCCCTGGTGGTGAATGTGGCCAGCGAGTGCGGC  
TTCACAGACCAGCACTACCGAGCCCTGCAGCAGCTGCAGCGAGACCTGGGCCCCACCAC  
TTCAACGTGCTCGCCTTCCCCTGCAACCAGTTTGGCCAACAGGAGCCTGACAGCAACAAGG  
AGATTGAGAGCTTTGCCCGCCGACCTACAGTGTCTCATTCCCCTATGTTAGCAAGATTGCA  
GTACCCGGTACTGGTGCCCATCCTGCCTTCAAGTACCTGGCCAGACTTCTGGGAAGGAGC  
CCACCTGGAACCTTCTGGAAGTACCTAGTAGCCCCAGATGGAAGGTGGTAGGGGCTTGGGA  
CCCAACTGTGTCACTGGAGGAGGTGAGCCCCAGATCACAGCGCTCGTGAGGAAGCTCATC  
CTACTGAAGCGAGAAGACTTATAACCACCGCGTCTCCTCCTCCACCACCTCATCCCGCCAC  
CTGTGTGGGGCTGACCAATGCAAACTCAAATGGTGTCTCAAAGGGAGAGACCCACTGACTC  
TCCTTCTTTACTCTTATGCCATTGGTCCCATCACTTCTGTGGGGGAAAAATTCTAGTATTTTG  
ATTATTTGAATCTTACAGCAACAAATAGGAACTCCTGGCCAATGAGAGCTCTTGACCAGTGAA  
TCACCAGCCGATACGAACGTCTTGCCAACAAAAATGTGTGGCAAATAGAAGTATATCAAGCA  
ATAATCTCCACCCCAAGGCTTCTGTAACTGGGACCAATGATTACCTCATAGGGCTGTTGTG  
AGGATTAGGATGAAATACCTGTGAAAGTGCCTAGGCAGTGCCAGCCAAATAGGAGGCATTC  
AATGAACATTTTTTGCATATAAAACAAAAAATCTTGTATCAATAAAAACTTGCATCCAACA  
TGAATTTCCAGCCGATGATAATCCAGGCCAAAGGTTTAGTTGTTGTTATTTCTCTGTATTATT  
TTCTTCATTACAAAAGAAATGCAAGTTCATTGTAACAATCCAAACAATACCTCACGATATAAAA  
TAAAAATGAAAGTATCCTCAAAAAAAAAAAAAAAAAAAAAAAAAANNNNNN

&gt;486

tGGCGgccgcCCGGGCGAGGTACGCGGGAGTGTGgattgAACAGAAAATTGGAAATCATa  
gtcAAAGGGCTTCCCTTGGTTCGCCACTCATTTATTTGTAACCTTGActggggtgtTTCTGCTTAAAA  
ATTTCAAttTCGTGGTAACAACGCAGAGTAGAAGGAGAGGGTGACTTTACCGAACTGACAGC  
CATTGGGGAGGCAGATGCGGGTGTGGAGGTGTGGGCTGAAGGTAGTGACTGTTTGATTTTA  
AAAAGTGTGACTGTCACTGTATCTGTTGCTTTTCTCAATGATTGAGGGATACAAATGGGCTT  
CTCTCATTTCATTAAAAAGAAAACGCGACATCTTTCTAAGATTCTCTGTGGGAAAATGACTGTCA  
ATAAAATGCGGGTTTCTGGGCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA  
AAAAAA

&gt;487

cgACCCACGCGTCCGGGGGGAGCGGCGCGGAAGCCGGGCCACATAAAGGAGCGG  
GCGGCGCGACAGGGCGGCTCTTTCTGGGTGGGGTTTGTGAAGTCGTGGCCCGTTAGCA  
GGAAGCCTAACAGTCGCCCCGAGCTAGTGAGGGACCAATCTGAGTCCCCGGCCAGCCG  
AATCCAAGCCGTGTGTACTGCGTGCTCAGCACTGCCGACAGTCCTAGCTAACTTCGCCA

Table 4

ACTCCGCTGCCTTTGCCGCCACCATGCCCAAACGATCAGTGTGCGTGTGACCACCATGGA  
TGCAGAGCTGGAGTTTGGCATCCAGCCCAACACCACGGGAAGCAGCTATTTGACCAGGTG  
GTGAAAACCTATTGGCTTGAGGGAAGTTTGGTTCTTTGGTCTGCAGTACCAGGACACTAAAGG  
TTTCTCCACCTGGCTGAAACTCAATAAGAAGGTGACTGCCCAGGATGTGCGGAAGGAAAGC  
CCCCTGCTCTTTAAGTTCCGTGCCAAGTTCTACCCTGAGGATGTGTCCGAGGAATTGATTCA  
GGACATCACTCAGCGCCTGTTCTTTCTGCAAGTGAAAGAGGGCATTCTCAATGATGATATTT  
ACTGCCCGCCTGAGACCGCTGTGCTGCTGGCCTCGTATGCTGTCCAGTCTAAGTATGGCGA  
CTTCAATAAGGAAGTGCATAAGTCTGGCTACCTGGCCGGAGACAAGTTGCTCCCGCAGAGA  
GTCCTGGAACAGCACAACTCAACAAGGACCAGTGGGAGGAGCGGATCCAGGTGTGGCAT  
GAGGAACACCGTGGCATGCTCAGGGAGGATGCTGTCTGGAATATCTGAAGATTGCTCAAG  
ATCTGGAGATGTATGGTGTGAACTACTTCAGCATCAAGAACAAGAAAGGCTCAGAGCTGTGG  
CTGGGGGTGGATGCCCTGGGTCTCAACATCTATGAGCAGAATGACAGACTAACTCCCAAGA  
TAGGCTTCCCCTGGAGTGAAATCAGGAACATCTCTTTCAATGATAAGAAATTTGTCATCAAGC  
CCATTGACAAAAAAGCCCCGACTTCGTCTTCTATGCTCCCCGGCTGCGGATTAACAAGCG  
GATCTTGGCCTTGTCATGGGGAACCATGAACTATACATGCGCCGTGCGAAGCCTGATACC  
ATTGAGGTGCAGCAGATGAAGGCACAGGCCCGGGAGGAGAAGCACCAGAAGCAGATGGAG  
CGTGCTATGCTGAAAAATGAGAAGAAGAAGCGTGAAATGGCAGAGAAGGAGAAAGAGAGA  
TTGAACGGGAGAAGGAGGAGCTGATGGAGAGGCTGAAGCAGATCGAGGAACAGACTAAGA  
AGGCTCAGCAAGAACTGGAAGAACAGACCCGTAGGGCTCTGGAACCTTGAGCAGGAACGGA  
AGCGTGCCCAGAGCGAGGCTGAAAAGCTGGCCAAGGAGCGTCAAGAAGCTGAAGAGGCCA  
AGGAGGCCTTGCTGCAGGCCTCCCGGGACCAGAAAAAGACTCAGGAACAGCTGGCCTTGG  
AAATGGCAGAGCTGACAGCTCGAATCTCCAGCTGGAGATGGCCGACAGAGAAGAGGAGA  
GTGAGGCTGTGGAGTGGCAGCAGAAGGCCCAGATGGTACAGGAAGACTTGAGAAAGACCC  
GTGCTGAGCTGAAGACTGCCATGAGTACACCTCATGTGGCAGAGCCTGCTGAGAATGAGCA  
GGATGAGCAGGATGAGAATGGGGCAGAGGCTAGTGCTGACCTACGGGCTGATGCTATGGC  
CAAGGACCGCAGTGAGGAGGAACGTACCACTGAGGCAGAGAAGAATGAGCGTGTGCAGAA  
GCACCTGAAGGCCCTCACTTCGGAGCTGGCCAATGCCAGAGATGAGTCCAAGAAGACTGCC  
AATGACATGATCCCATGCTGAGAACATGCGACTGGGCCGAGACAAATACAAGACCCTGCGCC  
AGATCCGGCAGGGCAACACCAAGCAGCGCATTGACGAATTTGAGTCTATGTAATGGGCACC  
CAGCCTCTAGGGACCCCTCCTCCCTTTTTCTTGTCCCCACACTCCTACACCTAACTCACCT  
AACTCATACTGTGCTGGAGCCACTAACTAGAGCAGCCCTGGAGTCATGCCAAGCATTTAATG  
TAGCCATGGGACCAAACCTAGCCCCTTAGCCCCACCCACTTCCCTGGGCAAATGAATGGC  
TCACTATGGTGCCCAATGGAACCTCCTTTCTTCTCTCTGTTCCATTGAATCTGTATGGCTAGAA  
TATCCTACTTCTCCAGCCTAGAGGTACTTTCCACTTGATTTTGCAAATGCCCTTACACTTACT  
GTTGTCTATGGGAGTCAAGTGTGGAGTAGGTTGGAAGCTAGCTCCCCTCCTCTCCCCTAC  
CACTGTCTTCTCAGGGTCTGAGATTTACACGGTTGGAGTGTTATGCGGTCTAGGGAATGA  
GACAGGACCTAGGATATCTTCTCCAGGATGTCAACTGACCTAAAATTTGCCCTCCCATCCCG  
TTTAGAGTTATTTAGGCTTTGTAAACGATTGGGGGATAAAAAGATGTTCACTCATTTTGTCTT  
ACCTCCCAGATCGGATCTGTTGCAAACCTCAGCCTCAATAAGCCTTGTGCTTGACTTTAGGGA  
CTCAATTTCTCCCCAGGGTGGATGGGGGAAATGGTGCCCTCAAGACCTTACCCAAACATACT  
AGAAGGGCATTGGCCATTCTATTGTGGCAAGGCTGAGTAGAAGATCCTACCCCAATTCCTTG  
TAGGAGTATAGGCCGGTCTAAAGTGAGCTCTATGGGCAGATCTACCCCTTACTTATTATCC  
AGATCTGCAGTCACTTCGTGGGATCTGCCCCCTCCTGCTTCAATACCCCAAATCCTCTCCAGC  
TATAACAGTAGGGATGAGTACCCAAAAGCTCAGCCAGCCCCATCAGGACTCTTGTAAGAA  
GAGGATATGTTACACCTAGCGTCAGTATTTTCCCTGCTAGGGGTTTTAGGTCTCTTCCCCT  
CTCAGAGCTACTTGGGCCATAGCTCCTGCTCCACAGCCATCCCAGCCTTGGCATCTAGAGC  
TTGATGCCAGTAGGCTCAACTAGGGAGTGAGTGCAAAAAGCTGAGTATGGTGAGAGAAGCC  
TGTGCCCTGATCCAAGTTTACTCAACCCTCTCAGGTGACCAAAATCCCCTTCTCATCACTCC  
CCTCCAAAGAGGTGACTGGGCCCTGCCTCTGTTTGACAAACCTCTAACCAGGTCTTGACAC  
CAGCTGTTCTGTCCCTTGGAGCTGTAAACCAGAGAGCTGCTGGGGATTCTGGCCTAGTCCC  
TTCCACACCCCCACCCCTTGCTCTCAACCCAGGAGCATCCACCTCCTTCTGTCTCATGTG  
TGCTCTTCTTCTTCTACAGTATTATGTACTCTAGTGATATCTAAATATTGATTTCTGCCTTCT  
TGCTAATGCCACATTAGAAGATATTAGTCTTGGGGCAGGATGATTTTGGCCTCACTTCTAC  
CACCCCCACACCTGGAAAGCATATACTATATTACAAAATGACATTTTGCCAAAATTATTAATAT  
AAGAAGCTTTCAGTATTAGTGATGTCTGTCACTATAGGTCATACAATCCATTCTTAAAGTA  
CTTGTTATTTGTTTTATTACTGTTTGTCTTCTCCCCAGGGTTCAGTCCTCAAGGGGCCAT

Table 4

CCTGTCCCACCATGCAGTGCCCCCTAGCTTAGAGCCTCCCTCAATTCCTCCCTGGCCACCACC  
CCCCTGCCTCTGTTTGACAAACCTCTAACCCAGGTCTTGACACCAGCTGTTCTGTCCCTTGG  
AGCTGTAAACCAGAGAGCTGCTGGGGATTCTGGCCTAGTCCCTTCCACACCCCCACCCCTT  
GCTCTCAACCCAGGAGCATCCACCTCCTTCTGTCTCATGTGTGCTCTTCTTCTTTCTACAG  
TATTATGTACTCTACTGATATCTAAAAATTGATTTCTGCCTTCCTTGCTAATGCACCATTAGAA  
GATATTAGTCTTGGGGCAGGATGATTTTGGCCTCATTACTTTACCACCCCCACACCTGGAAA  
GCATATACTATATTACAAAATGACATTTTGCCAAAATTATTAATATAAGAAGCTTTCAGTATTA  
GTGATGTCATCTGTCACTATAGGTCATACAATCCATTCTTAAAGTACTTGTTATTTGTTTTAT  
TATTACTGTTTGTCTTCTCCCAAGGGTTCAGTCCTCAAGGGGCCATCCTGTCCCACCATGCA  
GGTGCCCCCTAGCTTAGAGCCTCCCTCAATTCCTCCCTGGCCACCACCCCCCACTCTGTGGCC  
TGACCTTGAGGAGTCTTGTGTGCATTGCTGTGAATTAGCTCACTTGGTGATATGTCCTATATT  
GGCTAAATTGAAACCTGGAATTGTGGGGCAATCTATTAATAGCTGCCTTAAAGTCAGTAACCTT  
ACCTTAGGGAGGCTGGGGGAAAAGGTTAGATTTTGTATTTCAGGGGTTTTTGTGTACTTTTT  
GGGTTTTTAAAAATTgtTTTggAGGGGTTTATGCTCAATCCATGTTCTATTTTCAGTGCc

&gt;488

NCGTCCGTCTCACCCGAGCTGTCCGCACTCCAAAGAACTGGGTACTCAACACTGAG  
CAGATCTGTTCTTTGAGCTAAAAACCATGTGCTGTACCAAGAGTTTGCTCCTGGCTGCTTTGA  
TGTCAGTGCTGCTACTCCACCTCTGCGGCGAATCAGAAGCAAGCAACTTTGACTGCTGTCTT  
GGATACACAGACCGTATTCTTCATCCTAAATTTATTGTGGGCTTCACACGGCAGCTGGCCAA  
TGAAGGCTGTGACATCAATGCTATCATCTTTCACACAAAGAAAAAGTTGTCTGTGTGCGCAA  
TCCAAAACAGACTTGGGTGAAATATATTGTGCGTCTCCTCAGTAAAAAGTCAAGAACATGTA  
AAAAGTGTGGCTTTTCTGGAATGGAATTGGACATAGCCCAAGAACAGAAAGAACCTTGCTGG  
GGTTGGAGGTTTCACTTGCACATCATGGAGGGTTTAGTGCTTATCTAATTTGTGCCTCACTG  
GACTGTCCAATTAATGAAGTTGATTATATTGCATCATAGTTTGCTTTGTTTAAAGCATGAT  
TAAAGTTAACTGTATTTTATGTTATTTATAGCTGTAGGTTTTCTGTGTTTAGCTATTTAATACT  
AATTTTCCATAAGCTATTTTGGTTTAGTGCAAAGTATAAAATTATTTGGGGGGGAATAAGAT  
TATATGGACTTTCTTGCAAGCAACAAGCTATTTTTTAAAAAAACTATTTAACATTCTTTGTTT  
ATATTGTTTTGTCTCCTAAATTGTTGTAATTGCATTATAAAATAAGAAAAATATTAATAAGACAA  
ATATTGAAAAATAAGAAACAAAAAGTAAACAAAAAAACAAAGTCCCTCGGCCNNNNNNNNNN  
NNNNTAATGAAGACTAAGAAAGTTGAAAAAAACAACTATTTTGAAGGTTAAAAAGGGGG  
GGGCCGTTAACTGGTTTAAAAAAACCTTCCCAACCCTCCCCGGAACNNNNNNNNNNNN  
NNNNN

&gt;489

NAACTGGACCTTGAANCGAATACCGTTAATNATGTCCTTGGGTCCCTCCCAATAATA  
ACTCCAANCCCAACCAAGAAAGAATGANATAAAATGAATCAAATCCTTTTCTGGCAACCTTG  
ATTTCAATCCCAAAACCCATCTCTGTTTAAATATTGATGGAAAACAGAACCTGTGAACCTCGA  
TGCCACCCGTCGAAACCAAAATTTTATTCTGGAATTTGCAAATGGATACTCTGACGGCCGA  
CCGAAACCTGGTGAAGCCCTTTGGGCGATTGGTGATCACCTCTAGATCCGTGAAAGCTGGC  
TGCCCCCCCATCCGGGCAAGCAGGGCCAAAGTGGCATCTTCACATTCTGGAACCCACCCA  
GTAACAGCAGCAGGTATTTCTTCTGGTAAATGAGAGCCTTTGAAAACTTTCTGCCCTCAAGT  
ATTTACCATAAATCTCTTTAAAGTGACATGTTGAGAATCAGGGCTCAGAGTTTGAAGTAAAG  
AGTCATTTCTTAGTTTCAGCTTTTCTAGTTTGTACTTTCAGCCTCTGCCCTTTTCAAAGATTTCTG  
GAGAGTCAATTTTTCTCTGTTCCATACTTCTTTTTGAGAGGCAATGATGGCTTCAATGTTGGC  
ACCACCATTTCAATGAAAACCTGGAAGAATTATCTCTACCAGCTCCTGTCTGTCCGATACCACCT  
GATCTGCTCTTCCAGCTTTCATAACCATGTTCTTAAAGTCATTCTTCTCTTCAGTCAGTTGACT  
GATATGCCCTGTGAGCTCAGCATTTTGTCTCAGTAGTCTTTCAGTCAATGAGCCACAAGAAG  
TACTTGGGGACACCAAGCTGGGCTCTTCACCTTGCTGGCCAGTTAATTTCTGTAGTTGTAAA  
ATAATTTTCATCAATATTTTCTGAAACCCAAATGAAATCTTCATCATCTGCTGTTTCAAAGTGA  
GTCTCTCAGAGGCTTTCTGGGGTAGAACCTGTAGTTTGAAGCTACACATTGAAGCTTTTGT  
CTGATCATTTCTAATTCATGATTACAGCCGGTTCCTCCTCCATTCTTTCAATCAATTTAGCGT  
AGTTTGATTCTTTTGTCTCTCTTCTATTTTCTGTTGAAGAACCCAATTTCTAGTTCTATCACTG  
GTTAAGCTCCACGTGGTTGGCTCATTAAAGTTCTGATACAGAATTCTTCTACTTTCTCGTTTT  
TCTTCTCGTTCTAGTTCTTGTCTTCTGGAATTCCTGCATGATTCTTGTAGTCGCTGTCCCTCA  
AGGTCTAACTTATAAACTTGTGTCTTTCTCTTCCAGCTGGCGCTGAAGATCTTCCACTTTG  
GACTGGAGCTCATGCATTTTCTGTCCCTCAGTGTGGCCTCCTGTTCTGTCTGCAGTGT  
TTCTGTGAACCTGCCTATCTTTTCCATTGCTGTCTGTGTTGCAAAGAATCCAGTTTATATT

Table 4

TTTCAGTCTCATTAAACAATTCTACTATGCGACTGTGTTTTCTCTAGCTGTTTCTGCAGCTC  
TTTCAGTAGGTCTCTGAGGGCAAGGGTGGCCGAGACTGTCCAGTACCATCACTGCTCTGC  
AGCTGTGCGTGCAATCCCGCTCCCTATCTAGGGTACTACTCATTTCCCGAATTCGAACTTT  
CTCAGATTCAAGAAGTACCTGAAGCTCTAAGTTTCGACCTTGTTCTTCTGACAACTGGGCATC  
ATATAGCATTCTCTGTGATTCTATTTTTGCTGGGATTGTTTCAGTAGTTGTTTCTGTTGTTCC  
AAAAGTAGATTTAGCTGAAGATTCTTTGTTTCTGACTCTCAAGTGAAAACCTTCAGATCCCTCA  
AGTTCTTCTTTATCCCGTTCTTCACTGCGTCCCAACTTGGCTTCTCTTTCTNCCAAAGCCCA  
CTGGAGCCTCTCTTGTTTTTCGGACNN

&gt;490

&gt;491

&gt;492

&gt;493

CCGGGCAGGTACGCGGGGGTGGCGGCGTTGGGTTGAGCGGGCTTTTTGGAAGTTT  
GTGGCGGAGTTCTGTGATATGAGCAACAATGGACCAGAAGATTTTATCTCTAGCAGCAGAAA  
AAACAGCAGACAACTGCAAGAATTTCTTGGGCAGGGCCTGGGGAATGCTTTTTTATCTCAT  
ATTAGTGCCTGTGATGGCATCTTTCATCTAACACGTGCTTTTGAAGATGATGATATCACGCAC  
GTTGAAGGAAGTGTAGATCCTATTCGAGATATAGAAATAATACATGAAGAGCTTCAGCTTAAA  
GATGAGGAAATGATTGGGCCCATTATAGATAAACTAGAAAAGGTGGCTGTGAGAGGAGGAG  
ATAAAAAACTAAAACCTGAATATGATATAATGTGCAAAGTAAAATCCTGGGTTATAGATCAAAA  
GAAACCTGTTTCGCTTCTATCATGATTGGAATGACAAAGAGATTGAAGTGTGAATAAACACTT  
ATTTTTGACTTCAAAACCAATGGTCTACTTGGTTAATCTTTCTGAAAAAGACTACATTAGAAAAG  
AAAAACAAATGGTTGATAAAAATTAAGAGTGGGTGGACAAGTATGACCCAGGTGCTTTGGT  
CATTCTTTTAGTGGGGCCTTGGAACTCAAGTTGCAAGAATTGAGTGCTGAGGAGAGACAGA  
AGTATCTGGAAGCGAACATGACACAAAGTGCTTTGCCAAAGATCATTAAAGGCTGGGTTTGCA  
GCACCTCCAACTAGAATACTTTTTCACTGCAGGCCCAGATGAAGTGCGTGCATGGACCATCAG  
GAAAGGGACTAAGGCTCCTCAGGCTGCAGGAAAGATTACACAGATTTTAAAAGGGGATTCA  
TTATGGCTGAAGTAATGAAATACGAAGATTTTAAAGAGGAAGGTTCTGAAAATGCAGTCAAG  
GCTGCTGGAAAGTACAGACAACAAGGCAGAAATTATATTGTTGAAGATGGAGATATTATCTTC  
TTCAAATTTAAAACTCAAAAACCGAAGAAGACATAAAATTTAGTTATGCTCAGATAACATAC  
AACTTCAAAAGGCATCTGATTTTTACACATTAATTTCTGAAACCAATGCGACAAATAAGTCGG  
GACAATGGGAATCTTGACAACAAATATTTTTGGTTGACACTCAATATTGGTTCCCCCCTCA  
TAAATGGGTTTATAATGTGACCGGTTGGTTCCGTTTTAACCTCCATTGGAGTTTCGGACCTT  
ATCCGAAACTATCCTTGTTTCAGCGACATGAGAGAACGGGCCTGCTCAAAGGTTGCCGTTCAA  
TGAAAAAGGGGANNNN

&gt;494

ACGCGGGGACTCGCGTCGGTTGGCGACTCCCGGACGTAGGTAGTTTGTGGGCCG  
GGTTCTGAGGCCTTGCTTCTCTTTACTTTTCCACTCTAGGCCACGATGCCGACGTACGCGGG  
GGGGTGAAGAAGGGGCCGGCCTTCAAGCAACAGCGACGCAAGATGGCAGCCACCACGGG  
CTCGGGAGTAAAAGTCCCTCGCAATTTCCGACTGTTGGAAGAACTCGAAGAAGGCCAGAAA  
GGAGTAGGAGATGGCACAGTTAGCTGGGGTCTAGAAGATGACGAAGACATGACACTTACAA  
GATGGACAGGGATGATAATTGGGCCTCCAAGAACAATTTATGAAAACCGAATATACAGCCTT  
AAAATAGAATGTGGACCTAAATACCCAGAAGCACCCCCCTTTGTAAGATTTGTAACAAAAT  
AATATGAATGGAGTAAATAGTTCTAATGGAGTGGTGGACCCAAGAGCCATATCAGTGCTAGC  
AAAATGGCAGAATTCATATAGCATCAAAGTTGCTCTGCAAGAGCTTCGGCGCCTAATGATGT  
CTAAAGAAAATATGAACTCCCTCAGCCGCCCGAAGGACAGTGTTACAGCAATTAATCAAAA  
AGAAAAACCACAGGCCCTTCCCCTTCCCCCAATTCGATTTAATCAGTCTTCATTTTCCACAG  
TAGTAAATTTTCTAGATACGTCTTGTAGACCTCAAAGTACGGGGGGAAAATCCACAAGACAG  
AATAGCCAGATCTCAGAGGAGCCTGGCTAAGCAAAACCCTGCAGAACGGCTGCCTAATTTA  
CAGCAACCATGAGTACAAATGGTGATGATCATCAGGTCAAGGATAGTCTGGAGCAATTGAGA  
TGTCACTTTACATGGGAGTTATCCATTGATGACGATGAAATGCCTGATTTAGAAAACAGAGTC  
TTGGATCAGATTGAATTCCTAGACACCAATACAGTGTGGGAATACACAACCTACTAGCCTAT  
GTGAAACACCTGAAAGGCCAGAATGAGGAAGCCCTGAAGAGCTTAAAAGAAGCTGAAAACCT  
TAATGCAGGAAGAACATGACAACCAAGCAAATGTGAGGAGTCTGGTGACCTGGGGCAACTT  
TGCCTGGATGTATTACCACATGGGCAGACTGGCAGAAGCCAGACTTACCTGGACAAGGTG  
GAGAACATTTGCAAGAAGCTTTCAAATCCCTTCCGCTATAGAATGGAGTGTCAGAAATAGA  
CTGTGAGGAAGGATGGGCCTTGCTGAAGTGTGGAGGAAAAAATTATGAACGGGCCAAGGCC

Table 4

TGCTTTGAAAAGGTGCTTGAAGTGGACCCTGAAAACCCTGAATCCAGCGCTGGGTATGCCA  
TCTCTGCCTATCGCCTGGATGGCTTTAAATTAGCCACAAAAAATCACAAAGCCATTTTCTTTGC  
TTCCCCTAAGGCAGGCTGTCCGCTTAAATCCAGACAATGGATATATTAAGGTTCTCCTTGCC  
CTGAAGCTTCAGGATGAAGGACAGGAAGCTGAAGGAGAAAAAGTACATTGAAGAAGCTCTAG  
CCAACATGTCCTCACAGACCTATGTCTTTCGATATGCAGCCAAGTTTTACCGAAGAAAAAGGC  
TCTGTGGATAAAGCTCTTGAGTTATTA AAAAAGGCCCTTG CAGGAAACACCCACTTCTGTCTTA  
CTGCATCACCAGATAGGGCTTTGCTACAAGGCACAAATGATCCAAATCAAGGAGGCTACAAA  
AGGGCAGCCTAGAGGGCAAAACAGAGAAAAAGCTAGACAAAATGATAAGATCAGCCATATTTT  
ATTTTGAATCTGCAGTGGAAAAAAGCCACATTTGAGGTGGCTCATCTAGACCTGGCAAGA  
ATGTATATAGAAGCAGGCAATCACAGAAAAGCTGAAGAGAAATTTCAAAAATTGTTATGCATG  
AAACCAGTGGTAGAAGAAACAATGCAAGACATACATTTCCACTATGGTCGGTTTTCAGGAATTT  
CAAAAGAAATCTGACGTCAATGCAATTATCCATTATTTAAAAGCTATAAAAAAGAACAGGCA  
TCATTAACAAGGGATAAAAAGTATCAATTCCTTTGAAGAAATTTGTTTTAAGGAAACTTCGGAGA  
AAGGCATTAGATCTGGAAGCTTGAGCCTCCTTGGGTTCTGTCTACAAATTGGAAGGAAATAT  
GAATGAAGCCCTGGAGTACTATGAGCGGGCCCTGAGACTGGCTGCTGACTTTGAGAACTCT  
GTGAGACAAGGTCTTAGGCACCCAGATATCAGCCACTTTCACATTTTCAATTTTATGCT  
AACATTTACTAATCATCTTTCTGCTTACTGTTTTAGAAAACATTATAATTTCACTGTAATGATGT  
AATTTTGAATAATAAATCTGACAAAATATTAGTTGTGTTCAACAATTAGTGAAACAGAATGTG  
TGTATGCATGTAAGAAAGAGAAATCATTTGTATGAGTGCTATGTAGTAGAGAAAAAATGTTAG  
TTAATTTGTAGGAAATAAACATTGGACTTACACGAAAtgttaattcattcattttattgtgaaataaaaaataaaa  
tccttagctcctccaccaactgaacagaccctctggccaaggagacccagaaaccttaaaaactaagtgtcccaacctgacaagat  
gagagatcattcacacctcattatattccctccctgctaactgccattggacttttccactgagttaaacagaaaccca  
>495

NNNNCGCGGCCGCGCTCGACTACGGCTGCGAGAAGCCCCGGGAATAGCAGAATAGG  
AGCAAGCCAGCACTAGTCAGCTAACTAAGTGACTCAACCAAGGCCTTTTTCTTGTATCTT  
TGCAGATACTTCATTTTCTTAGCGTTTTCTGGAGATTACAACATCCTGCGGTTCCGTTTTCTGGG  
AACTTTACTGATTTATCTCCCCCTCACACAATAAGCATTGATTCCTGCATTTCTGAAGATCT  
CAAGATCTGGACTGTGTGAAAAAATTTCCAGTGAGGCTCACTTATGTCTGTAAGATGGG  
AAAAAATACAAGAACATTGTTCTACTAAAAGGATTAGAGGTCATCAATGATTATCATTTTGA  
ATGGTTAAGTCCTTACTGAGCAACGATTTAAACTTAATTTAAAAATGAGAGAAGAGTATGAC  
AAAATTGAGATTGCTGACTTGATGGAAGAAAAGTTCCGAGGTGATGCTGGTTTGGGCAAAC  
AATAAAATTTTCGAAGATATACCAACGCTTGAAGACCTGGCTGAAACTCTTAAAAAAGAAAA  
GTTAAAAGTAAAAGGACCAGCCCTATCAAGAAAGAGGAAGGAAGGAGTGGATGCTACTTCAC  
CTGCACCCTCCACAAGCAGCACTGTCAAACTGAAGGAGCAGAGGCAACTCCTGGAGCTCA  
GAAAAGAAAAAATCAACCAAAGAAAAGGCTGGACCCAAAGGGAGTAAGGTGTCCGAGGAA  
CAGACTCAGCCTCCCTCTCCTGCAAGAGCCGGCATGTCCACAGCCATGGGCCGTTCCCAT  
CTCCCAAGACCTCATTGTCAGCTCCACCCAACTTCTTCACTGAGAACCAGAAAACAGTG  
GCCAAATGTCAGGTAACCTCCAGAAGAAATGTTCTCCAAAAACGCCAGTGATAGTGAAGGT  
ACTGAGTACAACAAAGCCATTTGAATATGAGACCCCAAGAAATGGAGAAAAAATAATGTTTCA  
TGCTACAGTGGCTACACAGACACAGTTCTTCCATGTGAAGGTTTTAAACACCAGCTTGAAGG  
AGAAATTCAATGGAAGAAAATCATCATCATATCAGATTATTTGGAATATGATAGTCTCCTAGA  
GGTCAATGAAGAATCTACTGTATCTGAAGCTGGTCTAACCACAACTTTGAGGTTCCAAATAA  
AATCATCAACAGAGCAAAGGAACTCTGAAGATTGATATTCTTCACAAACAAGCTTCAGGAAA  
TATTGTATATGGGGTATTTATGCTACATAAGAAAACAGTAAATCAGAAGACCACAATCTACGA  
AATTCAGGATGATAGAGGAAAAATGGATGTAGTGGGGACAGGACAATGTCACAATATCCCCT  
GTGAAGAAGGAGATAAGCTCCAATTTTCTGCTTTCGACTTAGAAAAAAGAACAGATGTCA  
AACTGATTTAGAAATGCATAGTTTTATCCAGATAAAGAAAAAACAACCCGAGAAACAAT  
GACCCCAAGAGCATGAAGCTACCCCAAGGAAGTCAGCTTCCAAATCCTTCAGAGGCCA  
GCACAACCTTCCCTGAGAGCCATCTTCGGAATCCTCAGATGCCACCAACAACCTCCATCCAGC  
AGTTTCTTACCAAGAAAAGTGAAGACACAATCTCCAAATGAATGACTTCATGAGGATGCA  
GATACTGAAGGAAGGGAGTCATTTTCCAGGACCGTTTCATGACCAGCATAGGCCAGCTGAG  
AGCCATCCCCACACTCCTCAGATGCCTCCATCAACACCAAGCAGCAGTTTCTTAACCAGTT  
GAAACCAAGACTGAAGACTGAACCTGAAGAAGTTCCATAGAAGACAGTGCCCAAGAGTGC  
CTCAAAGAAGTGATGGTGCTGAACGCAACAGAAATCATTTGTATATGAGCCCAAGAGCAGAA  
GAAAATGTTTCATGCCACAGTGGCAACTGAGAATGAAGTCTTCCGAGTGAAGGTTTTTAATAT  
TGACCTAAAGGAGAAGTTACCCCAAGAAGATCATTGCCATAGCAAATTATGTTTGCCGCA

Table 4

ATGGGTTCTGAGGTATATCCTTTCACACTTGTGGCTGATGTGAATGCTGACCGAAACATG  
GAGATCCCAAAAGGATTGATTAGAAGTGCCAGCGTAACTCCTAAAATCAATCAGCTTTGCTC  
ACAACTAAAGGAAGTTTTGTGAATGGGGTGTGGAGGTACATAAGAAAAATGTAAGGGGTG  
AATTCACCTTATTATGAAATACAAGATAATACAGGGAAGATGGAAGTGGTGGTGCATGGACGA  
CTGACCACAATCAACTGTGAGGAAGGAGATAAACTGAACTCACCTGCTTTGAATTGGCACC  
GAAAAGTGGGAATACCGGGGAGTTGAGATCTGTAATTCATAGTCACATCAAGGTCATCAAGA  
CCAGGAAAAACAAGAAAGACATACTCAATCCTGATTCAAGTATGGAACTTCACCAGACTTTT  
TCTTCTAAAAATCTGGATGTCATTGACGATAATGTTTATGGAGATAAGGTCTAAGTGCCTAAAA  
AAATGTACATATACCTGGTTGAAATACAACACTATACATACACACCACCATATATACTAGCTG  
TTAATCCTATGGAATGGGGTATTGGGAGTGCTTTTTTAATTTTTTCATAGTTTTTTTTTAATAAA  
TGGCATATTTTGCATCTACAACCTCTATAATTTGAAAAATAAATAAACATTATCTTTTTTGTA  
AAAGAAAAAAAAGGGCGCGCCGNNNNNNNNNNNN

&gt;496

CAAAACAGGTCTATGTTTTGTACGTGCCTGGGCAGGGCGCTTAGCGTAGCTGGAA  
TGCGCAGGACTGGCAGTTGCACAATAATAAATTAGTCTGAACGTTGTATTCCAGTTGACCC  
AGGTCCTCTCGAAGAACAGAGGGGCAACTGTGCAAAATCTTGGTGAAGTGTACCGTGA  
AAAGGCACTTCTCCTTGAGAAGCCTGACAGTGTCGTTAATGTCCTGCTGGCGCATGGTGAAA  
ATTTCAAGGCAACAGTAAAGCACCTCTTTAATTTCCCTTCTCCAAGCCCAAGCTTTTGCAGG  
TAACTGGAGCGCTTCTCATTTCATAAATAGGCAGTTTCAATAACTGGGACTTTTCTTCAAG  
ACCACACACACAGGCTCTGGATTGACACCAAGAGAATAAATTCTGAAATGATGTCCAGCAA  
CTGTTGAAGACTGGCACCTCGCCGTACACTGAGCAATTCATTAATATGGGCATTGCTGAAAC  
CCATGTCCAGGAGGGAAGTCAAGACCTCTCTAGCTCCAAGGACCTTGTACCACAGGAGT  
CCCCTGCTTCTCAAGGAGGCACTGAACAAGATTCTCCTGCACTCTGGTCTGACATAGT  
TATTGGATCTAACACAAGATAACTCCTCAATGACCCCTCCATTGGAGGCTGTAGTCAGTTTG  
CGCAACAAAGAAGCTGTCGTCCTTCTCTGTTCTCCAAGATGAGGAGTCTGCCTAGCCATACA  
GGCCCAGGTGAGGGGGATCAGGCGGTGCCAATCAAGGACCTGACGGCCGAACGCAGCCAT  
AGCGCGGAGAAGATGGCAGCCGGACGCGTGG

&gt;497

&gt;498

NNNNNGATGGGGCGCGGGTCCAGCGACCCACGCGTCCGGCCGTGCGGTACTTG  
TCATGGAGCTGGCACTGCGGCGCTCTCCCGTCCCGCGGTGGTTGCTGCTGCTGCCGCTGC  
TGCTGGGCCTGAACGCAGGAGCTGTCAATTGACTGGCCACAGAGGAGGGCAAGGAAGTAT  
GGGATTATGTGACGGTCCGCAAGGATGCCTACATGTTCTGGTGGCTCTATTATGCCACCAAC  
TCCTGCAAGAAGTCTCAGAACTGCCCTGATGTGGCTTCAGGGCGGTCCAGCGGGT  
CTAGCACTGGATTGGAACTTTGAGGAAATTGGGCCCCCTTGACAGTGATCTCAAACCACGG  
AAAACCACCTGGCTCCAGGCTGCCAGTCTCCTATTTGTGGATAATCCCGTGGGCACTGGGT  
TCAGTTATGTGAATGGTAGTGGTGCCTATGCCAAGGACCTGGCTATGGTGGCTTCAGACATG  
ATGGTTCTCCTGAAGACCTTCTCAGTTGCCACAAAGAATCCAGACAGTTCATTCTACATT  
TTCTCAGAGTCTATGGAGGAAAAATGGCAGTGGCATTGGTCTAGAGCTTTATAAGGCCAT  
TCAGCGAGGGACCATCAAGTGCAACTTTGCGGGGTTGCCCTGGGTGATTCTGGATCTCC  
CCTGTTGATTCCGTGCTCTCCTGGGGACCTTACCTGTACAGCATGTCTCTTCTCGAAGACAA  
AGGTCTGGCAGAGGTGTCTAAGGTTGCAGAGCAAGTACTGAATGCCGTAAATAAGGGGCTC  
TACAGAGAGGCCACAGAGCTGTGGGGGAAAGCAGAAATGATCATTGAACAGAACACAGATG  
GGGTGAAGTCTATAACATCTTAAGTAAAGCACTCCACGTCTACAATGGAGTCGAGTCTA  
GAATTCACACAGAGCCACCTAGTTTGTCTTTGTGAGCGCCACGTGAGACACCTACAACGAGA  
TGCTTAAGCCAGCTCATGAATGGCCCCATCAGAAAGAAGCTCAAATTTCTGAGGATC  
AATCCTGGGGAGGCCAGGCTACCAACGTCTTTGTGAACATGGAGGAGGACTTCATGAAGCC  
AGTCATTAGCATTGTGGACGAGTTGCTGGAGGCAGGGATCAACGTGACGGTGTATAATGGA  
CAGCTGGATCTCATCGTAGATACCATGGGTGAGGAGGCTGGGTGCGGAACTGAAGTGGC  
CAGAACTGCCATAAATTCAGTCAGCTGAAGTGGAAGGCCCTGTACAGTGACCCCTAAATCTTG  
GAAACATCTGCTTTTGTCAAGTCTACAAGAACCTTGCTTTCTACTGGATTCTGAAAGCTGGT  
CATATGGTTCTTCTGACCAAGGGGACATGGCTCTGAAGATGATGAGACTGGTGAAGTCAAGC  
AAGAATAGGATGGATGGGGCTGGAGATGAGCTGGTTTGGCCTTGGGGCACAGAGCTGAGC  
TGAGGCCGCTGAAGCTGTAGGAAGCGCCATTCTCCCTGTATCTAACTGGGGCTGTGATCA  
AGAAGGCTTCTGACAGGATTAATAAATCATTGTCTCTGGAGGCAATTTGAAAT  
TATTTCTGCTTCTTAAAAAACCTAAGATTTTTTAAAAAATTGATTTGTTTTGATCAAAATAAAG



Table 4

GATGATAATAGATATTATTTTTCTTATGACAGAAGCAAATGATGTGATTTATAGAAAACTGG  
GAAATACAGGTACCCAAAGAGTAAATCAACATCTGTATACCCCTTCCCAGGGGTAAGCACT  
GTTACCAATTTAGCATATGTCCTTGCAGAATTTTTTTTTCTATATATACATATATATTTTTTACC  
AAAATGAATCATTACTCTATGTTGTTTTACTATTTGTTTGACATATCAGTATATCTGAAACACCT  
TTTCATGTCAATAAATGTTCTTCTAACATTTTTAAAAAANNNNNNNNNNNNN  
NN

&gt;499

NNNNNAAAAAACCCCCCAAAAAGGGGGGGGAAAAAACCCCCCAAAAGGGGGAATT  
GGGGGCCCCCGGGGGGGGTGTTTTATTTCAATTTTTAAATTTGTTTTTTTTATTAACAA  
GTGTAACCTCTTTATTAAGATGGAATTGTTCTTATTAAAGAAATAGATGAAAATGGTTAAGTACA  
ATTAATGGCTCCAAAAGTCTTACAATGAAAACAACAGTCCTGCCAGTTGTTCTTCCAGAGG  
CAAATACTTTTCATTCTCTTAGTTTTTCCGTTAGTTACCTTCATGGGTTTTTCCAAATTTAT  
TGTTTTTTTTTAGTTTTTCAAGTGAATGCATATTAATACATAAAATTTTAAAAAGGCTTTTCA  
GTTTATAATGCATCCTAACAGTCCCCTGCCCCATCCCTCCTAATTCTCCAGAGCAATGACTTT  
TAACTCTTTTAGCAATGTCTTCTGTTTTTCCCTCACATAACTTAGTCATTTTCATTATTATATAT  
TATATAGTGATTTCTGGATATGACAGATGAGGATTTAGCTCTTACACCATCACAACTTCACTT  
TTCCTCCCATTGTCAGAGTAGTTACCATTTTAGGGGCTAAGCAGTCACATCAATTGATGA  
CTGTGACATACTGCTCCTTGTGAGAAAAACAGTGATTATGCTCTTCTATCCTGTACTTC  
TTTCTGCCCTAGAATGATTGCCTAACCAACCCTTTCCCCTTGTTTTTTTTTTTTTTTACTTT  
TGCTTTATCTTCAATGAACCTTCTTCCAAATGCCCAATCTGGCAATAAGTTATTATTTTTAA  
GAGAAGGGATCTCACTAAGGTGGCCAGGCTGGTCTGGAACCTTGGGCTCAAGTCGTCCTG  
CTGCTGAGCCTCCTGAGTAGCTGGGACTACAGGCATGGGCCATTCCACCCAGCTAACCGAT  
TAATATTTTTACTGTTCCCTTTTTAAAGCTAGCTCCATAGCTGGAATATTGCCTGTGTTGGATCC  
TATTTGCTGGATTCATGTCTCTGTTTGTGTACTCCTTCATTTTGCTGGAGTATTTTCTC  
CAACAGCTTCCCTAAAAAGGGCACATGGAGGTAACCCCTGAGTCTTTGCTTGTCTAAAAATG  
TATTATTTTACCTTCACCCCTTGATTATTTGGGTGAATATAGATTTATCAGTTGAAAATAACTTTC  
TAGAATTATGAAGGCATGGTCCATTGTTTTACGATTTCTTTTCGAGACAAGGTCTCTTCTGT  
CACCCCGGCTGGAGTGCAGTGGCACAATCAGACTCACTGCAGCCTTGAAGCTCGTGGGCTC  
AATTAATCTTCCATCTCAGCTTCCCTGACTAGATGGGAATACAGGTGTGCGCCACAATGCCC  
AGCTAATTTTTGTGTTTTTGTAGAGATGGGGCTTTGCCATGTTGCCAAGCTGGTCTCAAGT  
GATCTGCCTGCCTTAGCCTCCCAAAGCGCTGGGATTACAGGTGTGAGCCACTGTGCCTGGC  
TGTTTTTTCTTTATTTTCTCTACTTCATTCAATTTCTCAAAGGCATCTGAAACTCCCTGGG  
CCAAAACCAAGTCAAACCTCCATCAGAATATCCTGCTACTTATAACTTTAAATATATCTTAAA  
TCACAATTTCTTACTACATGCAACCCTTTGGTTCAAGCAACCATCATCCCTCACTTGAACCTTAT  
AATTGGTTTTCTGCTTCTGTATTTTTTAAATTATAAAATACTTCAAATAAACCATGTGTGGC  
CTTATACTTTTTACTACATAAAAAGAATGAAGATGTGCCGGGTGTGGTGGCTCAAGCCGGTA  
ATCCCAGCACTTTGGGAGGCTGAGGTGGGTGAATCGCTTGCGGTACAGAGTTCGAGACTAG  
CCTGACCAACATGGTGAACCCCATCTCTACTAAAAATACAAAATACAAAATAGCCGGGC  
GTGGTGGCGCGCACCTGGTCTAGCTACTTGGGAGCCTGAGGCAGGAGAATCGCTTGAAT  
CTGGGAAGGCGGAGGTTGCAGTAAGCCGAGGTACACCATTCATGCTAGCCTGGGCAAC  
AAGAGCGAAACGCTGTCTAAAAAAGAACTTACATACTTAAACATCGAATTGCTTTAAGT  
GTTTGGCATTCACTGTTCCCGTGCATGCCAGCAGCTTCTTACTGCAAACACCTGAGACTTGC  
TATAGAGCAGCTGGACTATGTTCCGCCCACACACAGGACAGGGAGCTGACAACCAAGGAGG  
GGGGCGGGATCAATACTCCAGCTTTCCCCCTCCATTTCCCTGTATCTCAGCAGTATGGAGC  
TTGTTATCAATGAGAACCTGCTCGCTGACTTTAAATTGCTTTTCTTACCTTCTCAGTTCACTTT  
CTCCGTACCTCAATTGATGATTTCTGGTATGACCTAGCAAATACACTGCTTTCAGTAAATTT  
CAGTCTTGCAATCTGCTTTGGGTTCCCAATCTAAGACAGAAACATACTCATTTTCCCATCAC  
TGGACTTCCAGGTTGTTTTCAATTTTTCACTGTTACAAACAAGGTGGCAACATTTATCTACAAA  
CCTCTGGATATACACGTAGGAAGCTTTTGGTATTTCCACTAGTGAAACTGCTCAGTTGAAGG  
GTATGTGGATCTTCATCTTTAATAAATATTACCAACATGTGAAAAGCCCGACAATGTCAAGGA  
CTGGCAAGAGTGCCACATGTGATGGGTGTGGAATGGCAGCTCACTGTAGCAGGTGCTGGG  
GACTCAGTTGGGGTCTTGGAGAAGCACTTAGTTATAGCAAGAATGTCTCATAAATGGTATCT  
GATAGAGCAAGAGTAGTGGGAATAAAAACTAGTTGCTTAGAAATAATTATAGATCTAAAGT  
CAACAAAAACCTTTTCTAATGTAAAAATACATACTTTTTTTCAGAGGGAGGGGGAACAACTTA  
AACTAGAAAAACCTTTCATATTAATCATTCTTCTCATATACTTCAAATTTGACTTAATGCCTTT  
CTCCTCCTGGACATCAGAGAGAACACCTGGGTATTCTGGCAGAAGTTTATATTTCTCCAAAT

Table 4

CAATTTCTGGAAAAACGTGTCACTTTCAAAGTCTTGCATGATCCTTGTCAAAATAGTTTAA  
GATGGCCTGGGTGATTTCATGGCTTCCTTATAAACAGAACTGCCACCAACTATCCAGACCATG  
TCTACTTTATTTGCTAATTCTGGTTGTTGAGTAAGTTTTAAGGCATCATCTAGACTTCTGGAAA  
GAAAATGAGCTCCTTGTGGAGGTTCTTGTAGTTCTCTGCTGAGAACTAAATTAATTCTACCCCT  
TTAAAGGTCGATTCTTCTCAGGAATGGAGAACCAGGTCTTCTTACCCATAATCACCAGATTCT  
GTTTACCTTCTACTGAAGAGGTTGTGGTCATTCTCTGGAAATATCTGAATTCATTCTGAGCG  
GTGGCCAGGGCAGGTCCCCGTTCTTGCCGATGCCCATGTTCTGGGACACAGCGACGATGC  
AGTTTAGCGAACCAACCATGACAGCAGCGGGAGGACCTCCGAGCCCGCTCGTTACAGCAGA  
ACGCGCGGTCAAGTTTGGCGCGAAATTGTGGCCGCCCGCCCCCTCGTCCCCATTTGTGC  
AGGCGAGGCCCGCCCCCGCCCCCGGCCGACGAGGGTGCAGCGCTGCTCGCGCCCG  
CAGACGCCTGGGAACCTGCGGCCGCGGGTTCGCGCTCCTCGCCGGGCCATGCCGCACAG  
GGCTGCCATCCTTGCCCTGCCATGTCTCGCCGGAAGCCTGCGTCGGGCGGCCCTCGTGCC  
TCCAGCTCAGCCCCGTGCGAGGCAAGCGTTTTGAGCCGATTCTTCCAGTCTACGGGAAGCC  
TGAAATCCACCTCCTCCTCCACAGGTGCAGCCGACCAGGTGGACCCTGGCGCTGCAGCGG  
CCGCAGCGCCCCCAGCGCCCCGCTTCCCGCCCCAGCTGCCGCCGACGTAAGTACAGAAA  
TTGACAGAAGAAAGAAGAGACCATTTGAAAATGATGGGCCTGTTAAAAAGAAAGTAAAGAAA  
GTCCAACAAAAGGAAGGAGGAGTGTCTGGGAATGTCTGGCAACTCTGAGCCAAAGAAAT  
GTCTGAGGACCAGGAATGTTTCAAAGTCTCTGGAAAAATTGAAAGAATTCTGCTGCGATTCT  
GCCCTTCTCAAAGTAGAGTCCAGACAGAATCTCTGCAGGAGAGATTGTCAGTTCTGCCAAA  
ATGTACTGATTTTGTATGATATCAGTCTTCTACACGCAAGAAATGCAGTTTCTTCTGAAGATTCT  
GAAACGTCAAATTAATCAAAAGGACACAACACTTTTTGATCTCAGTCAGTTTGGATCATCAA  
TACAAGTCATGAAAATTTACAGAAAATGCTTCCAAATCAGCTAACAAACGGTCCAAAGCAT  
CTATACGCCGCTAGAATTACAATACATAGAAATGAAGCAGCAGCACAAAGATGCAGTTTTGT  
GTGTGGAATGTGGATATAAGTATAGATTCTTTGGGGAAGATGCAGAGATTGCAGCCCGAGA  
GCTCAATATTTATTGCCATTTAGATCACAACCTTTATGACAGCAAGTATACCTACTCACAGACT  
GTTTGTTCATGTACGCCGCTGTTGGCAAAAGGATATAAGGTGGGAGTTGTGAAGCAAACT  
GAAACTGCAGCATTAAAGGCCATTGGAGACAACAGAAAGTCACTCTTTTCCCGGAAATTGAC  
TGCCCTTTTATACAAAATCTACACTTATTGGAGAAGATGTGAATCCCCTAATCAAGCTGGATGA  
TGCTGTAAATGTTGATGAGATAATGACTGATACTTCTACCAGCTATCTTCTGTGCATCTCTGA  
AAATAAGGAAAATGTTAGGGACAAAAAAGGGCAACATTTTATTGGCATTGTGGGAGTGC  
AGCCTGCCACAGGCGAGGTTGTGTTTGATAGTTTCCAGGACTCTGCTTCTCGTTACAGAGCTA  
GAAACCCGGATGTCAAGCCTGCAGCCAGTAGAGCTGCTGCTTCTCGGCCCTTGCCGAGC  
AAACAGAGGCGCTCATCCACAGAGCCACATCTGTTAGTGTGCAGGATGACAGAATTCGAGT  
CGAAAGGATGGATAACATTTATTTGAATACAGCCATGCTTTCCAGGCAGTTACAGAGTTTAA  
TGCAAAAGATACAGTTGACATCAAAGGTTCTCAAATTTATTCTGGCATTGTTAACTTAGAGAA  
GCCTGTGATTTGCTCTTTGGCTGCCATCATAAAATACCTCAAAGAATTCAACTTGGAAAAGAT  
GCTCTCAAACCTGAGAATTTTAAACAGCTATCAAGTAAAATGGAATTTATGACAATTAATGG  
AACAACATTAAGGAATCTGGAAATCCTACAGAATCAGACTGATATGAAAACCAAAGGAAGTTT  
GCTGTGGGTTTTAGACCACACTAAACTTCATTTGGGAGACGGAAGTTAAAGAAGTGGGTGA  
CCCAGCCACTCCTTAAATTAAGGGAAATAAATGCCCGGCTTGATGCTGTATCGGAAGTTCTC  
CATTGAGAACTAGTGTGTTTGGTCAGATAGAAAATCATCTACGTAAATTGCCCGACATAGAG  
AGGGGACTCTGTAGCATTATCACAAAAAATGTTCTACCCAAGAGTTCTTCTTGATTGTCAA  
ACTTTATATCACCTAAAGTCAGAATTTCAAGCAATAATACCTGCTGTTAATTTCCACATTTCAGT  
CAGACTTGCTCCGGACCGTTATTTTAGAAATTCCTGAACTCCTCAGTCCAGTGGAGCATTAC  
TTAAAGATACTCAATGAACAAGCTGCCAAAGTTGGGGATAAACTGAATTTTAAAGACCTT  
TCTGACTTCCCTTTAATAAAAAAGAGGAAGGATGAAATTCAAGGTGTTATTGACGAGATCCGA  
ATGCATTTGCAAGAAATACGAAAAATACTAAAAATCCTTCTGCACAATATGTGACAGTATCA  
GGACAGGAGTTTATGATAGAAATAAAGAAGTCTGCTGTATCTTGTATACCAACTGATTGGGTA  
AAGGTTGGAAGCACAAAAGCTGTGAGCCGCTTCACTCTCCTTTTATTGTAGAAAATTACAGA  
CATCTGAATCAGCTCCGGGAGCAGCTAGTCTTGTACTGCAGTGTGAATGGCTTGATTTTCT  
AGAGAAATTCAGTGAACATTATCACTCCTTGTGTAAAGCAGTGCATCACCTAGCAACTGTTGA  
CTGCATTTTCTCCTGGCCAAGGTGCTAAGCAAGGAGATTACTGCAGACCAACTGTACAAG  
AAGAAAGAAAAATTGTAATAAAAAATGGAAGGCAACCCTGTGATTGATGTGTTGCTGGGAGAA  
CAGGATCAATATGTCCCAAATAATACAGATTTATCAGAGGACTCAGAGAGAGTAATGATAATT  
ACCGGACCAACATGGGTGGAAAGAGCTCTACATAAAACAAGTTGCATTGATTACCATCAT  
GGCTCAGATTGGCTCCTATGTTCTGCAGAAGAAGCGACAATTGGGATTGTGGATGGCATT

Table 4

TCACAAGGATGGGTGCTGCAGACAATATATATAAAGGACGGAGTACATTTATGGAAGAACTG  
ACTGACACAGCAGAAATAATCAGAAAAGCAACATCACAGTCCTTGGTTATCTTGGATGAACTA  
GGAAGAGGGACGAGCACTCATGATGGAATTGCCATTGCCTATGCTACACTTGAGTATTTTCAT  
CAGAGATGTGAAATCCTTAACCCTGTTTGTACCCATTATCCGCCAGTTTGTGAACTAGAAAA  
AAATTAATCAGACAGGTGGGGAATTACCACATGGGATTCTTGGTCAGTGAGGATGAAAGCA  
AACTGGATCCAGGCACAGCAGAACAAAGTCCCTGATTTTGTACCTTCCTTTACCAATAACTA  
GAGGAATTGCAGCAAGGAGTTATGGATTAAATGTGGCTAAACTAGCAGATGTTCTTGAGAA  
ATTTTGAAGAAAGCAGCTCACAAGTCAAAAGAGCTGGAAGGATTAATAAATACGAAAAGAAA  
GAGACTCAAGTATTTTGCAGGTTATGGACGATGCATAATGCACAAGACCTGCAGAAGTGGA  
CAGAGGAGTTCAACATGGAAGAAACACAGACTTCTCTTTCATTAAAAATGAAGACTACATTT  
GTGAACAAAAAATGGAGAATTAATAATACCAACTGTACAAAATAACTCTCCAGTAACAGCCTA  
TCTTTGTGTGACATGTGAGCATAAAATTATGACCATGGTATATTCTTATTGGAACAGAGAGG  
TTTTTCTGAAGACAGTCTTTTTCAAGTTTCTGTCTTCTAAGTTTCTACGTATAAACACTCTT  
GAATAGACTTCCACTTTGTAATTAGAAAATTTTATGGACAGTAAGTCCAGTAAAGCCTTAAGT  
GGCAGAATAATTCCCAAGCTTTTGGAGGGTGATATAAAAAATTTACTTGATTTTTTATTTGT  
TTCAGTTCAGATAATTGGCAACTGGGTGAATCTGGCAGGAATCTATCCATTGAACTAAAATAA  
TTTTATTATGCAACCAGTTTATCCACCAAGAACATAAGAATTTTTTATAAGTAGAAAGAATTGG  
CCAGGCATGGTGGCTCATGCCTGTAATCCAGCACTTTGGGAGGCCAAGGTAGGCAGATCA  
CCTGAGGTCAGGAGTTCAAGACCAGCCTGGCCAACATGGCAAACCCCATCTTACTAAAAA  
TATAAAGTACATCTC

&gt;500

&gt;501

&gt;502

&gt;503

&gt;504

&gt;505

&gt;506

ACGCGGGGGTCTGCCGCGGTGGCCGGGTGCCGATTTGACAAGATCAAAGCTGCAG  
GAAAATGGACAGTGAGGTTTCAAGAGATGGAAGGATCTTGGATTGATTGATGCTTGGC  
GAGAAGACAAGCTGCCCTTATGAGGATGTGCAATACCACTGAATGAGCTTCTGAACCTGAA  
CAAGACAATGGTGGCACCACAGAATCTGTCAAAGAACAAGAAATGAAGTGGACAGACTTAGC  
CTTACAGTACTCGTCTTGGTGAGAGCGTGAGCTGCTGAGATTTGGGAGTCTGCGCTAGGCC  
CGCTTGGAGTTCTGAGCCGATGGAAGAGTTCACTCATGTTTGCACCCGCGGTGATGCGTGC  
TTTTCGCAAGAACAAGACTCTCGGCTATGGAGTCCCATGTTGATGGATCCTGAGCTTGAA  
AAAACTGAAAGAGAATAAAATATCTTTAGAGTCGGAATATGAGAAAATCAAAGACTCCAAGT  
TTGATGACTGGAAGAATATTCGAGGACCCAGGCCTTGGGAAGATCCTGACCTCCTCCAAGG  
AAGAAATCCAGAAAGCCTTAAGACTAAGACAACCTTGACTCTGCTGATTCTTTTTCTTTTTT  
TTTTTTAAATAAAATACTATTAAGTGGACTTCTAATATATACTTCTATCAAGTGGAAAGGA  
AATTCAGGCCCATGGAACTTGGATATGGGTAATTTGATGACAAATAATCTTCACTAAAGGT  
CATGTACAGGTTTTTATACTTCCAGCTATTCCATCTGTGGATGAAAGTAACAATGTTGGCCA  
CGTATATTTACACCTCGAAATAAAAAATGTGAATACTGGCCAGACAAAAAACAAAAAACCC  
GGGGGGGGCCTCGGGAGTGTTTTAAAGGATGAAAGGCACAGGTACANNNNNNNNNNNNNN  
NN  
NN  
GGGGTGGCCCAACCCCAAAAGGTTTTTTATTTTGGGGGATCCCCGGGTCCCCACCCCAA  
ATTAATTTCTTTTCCCTTTCCCGCATAAATAAATCTTGGCCCGGGTTTTTGGGTGGGGGAA  
GGGGNNNN

&gt;507

&gt;508

&gt;509

&gt;510

NNNNNNNNNGCTATGTTGCCCAAGCTTGTCTCAAACCTCCTGGTCTCAAGCAATCCT  
TCTGCCCTGGCCCTCCCAAAGTTCTGGGTATTACAGGTGTGAGCCAGCACTCCTGGCCCAT  
CATAGTCTTAAACCAAAAGTTCTGTGTCCGAGGAAACAGGAGTGATTGGTCACTCTATT  
TATAGTACATAGCACTTACAGGCTACTTCGAGGGACTTNGGGTACCCCTGTTCTTGGATG  
GCACATCATTATCAGCAACAGGAACAGTTTCTCTGAGCCCTGGCCCTGGAGAATCTCTAGC

Table 4

TTAGCTATTTTAGACTTGGGGTCAAAGAAGAGAAGCCTCTTGCCCAACTCAGCAACACCAGA  
CAGGGGCTCATATCTTGGCTCGTGGAAAGTAGCTTTTATACCAAGCCCTCTCCTAGGGGCA  
TAGGAGCCAGCATTCCCAGTTCTGGGGACAGAAAAGGCAGGTGCCCCATTGGAGCCGAGAT  
CCTCTACCGCAGTCGTTTGAGGAGGCGGAAGTGAAGTTTTCTTAATTATCATGTGACGGG  
TTCTGGATTTAATGGGGGGAAAAGGGCGGAAAAGGACAAGGATCCAAACTGGCGAATTTGC  
TGATCTTCGCGTCCCTCTCCGCTTTCCGGCCGGCAGCGCTGCCAGGGTATATTTCTTTTTT  
CCGATCCTGCAACAGCCTCTTTAACTGTTTAAATGAGAATGTCCTTGGCTCAGAGAGTACTA  
CTCACCTGGCTTTTACACTACTCTTCTTGATCATGTTGGTGTGAAACTGGATGAGAAAGCA  
CCTTGGAACTGGTTCCTCATATTCATTCCAGTCTGGATATTTGATACTATCCTTCTTGCTCTG  
CTGATTGTGAAAATGGCTGGGCGGTGTAAGTCTGGCTTGACCCTCGACATGGATCACACAA  
TATTAACAAAAAGCCTGGTACCTCATTGCAATGTTACTTAAATTAGCCTTCTGCCTCGCACT  
CTGTGCTAACTGGAACAGTTTACTACCATGAATCTATCCTATGTCTTCATTCTTTATGGGC  
CTTGCTGGCTGGGGCTTTAACAGAACTCGGATATAATGTCTTTTTTGAGAGACTGACTTCT  
AAGTACATCATCTCTTTCTATTGCTGTTCAACAAGTTACCATTAAAGTGTCTGAATCTGTCA  
AGCTTCAAGAATACCAGAGAACTGAGGGAAAATACCAATGTAGTTTTATACTACTTCCATAA  
AACAGGATTGGTGAATCACGGACTTCTAGTCAACCTACAGCTTAATTATTCAGCATTGAGTT  
ATTGAGATCCTTATTATCTCTATGTAATAAAGTTTGTGTTGGACCCAAAAAAGCAAAAC  
ACAAAAAGGGGGCGCAGAAATCAACAGGCGCACACTTACCACACTTTTGAAAGGCCACA  
GGAGACTTAAACGGGCACCAAACTGTTGGACACAN

&gt;511

&gt;512

&gt;513

&gt;514

ACTGAGGCTCGAAATACACCTGGCCTCGAAAGACCCCTGTGTCCCAAAGGAGATTT  
GAGCGGCCCTCTTTATTTTCACTTCATAGCACAGCCAAGTGTAGCTCCGACCATAGAGGAT  
GGGTTTCGTTTTCAAAGTTGTCGTAGAATGTGTCTCGATACATCCGCTCCATCGGATTTCTGAT  
CTGTGGATTCTGTTTCAAGCCTCTTAGATACGCTTGTCCCTGTCCCGCTCTTTTTTGAAGCTC  
TGTGTTTCACTTCTCTGCTTACCCCGCGGACTTGTCTAGAACTGCCAACAGACTCTTTGGAG  
AAAAAGACGTGTGATTTCTTCCAGACTTTAAAGAATACTGTCAGAAGTTCTATCAGGCAGAG  
CTGGAGGAGTTGTCTTTGCTGAAGACACTGAAGAGTGCAGGAAGCATATAAATGACTGGG  
TGGCAGAGAAGACTGAAGGTAAGATTTTCGGAGGT

&gt;515

TTGGAGCTCCCCGCGGTGGCGGCCGGGTTATTCTTTCACTGCCTGTAACGTCCCCC  
TTCTTTGATTGGTCAACGCTCTATTTGAAAAGCCCGCCAAGGGCTGCAATTTGCCAGATAGT  
CTCATCCGGGTTGTTTTTGAAGAGGTTCTCCCGGAATGGAAATGACCGTTATCTGCAGGAG  
TGCATCGGACTCTGGCGCCAAGAGCTGGAAGCTGTGAATTAACCGTCCCTCTTACTGCAGTT  
GTACCTCGGCCGCGACACGTCGAGCGGCCGCCCGGGCAGGTANNNNNNNNNNNNNNNNN  
NNNNNNNNNCACTAGAGGCATCTCAGGTGCTGCCCATGGGCCACACTCTTAGAGGGGGA  
TGAGCTCTTAAAGGAGAAACATCAGCAAAGTAATCATCATTGTTTAAACTGAGTATCGAGT  
CTCTGGTTCTTTGACCACTTTCTTCTTTCTTTCTCTCTGGGAGCCCAAGGTCTACTTTGTGT  
GTCTTGGTGATCATTCCGGTGGGCGAAATTTCCCGCCTCCACGTGAGAGCCAGCTCCGCC  
GTCCCCGCGTACCTCGACCGCCACCGCGGGGAGCTCCA

&gt;516

&gt;517

NNGGGATTTCAGCATCACTTCCAGAGATGTAACAATAGGTGGCTCAGCTCCGATCTAT  
GTGAAAAACATTCTCCCCCGGGGGCGGCCATTGAGGATGGCCGACTTAAGGCAGGAGAC  
AGACTTATAGAGGTAAATGGAGTAGATTTAGTGGGCAAATCCCAAGAGGAAGTTGTTTCGCT  
GTTGAGAAGCACCAAGATGGAAGGAACTGTGAGCCTTCTGGTCTTTGCCAGGAAGACGCC  
TTCCACCCAAGGGAAGTGAATGCAGAGCCAAGCCAGATGCAGATTCCAAAAGAAACGAAAG  
CAGAAGATGAGGATATTGTTCTTACACCTGATGGCACCAGGGAATTTCTGACATTTGAAGTC  
CCACTTAATGATTGAGGATCTGCAGGCCCTTGGTGTGAGTGTCAAAGGTAACCGGTCAAAGA  
GAOCCACGCAGATTTGGGAATCTTTGTCAAGTCCATTATTAATGGAGGAGCAGCATCTAAG  
ATGGAAGGCTTCGGGTGAATGATCAACTGATGAGCAATAATGGAGAATCCCTGTTGGGCAA  
GACAAACCAAGATGCCATGGAAACCCTAAGAAGGTCTATGTCTACTGAAGGCAATAAACGAG  
GAATGATCCAGCTTATTGTTGCAAGGAGAATAAGCAAGTGAATGAGCTGAAGTCACCTGGG  
AGCCCCCTGGACCTGAGCTGCCATTGAAACAGCGTTGGATGATAGAGAACGAAGAATTT

Table 4

CCCATTCCCTCTACAGTGGGATTGAGGGGCTTGATGAATCGCCCAGCAGAAATGCTGCCCT  
CAGTAGGATAATGGGTAAATACCAGCTGTCCCCTACAGTGAATATGCCCCAAGATGACACTG  
TCATTATAGAAGATGACAGGTTGCCAGTGCTTCTCCACATCTCTGACCAGTCTCTTCCA  
GCTCCCATGATGATGTGGGGTTTGTGACGGCAGATGCTGGTACTTGGGCCAAGGCTGCAAT  
CAGTGATTACGCCGACTGCTCTTTGAGTCCAGATGTTGATCCAGTTCCTTGCTTTTCAACGAG  
AAGGATTTGGACGTCAGAGTATGTCAGAAAAACGCACAAAGCAATTTTCAGATGCCAGTCAA  
TTGGATTTCTGTTAAACACGAAAAATCAAAAAGCATGGATTTAGGTATAGCTGACGAGACTAA  
CTCAATACAGTGGATGACCAGAAAGCAGGTTCTCCAGCAGAGATGTGGGTCTTCCCTGG  
GTCTGAAGAAGTCAAGCTCGTTGGAGAGTCTGCAGACCGCAGTTGCCGAGGTGACTTTGAA  
TGGGGATATTCCTTTCCATCGTCCACGGCCGCGGATAATCAGAGGCAGGGGATGCAATGAG  
AGCTTCAGAGCTGCCATCGACAAATCTTATGATAAACC CGCGGTAGATGATGATGATGAAGG  
CATGGAGACCTTGGAAGAAGACACAGAAGAAAGTTCAAGATCAGGGAGAGAGTCTGTATCC  
ACAGCCAGTGATCAGCCTTCCCCTCTCTGGAGAGACAAATGAATGGAAACCAAGAGAAAG  
GTGATAAGACTGATAGAAAAAAGGATAAACTGGAAAAAGAAAAGAAGAAAGATAGAGATAAG  
GAGAAGGATAAAATGAAAGCCAAGAAGGGAATGCTGAAGGGCTTGGGAGACATGTTAGCC  
TTGCCAACTGAAGCCCGAGAAGAGATGAACAACAAAGCGATTCAAAACATGTCTTGAACAG  
CACATATTGCACAGTTGTTGTTTTTTTTTAAACAAACAATAAATTTACTTTTAAATGAAAAA  
AAAAAGGGCGGCCGCGN

&gt;518

&gt;519

&gt;520

&gt;521

NNNNNCCCCGAGGGTTCCGATTAAGTGCACGGCACCTCGACCCCCAAAAA ACTTGA  
TTAGGGTGATGGTTACGTAGTGGGCCATCGCCCTGATAGACGGTCCGCTTTAACGTTGA  
GTCCACGTTCTTTAATAGTGGACTCTTGTTCCAACTGGAACAACACTCAACCCTATCTCG  
TCNATTCTTTGATTTATAAGGGATTTGCCGATTCGGCCTATTGGTTAAAAAATGAGCTGAT  
TTAACAAAAATTTAACGCGAATTTTAAACAAATATTAACGCTTACAATTTCCATTCCGCAATCA  
GGCTGCGCAACTGTTGGGAAGGGCGATCGGTGCGGGCCTCTTCGCTATTACGCCAGCTGG  
CGAAAGGGGGATGTGCTGCAAGGCGATTAAAGTTGGGTAACGCCAGGGTTTCCCAGTACG  
ACGTTGTAAACGACGGCCAGTGAATTGTAATCAGACTCACTATAGGGCGAATTGGCCAAGT  
GAGCTCGAATTGCGGCCGCATGCATAAGCTTGCTCGAGTCTAAAGTCGACTGGGCCGAGGC  
GGCCGACATGTTTTTTTTTTCGGGCCGCTTTTTTTTTTTTTTTTTTTTTTTCGAAGCGACGCT  
CAGACAGGCGTAGCCCCGGGAGGAACCCGGGGCCGCAAGTGCGTTTCAAGTGTCGATGAT  
CAATGTGTCATGCAATTCACATTAATCTCGCAGCTAGCTGCGTTCTTCATCGACGCACGAG  
CCGAGTGATCCACCGCTAAGAGTCCCCCTTCTGTCGTTCTTCGCGAGCCGTACACACGCG  
GGGCGTCCCGAGACNAAGGGNTTCGATGGACAAGAGACCCAAGCATAGAANNNNN

&gt;522

&gt;523

NACGCGGGGAAGTGAGAGGAACCGAGAGTAAGAGAAAGAAAGAAAGTGAGGGGATG  
TAACTCGAATAAATTTCAAAGTGCCCTCCGAGGGATGCAACGGGCAAAAACTGAACTGTTCA  
GGCTTCAGATTGTAAGTACGATCTGAGGAAAAATGAGGTTTGTGTGATTTTGCTAAAATGCA  
TCACCAACAGCGAATGGCTGCCTTAGGGACGGACAAAGAGCTGAGTGATTTACTGGATTTCA  
GTGCGATGTTTTACCTCCTGTGAGCAGTGGGAAAAATGGACCAACTTCTTTGGCAAGTGGA  
CATTTTACTGGCTCAAATGTAGAAGACAGAAGTAGCTCAGGGTCTGGGGGAATGGAGGAC  
ATCCAAGCCCGTCCAGGAACATGGAGATGGGACTCCCTATGACCACATGACCAGCAGGGA  
CCTTGGGTACATGACAATCTCTCTCCACCTTTTGTCAATTCAGAAATACAAAGTAAACAGA  
AAGGGGCTCATACTCATCTTATGGGAGAGAAATCAAACCTTACAGGGTTGCCACCAGGAATTGG  
CGTGATTCCTCACAGACACAAAGATTTCTCTGCTGAGTAAGCGTGAGGCCCTTAACTTTGT  
GAAAGCATCATCCAGACCGTGTGAGTCTGTCTGTGTATGTGCAGAACACAGACCTCTTTTC  
TCCGTTTGTGGGGAATACTTCCCTCGGGTGAACTGAAGTTAATTTTTTTTTTTTCCAAACA  
CAAGCAGAGTCTCCTTGGAGGTGACATGGATATGGGCAACCCAGGAACCTTTTCGCCACCC  
AAACCTGGTTCCAGTACTATCAGTATTCTAGCAATAATCCCCGAAGGAGGCCTCTTCACAG  
TAGTGCCATGGAGGTACAGACAAAGAAAGTTTCGAAAAGTTCTCCAGGTTTGCCATCTTCAG  
TCTATGCTCCATCAGCAAGCACTGCCGACTACAATAGGGAGTCCGACGCTATCCTTCCCTCC  
AAACAGCAACCCAGCACTTTCCTAGCTCCTTTCATGCAAGATGGCCATCACAGCAGTGA  
CCCTTGGAGCTCCTCCAGTGGGATGAATCAGCCTGGCTATGCAGGAATGTTGGGCAACTCT

Table 4

TCTCATATTCCACAGTCCAGCAGCTACTGTAGCCTGCATCCACATGAACGTTTGAGCTATCC  
ATCACACTCCTCAGCAGACATCAATTCAGTCTTCCTTCCGATGTCCACTTTCCATCGGAGT  
GGTACAAACCATTACAGCACCTCTTCCTGTACGCCTTCTGGCAACGGGACAGACATATAATG  
GCAAATAGAGGAAGCGGGGCGAGCCGGCAGCTCCCAGACTGGAGATGCTCTGGGGAAAGCA  
CTTGCTTCGCAAAGCCGAATTGAAGATCGTTTAGAAAGACTGGATGATGCTATTTCATGTTCTC  
CGGAACCATGCAGTGGGCCCCATCCACAGCTATGCCTGGTGGTCATGGGGACATGCATGGAA  
TCATTGGACCTTCTCATAATGGAGCCATGGGTGGTCTGGGCTCAGGGTATGGAACCGGCCT  
TCTTTCAGCCAACAGACATTCATCTCATGGTGGGGACCCATCGTGAAGATGGCGTGGCCCTG  
AGAGGCAGCCATTCTCTTCTGCCAAACAGGTTCCGGTTCCACAGCTTCTGTCCAGTCTGC  
GACTTCCCCTGACCTGAACCCACCCAGGACCCCTACAGAGGCATGCCACCAGGACTACAG  
GGGCAGAGTGTCTCCTCTGGCAGCTCTGAGATCAAATCCGATNACGAGGGTGTGAGAACC  
TGCAAGACACGAAATCTTCGGAGGACAAGAAATTAGATGACGACAAGNAGGATATCAAATCA  
ATTACTAGGTCAAGNTCTAGCAATAATGACGATGAGGACCCCTCCCCGCTTCCCTGCCTCA  
CCCTCAATAAATAAATTAATTGTTGTCANN

&gt;524

TTGGAGCTCCACGCGGTGGCGGCCGAGGTACGCGGGGCTCTTGAGGAGTGAGACT  
GCAGGAGATGTGGGCCGTGCCAAAGTGATGGCTGACACTGTGGCTCAGTTCATCAAGAGGA  
CCATCTTGAAGATCCCCATGAGTGAAGTGACAACAATCCTGAAGGCCTGGGATTTTTGTCT  
GAAAATCAACTGCAGACTGTAAATTTCCGACAGAGAAAGGAATCTGTAGTTGACACTTGAT  
CCATCTGTGTGAGGAAAAGCGTGCAAGTATCAGTGATGCTGCCCTGTTAGACATCATTTGTA  
AGTGCTGGAGTGCAGTAACGCCATCTCAGCTCACCGCGACCTCTGCCTCCTGGATTCAAGT  
GATTCTCAAACCTCAGCCTCCCGAGTAGCTGGGACTATAGCAGTGCACCACCATATATGCAA  
TTTCATCAGCACCAGAAAGTTTGGGATGTTTTTCAGATGAGTAAAGGGCCAGGTGAAGATGT  
TGACCTTTTTGATATGAAACAATTTAAAAATTCGTTCAAGAAAATTCTTCAGAGAGCATTAAAA  
AATGTGACAGTCACTTCAGAGAACTGAGGAGAATGCAGTCTGGATTGCAATTGCCTGGG  
GAACACAGTACACAAAGCCAAACCAGTACAAACCTACCTACGTGGTGTACTACTCCCAGACT  
CCGTACGCCTTCACGTCTCCTCCATGCTGAGGCGCAATACACCGCTTCTGGGTCAGGCGC  
TGACAATTGCTAGCAAACACCATCAGATTGTGAAAATGGACCTGAGAAGTCGGTATCTGGAC  
TCTCTTAAGGCTATTGTTTTATAAACAGTATAATCAGACCTTTGAAACTCACAACTCTACGAC  
CTCTACAGGAAAGAAGCCTGGACTAGATATAAATATGGATTCAAGGATCATTGAAAACAT  
AATAGAAAAAGAGAGAGTCCAAACGAATAACTCAAGAACACATTTGGAGATTATCCTCAACCA  
CAACTAGGAATTGCACAATATAAGCTTGAAACGAAATTCAAAAGTGGTTGAAATGGGAGCAT  
CTTGGCTGAGAGGAAAGAACCCCTCCGATGCCTAATAAAGTTCTCTAGCCCACATCTTCTGG  
AAGCATTGAAATCCTTAGCACCAGCGGGTATTGCAGATGCTCCACTTTCTCCACTGCTCACT  
TGCATACCCAACAAGAGAATGAATTATTTTAAAGATTAGAGATAAATAAGACGTGCGTGGTTT  
CTTAAGCACAGCTCCTCCTTCTTGATATTGCACATGCACTTCAGTTCATGGCTAGCTGTATAG  
CTTCCGTCTGTAACTTGTATTTTCAAGAATCCTTGGTATTGAATTTTGAAGATGCTCACATA  
ATTGTTGGGACTGATTCACTCCTCCACGATATGCCTCCTCTCTCTGATATCTGCTAACTGTAG  
CCGTGTGGCATTGAGATGACAGGACATATTTATATATGGCCACACTTGACTTGAGTGCTG  
AATGCTCTGAAAGCAAGCATATGGCACAGCGCTCAAGAACTGGCGTGGGGGCCCTTACCATG  
GGGACCGCCAGTCGGGAAGGGCGGGCAAGGGGGTCCCGGATAGAGCCCAACGCTGGA  
CGGGAAAGCACCGGGAAACCAACCGTGAACCAAGGCCTCCACGGGGGGCGCC  
CCGAGGGGGGAGAGGGCGTGGGGAACAACAGGTGGGACACCCACACAAGACCCACAAATC  
AAGACAACACGGCGAGAACAACAAGNN

&gt;525

&gt;526

&gt;527

NNATGTGGTTACGACCCACTGTATTGAGGTGACGCGATCCATAGGCTGTGGTGT  
GTTTTGCTGATCCACACAAACGTTGGGGCACTGTCTATTTCATGTGTTCAAGCTGAAGGCTC  
GTTCTCGGTTGTCAATTTACAGTGTTTTCTACGGGGTTACATTACAGGAATGTTGTAGCGAC  
GTTTAGCCCGTGGAGTATCAACGTCTTGAGACTCCGTGTGAGACTCCCTGGTTTGTCCACA  
ACAGTGTGTTTTAGATTCCGTACCTTTGATTAAGGAACACATCATGCCGTGAAGCCAATTTA  
TATTCTGCAATTCGGTAGTGATGTAATGTAFTCTGCCGTCTCGTAGTGTGAAGCCATGCTTG  
GCACATCCAGTTCTTTGATGTCTGGCTGCCCTTCTCGGGCCAACTGTCTTGTGGAATTCGTT  
GCTCCAGAGATAGCTTGAAGTGCAGATCCCGCACAGCATTGCACTGAGCTGTCGTTGTATC  
TGAGCCTGGACATGGCGGCCGAGGTACTCACAGTCACGCAAATTCACAGTCTGCGTGCACG

Table 4

GCTCTCCATTCTTCTTCTTGGCTTTACAGGTTCCAGGTCAAGAGCTTCACCCATAATTAAGA  
CCTTCTGAGGATGATCGATAGATAAACACACCTCCTCTGAACCATCCTTGGGCTTCATGGGG  
TTGGCATTGAGGATCCCTACGACAGTCCCCTGCTCCGCTCTCCAGAGCGCTTTGTGAACCTC  
TCCAAATAAGAACAAGGACACACATTGTGTCAGGTACGAAGATCATTAGTTTCCATATGCT  
GAAGGTTTTTCCACTATTACACTCTGTGGCGTAACCTTCTTCAATATAACCCCAAATGTCAC  
CCAATCTATTTCTTCCAGCTTCTCTCTGGCCATCTTTTCTTGATCTGAGACAGTCTGATCAG  
TTTTCGGCCCGGTCATGTGCTTCTGTTTCTCTGGAGGATACTCGAGCCCGCCTCGAGC  
CGCAGACCAGGAGAAGGCTTCCACACAGATGGCGATTGAGTCGTTTCTCACAAGAACTTTC  
ACTCGGGGTCCACCACATATTTGACCTCTAGTTATCCCACTAGGTTTGTTCGAGAAATCGT  
CTGTAGGGGTTGGGAGGTTGCACCTTGTCTCCTTGAAGATGAGCTTTTGGGATCTGGAGGT  
GAAGCCTTTGGTGTTCGAGCCACCCTCTTGGTCTTGGTAGCGCAGGGACATCAAGCTCCG  
CAGAAAAGCATGTTGACTCCTGAATTCTCTGAACCTCTCCTCTCCTTAAGAGGTGGCCGGGGA  
GACTTCTCAGGGGATTTTTGCAGACGGGCTGGGCTTGTCTGTCTGTTAATTGTTGTTACTTTT  
AGCTGCTCTTGTGAAGGCCTTCATTTGCTCTTGCAAATTCCTAATTCCTCTTGCAACTCTTCAT  
TCGTTTTCTCTCGCCTGGGGGAGGAGCAGGAGGACCCTATTTTTCAGTTGACTGTGATGC  
GGGAACCTTCTTCTCATCTGTTAAGTCTCCATATCTCCAAAGAGAGTGGCCAGATTTTCTT  
TTCGTCTCTTGTCTCTCCTGTTTCTCCATCATCAGCCTCTTCTGTATAAGATTACCGTCGCC  
GTCGGCATCAAAGAGCTCATCAATGCGTCGGGCTCGCCATTTTCCCGCGTCAAGAAGTTAT  
TTTCTTCTGAATTACAATCCAAGGCTGACTCATTTTCTTCCAGCAGTGGGTCAGCAGAGACA  
GATTGTCTTCTCCTCATCCATGCTGTCAAGAGGACAGTTGTGACAGGAACTTCGAAGGAG  
GCTCAGATGCCAGATGAGCAATGTAGAATCTTGGCCGATGCCGGGACGCCTTCTTCGTTT  
ACAGCTGAACCCGCCAAAATCGGACNN

&gt;528

&gt;529

&gt;530

NAGTCGACCCACGCGTCCGATTTTCATCCTGTTGCCCCTCCGAAATCTATTGCTTTAG  
ATTCAGAGCCCAAGCCTCTCATTGATGTGAGTGTGTCATCACAAGATTTAATGAGTACAGTAAAG  
TCTTACAGTTCAAGTATTTTATGGTCTCATTGAGGAAATGGCCTTAAAAATTGATCAAGGGT  
TTCTAGGAGCTATTATTGCACTGTTTACCCCAACAACAGACCCTGAAGCTGAAAGAAGACGG  
ACAAAGTTAATCCAGCAAGATATTGATGCTCTAAATGCAGAATTAATGGAGACTTCAATGACT  
GATATGTCAATTCTTAGTTTCTTTGAACATTTCCATATTTCTCCTGTGAAGTTGCATTTGAGTT  
TGTCTTTGGGTTCCGGAGGTGAAGAATCAGACAAAGAAAAACAGGAAATGTTTGCAGTTTAT  
TCTGTCAACTTGCTGTTGAAAAGCATAGGTGCTACTCTGACTGATGTGGATGACCTTATATTC  
AAACTTGCTTATTATGAAATTCGATATCAGTTCTACAAGAGAGATCAGCTTATATGGAGTGT  
GTTAGGCATTACAGTGAACAGTTCTTGAACAGATGTATGTCCTTGTATTGGGTTAGATGTA  
CTTGGAACCCATTTGGATTAATTAGAGGTCTGTCTGAAGGAGTTGAAGCTTTATTCTATGAA  
CCCTTCCAGGGTGCTGTTCAAGGCCCTGAAGAATTTGCAGAGGGGTTAGTGATTGGAGTGA  
GAAGCCTCTTTGGACACACAGTAGGTGGTGCAGCAGGAGTTGTATCTCGAATCACCGGTTT  
TGTTGGGAAAGGTTTGGCAGCAATTACAATTGGACAAGGAATATCAGCAAAAAAGAGAAG  
AGTTGAGTCGACAGCCAGAGATTTTGGAGCAGCCTGGCCAGAGGAGGAAAGGGCTTTCT  
GCGAGGAGTTGTTGGTGGAGTGAAGTGAATAATAACAAAACCTGTGGAAGGTGCCAAAAAG  
GAAGGAGCTGCTGGATTCTTTAAAGGAATTGAAAAGGGCTTGTGGGTGCTGTGGCCCGTC  
CAACTGGTGAATCGTAGATATGGCCAGTAGTACCTTCCAAGGCATTGAGAGGGCAGCAGA  
ATCAACTGAGGAAGTATCTAGCCTCCGTCCCCCTCGCCTGATCCATGAAGATGGCATCATTC  
GTCCTTATGACAGACAGGAATCTGAGGGCTCTGACTTACTTGAGAATCATATCAAAAAGTTG  
GAAGGAGAGACTTACCGATACCACTGTGCTATTCTGGAAGCAAGAAGACAATCCTTATGGT  
TACAAATAGGCGAGTGTTGTGTATAAAGGAAGTTGAAATCCTGGGCCTTATGTGTGTAGACT  
GGCAATGTCCATTTGAAGATTTTGTATTTCTCCTAGTGTGAGTGAATGTGCTAAAAATTT  
CAGTTAAGGAACAGGGTCTGTTCCAAAAAAGACAGTGCCAATCAAGGCTGTGTTTCAAAAA  
GTTTACCTGAAGGACACCGCCACAGCAGAGAGCATGTAATGCCATTGAGGATGCACAGT  
CAACGAGACAGCAGCAAAAATTGATGAAGCAGTCATCAGTGAGACTTCTCAGACCCCAATTG  
CCATCTTAATCACAGACCTCAGGGGCTCCAACAGGGAGAAAAACAATCACTGGTCTTGTCT  
ATAAGTCACTCTGCTTTATCTTGTAAAGACAATTTTCAAGCAATCCTTTAGTTTTAGTTTTCT  
TGAATAGCTAGTATTGGGTTTTCTAGTTTTTTCACCTTTTACTCTAATTTTGTAAACCA  
GGTATATGCTAGCAGTCCACTTCTACGCCAACCACTTGGGTGAGACCCTTGAAGAAACG  
TCACTTCAAACCTCAGAATGAAATTTTCAATATTAATAAATTTGTGAAGCAAGGTCAATAGGCT

Table 4

TATATTTAATTAAGGCCTTACTGAAGAATAAGAAATGAGCTTAGAATGACTAGTGTCTTTGAA  
AGGTTTTTTTTATTTTTGTTTTTTGGGGTTTTTTTTTTTTTTTTGAGACCGAGTCTTGCTCTGTCG  
CCCAGGCTGGAATGCAGTGGTGCGATCTTGGCTCACTGCAATCTCTGCCTCTCGGGTTCAA  
GCGGTTCTACTGCCTCAGCCTCCTGAGTAGCTAGGATTACAGGTGTGTGCCACCACGCCTG  
GGTAATTTTTTTTTTTTTGTATTTTAGTAGAGATGAGTTTCACCATGTTGGTCAGTCTAGTC  
TCGAACCTCTGACCTTGTGATCCGCATGCCTCAGCCTCCCAAAGTGCTGGGATTACAGGCAT  
GAGCCACCACGGCCCGCCAAAAGGCTTTAACCCATGAACAAATGTTGGATCCTGACATTTTG  
TTTAAGAGTGATTTGTTCAATAATTGAAGTGAAGTTAACATTCTTGGTAAACCAGGTAATTGAAT  
GAAGAAAGGTCACTAAAGGGAGAAATGACATGTTTTCTATTTTCTTTTCATGAAAACACTGTT  
TTTCCCCCTAATAAAGCATATTTTACTTTGGTGCTTATTTTCCCTCCTTGCACTAATAAAAA  
AATCTGGACAATCAAACCTTAAAATAGCTACACTCTGCCCTCTGTAATGTAGCATTCAAAAA  
ATTTGGAAGTATTTACATCCTCTTTCAAGTAGAGCTTATATGACACAATTATTATTTGCTGATA  
CATGAAAAACTGCACCTTTAAGTTTCTCAAGACTCTGAAATATGTAATAATTCAATATTTTATAT  
TCCCAGAAATGTTTCTTACAGGTTGAAAGTCTTTTAAGGGCATCACAAATTAACATTTACTCC  
TAATGCACGCCTAGAATGTATTTTAAATACTTACTAAGAAGAATGAAAATCTTTGGTTGTTTT  
ATATATAAATAAGGCATATATAATGACACTGTGTTCTGTGAGGGAGCAGGCCCTGTGAGAAT  
CAATTGAGGACAGTATTTTTTTTTGTCTTTCTCCATCCTTGATCAGAGATAAACTATTAAC  
TTTAAAAAATACTCAAAAATATGTAAGTTTTTGGTTGAACCTTTAGATTTGCTCATAATGTTTA  
ACATAACAACATTTATTTCAAATCACTGAATTCATGGAGATGTGGACACGCTTGGTTTGCTCT  
ATTTTTGTTTATGTGTGATAGTGGTTCTGTCACTCATTCATGTTTTTAAAGGCCTGGTCATA  
AACTTTAAATTTTACTAGTGTACTTAAATGTATATTCTAAAAAGAGAATGCAGTAACTAATGC  
CCTAAATGTTTGATCTCTGTTTGTCACTTTTCAAAATTAATTTTTCTGTAAAGTATAATA  
TATAAAACTTCTTGCTTAAATTTGAATTTCTATATTAGTGGTTAATTGCAGTTTATTAAAGGAT  
CATTATCAGTAATTTTATAGCAACTGTTCTAGTGTGTTTTGTGTTTTTAAACAGAATTAGGAAT  
TGAGATATCTGATTATTTTTTCAATGAATCACAGCTGTTGACAATGTCCCATATATTTAAGA  
AATTATATCATACTGATACTATTTGTAACATTTTGATTTGATTTAATCTCCAGGGACAGAAATA  
ATTCATTGGTAAAGTGAATAATGCGTTTTTAAAAATGCTTTGAGAGGTAATTAATTAATGC  
GAGAGAAATAAAACATTTGGCACATTTGTTTACAGGTGAAAAAAGGAGGAGGAGGAGGAGGAGG  
GNCGGCCCGCTNTAGAGGATCCAAGCTTACNTACGCGNGCANNNNNNNNNNNNNNNNNNNN  
NNNNNNNNNNNNNNNNNNNNGGGGGGGCCCTTAAATTTTTTTAAAAAAAACCTCCCACAC  
CTCCCTGTGCCCNNNNNNNNNNNNNNNNN

&gt;531

&gt;532

NN  
TTTTTATTCAATTTGTGAAGGACAGTTTTAGAACAATAATGTTAGTAACACTCTTAGAACACTGG  
TTTGTTCAATTTGACATTTTATCTGCACCAATTTTTATTACAAAAATCAAAAAAGTAAAAATTCAT  
TACAATATTTGCAGAGTATAACCACTAGTTGCCTAGACAAAAGCTAATTTCTACAAAAATCAAAA  
ACTTAATGCAGTTTTTATTAAGAGAGTCAAAATTTCTCTCAGTTAACTGGATATACATAGTGGTAT  
ATATCTTAAAGCAGAAAACCCCAAAAAACAAGGAAAAAGAAAAATACATGTCAACAG  
TCAGTTAAATATTTTGACCTGACAGTTTCTACAAATAGTGATTTTCACTACATATAAAGGAATC  
TGTTACATGTGGTAAACTTCCAGAGACCAAGTAGGAAGTGTGGAATAAAACAATAAATCCA  
AACGCAGCCCCAGGCTGGGCCTGTTTTCCATGAAGCCCAAGGCAGTGATCTTCATCATTA  
GGAGGGACCACTGTGTCCACAACCTAAACCTTCAACCATGAGTGTGATCTGCAAGCTTCATT  
GAAAAAGACAAACATTCTCTTCTTACACAAATCACTGCAGAAATCTTTGTAAGGCTGTACCT  
TGCATAGGGAAATAGCTGTGTTCCGTCAAATTTCTACAGAAAAGAGTGGAAGCAAGCCTTTTT  
AAAATGATGCCCATGTGCAAGAGATAAATTACCAGGCACCTGATTTACCACCCCAATTTATC  
TTGATCATATAATCTTTTAAACAAAAAGAAAAATGGCAATATCTGGTGACAGTATTAAGGACA  
ATGTTGAGATTGGCATCAGAAAAACTCCAAAAGTGACCTTATAAAAAAGGACACCTCACTGTA  
GAAACATCTATGCACTTAGTAAGCCCTACTCATGCACAAACAAGCAGTTGCTGGGAACTTGT  
CGAAGTTTACTTTTTAGAAAGTTGAAGTATATAAAAAAGTACAAGTTGTGACATTCGTTCAA  
GTTGCTGCTACATGGGTATTCTGAGCTGGCTACCAGGAAGGACTCCTGCGTTTCCGAGAGC  
CAGGTGAGCGTCTCTAGGAGCGGTGGTGCAGTGCATGGTGCCAGCAGCGGCACTGTCGT  
ACCGTCCCTGCACCTTACGGACTTGAAGTGTGACCTGACCACTGTTGAGTTCTGGGATGCTT  
TCAGCAGTGTCCCAAAACCGTGGTAGTGTCCATAGTACAGGTTATCCCAATGTCTTCCAC  
CCAGGAAGGCCTACTGGCTATGCAGCTACTTGGACTCCCGTTCAGGTGCAGAGAACCAC  
AACTCAGGGTTAGCTCTCAGGGTCTTCTCTGGCTCCTCAGTCCCACTAATGCAGAGAGAACC



Table 4

CTGGCTACTCGGAAACGGCTGTCCTGGGGCTAATCCACTGCTAATTCGGTTAGTTCCTGTCA  
AGCACTGGCCATTCTGCTTTCCATCCCCTGAGCGGGGTCGTGGAGGGGAAGTCCAAATG  
TCCATTGATGACACATCCATTGTCAATGTATTGATACGGAGCTACTGTTTTTCATATCTGTT  
ACAACAGCAAACCTCCCTATCAACGTGCATTTTGTGAGCATCGTCTTCTGTGTCGCCATTCTG  
GAGTGGCACGGCAGAATCCAAGCTTTGAGCTTCAGTTCTAGCTTTCTTTACTCCAAAGTCTT  
CTGAGTCCTCCAAGCATCTCTTTGATTTGTTCCACACTAATATGATTAGGAAATACATTCT  
GATGACCCCCATTTAAGATGCCATTGTTATAGAAATGGTTTCAGATGACAATTCTGGAGGTTCA  
AGAGAGACTGGGCACACTCTTGAAACCCTGGGTTTGTGCAATGTCTGCTGCTGTGTCAGGCC  
ACTGGCATTCTCAGGTGACGTGAGCCCCATTGCCACAAGGGCACTGATGCATTCTAGG  
CTCCCAGAGCGAGCTGCCTTGTGAATGGGAGTTTCACCCTCACAATCCGGTTTGTTAATGTT  
GGCTCCTGCTTGAATCAGCCAGACCAGGCACTGAGGATGTCCCCAAAGGCTGCAATGTGG  
GCTGGCGTCTGCGCGTACCGTGTGGTGGAGACGTTGAGTGTGGCTCCCGCTCTCACCACCT  
GCACTAAGCACTCCAACCTTGCCGAAATGCGCGGCCAGTGCACGGGCGTCCAGCCATAGAA  
GGAGTCTCTCAGAGGCCAGGTGGGCGTGGGGTGTCTGCTGCAGCAGCGAGCAGAGCGTGG  
CCAGGTCCCCGTGCGCGGACGGCGCGGTGCAGCGGGAAACGGAGCGAGAGAGAGCTCCTCG  
CTGGAGAAGCCCGCCTCTACGCCCGCGCCCGCTCCCGCCGCGGACATGGTCCGTCACCGG  
AGAGCGCGGGGCTCGCTGGCCTAGAGGACGCGTCCGGGAGGACTCGAGAAGCCCGCGC  
GCAGCACAAGGAACGAGACTAGCGCGCGGTGCGTCCACAGGCTGCCGAGCGGAGC  
GCGNNN

&gt;533

&gt;534

NNNNGCTCAACCTTGAAGACCCACAGCGGCCACACACAGTCATTCAAACAGCCGT  
CCTGTACTCACATCTCTGCAGATGAAAAAGCAGCTGAAAGGAGTCGAAAGGCTCCACCAATT  
CCTCTAAAACGAAGCCTGATTACTGGAGTGACAAACTACAGAAAGAAGCAGAAGCGTTTGC  
TTATTATCGCCGGACACACACTGCCAATGAGCGGCGCGCGCTGGTGAATGAGGGATCTC  
TTTGAGAAATTAAGATCACATTGGGATTACTTCATTCTTCCAAGGTTTCCAAAGTCTCATT  
TACTCGAGCCTTCAGTGAAATTCAGGGACTAACAGATCAGGCAGACAAATTGATAGGACAG  
AAAAATCTCCTGACTCGAAAACGGAATATTCTGATACGGAAAGTATCGTCTCTTTCAGGTAAG  
ACAGAAGAAGTGGTCTGAAGAAGCTAGAGTATATTTATGCAAAACAGCAAGCACTAGAGGC  
ACGAAAAAATGAGGGAACATAAATACGN

&gt;535

&gt;536

&gt;537

&gt;538

NCGGGCCGGGGGTGAATCGGCCGAGGGAGGGACTGGCAGTCCCCTCCTCCGCGC  
CGGCCCAACCCTGTCGCTGCCGCGCGCTCCGAGTCCCATTCCCGAGCTGCCGCTGTTG  
TCGCTCGCTCAGCGTCTCCCTCTCGGCCGCCCTCTCCTCGGGACGATGGCGCGCGGTGGC  
CGCGGCCCGCGCCTGGGGTTAGCCCTGGGGCTGCTGCTGGCGCTGGTGGTGGCGCCGCG  
GGTCTGCGGGCCAAGCCACGGTGCGCAAAGAGCGCGTGGTGGCGCCGACTCGGAGC  
TGGGCGAGCGGCCCTGAGGACAACCAAGAGCTTCCAGTACGACCACGAGGCCCTTCTGG  
GCAAGGAGGACTCCAAGACCTTCGACCAGCTCACCCCGGACGAGAGCAAGGAGAGGCTAG  
GGAAGATTGTTGATCGAATCGACAATGATGGGGATGGCTTTGTCACTACTGAGGAGCTGAAA  
ACCTGGATCAAACGGGTGCAGAAAAGATACATCTTTGATAATGTGCCAAAGTCTGGAAGGA  
TTATGATAGGGACAAGGATGATAAAATTTCTGGGAAGAATACAAACAAGCCACCTATGGT  
ACTACCTAGGAAACCCCGCAGAGTTTCATGATTCTTCAGATCATCACACCTTTAAAAAGATGC  
TGCCACGTGATGAGAGAAGATTCAAAGCTGCAGACCTCAATGGTGACCTGACAGCTACTCG  
GGAGGAGTTCACTGCCTTTCTGCATCCTGAAGAGTTTGAACATATGAAGGAAATTGTGGTTT  
TGGAACCCCTGGAGGACATCGACAAGAACGGGATGGGTTTGTGGATCAGGATGAGTATAT  
TGCGGATATGTTTTCCCATGAGGAGAATGGCCCTGAGCCAGACTGGGTTTTATCAGAACGG  
GAGCAGTTTAACGAATTCGGGATCTGAACAAGGACGGGAAGTTAGACAAAGATGAGATTC  
GCCACTGGATCCTCCCTCAAGATTATGATCATGCACAGGCTGAGGCCAGGCATCTGGTATAT  
GAATCAGACAAAAACAAGGATGAGAAGCTAACTAAAGAGGAAATATTGGAGAAGTGAACAT  
GTTTGTGGGAAGCCAAGCTACCAATTACGGGGAAGATCTCAAAAAAATCATGATGAGCTTT  
GATAGACACTCACCAGAATATGGCAGACTGTATAGGCATTCTGTTATTGTCTTGATTGTTG  
CTACAATTGTCTAATTTACAGCAGTTGTGATCCCAAAAAAGCAAGTTTATACCTCAGATTGG  
GGTATAAAATTTGTTTTCTGCTCAGTATTTACTGGAAATGGACATCACTAGTCTTTCAGTAA

Table 4

GATTTCTCTCAAAACACGTGAAAACCTTGGTAAATTGCAATTCCTTCTGGGGATATATTGGTA  
CAACATGACTTAAACCTTTTTTTTTCTATTAACCTTAAAGGGGAACAAACCTTGAAAAAGCC  
CTGTTCTTCAGAAGGTGAGTGGGTTGAGGGAGGCAGTAATATGAAGTGACTGCTGTGTATTT  
TAACTACCAGATTTTTTATATTTGCCACTGTTAAATAGTTGGAAAGGGGAAATTCCTGATTAAGC  
GAAAGTGGTATCATCCTAGGTAAGCTTATTTGAGAACAAGTCTAATATTTGAGATTCTTTCTTT  
TCGACTTTATACTCTGAGTTATTACTTACTGTAAGTGGTGTATATGAAACCTCCATGCATTTTC  
CAGTATGGATCTGCTAATATGCACAGTAAATCCATGTCTTTGTTTGTTTTCTATTA AAAAGCA  
ATCAAGAAAGATAATGTGAAAAAGAAAGGAATTTAGAGGTAGGGAAAAGATGAATGTCAGAC  
ATTTGAAGAACTATAGTAAAATGATAAACACTAAATATACTTGAGAAAACCTTTCTTAATATGCC  
AATGAGGTAGGCCTGATCTTTGAAATAGTGAATAGGAATACAATGCATTTCTCAGTGATCAC  
TGATTAGAATGAGTTGGTGGGATCCTTGGGAAGCCAAACGGAGCGGAGTTCTGGATCATGT  
CCCATCCAGTCCAGTGAATCCACGACCCGCGAGACCTGCCCCCCCGCAACAGCTTATACCAT  
GGAATGAGGACAAGGTGATACTCTGAGCTGTGGACTGAACTGGCAGACACAACCTGTACAG  
ATTGAAATTTACCTTGTAAGGAGGAAGTGAATGAAATAAAGGATCCCCCTAAGGAATTA AAAA  
AAAAAAAAAAAAAAAAAAAAAAAAACCAAGAAAAAAAAAAAAAAAAAAAAAAAAAACTTGGG  
GGGGGGCCCGGCACCCAATTGCCCCTATAGTGAGTCGTTTAACAATCAACTGGCCGCCGG  
TTTAACAACGNN

&gt;539

&gt;540

&gt;541

NNNNNNNNNNNCCAGCGCGGGGGCCGAGAGAAGCAGTAGTCAATAAAGAGAGTG  
CGTATTTTCGAGATTGGAGCTGAGCTGTGGCTACCAGAAGATAGCGAACGAATGGAACTG  
AAAGTGGAATCAGGAAAAGGTAATGGAAGAAGAAAGCACTGAAAAGAAAAAAGAAGTTGAA  
AAAAAGAAACGGTCACGAGTTAAACAGATGTTGATATATCACTACTTGTGTCTTTAAC  
>542

NNNNNCGCCGGCAATCGAGTGGCTTCCTGGCCATGGAGAGGAGATCTGGACCCGA  
GGACGCCAGGGACTCCTCTCCGTCTCCCTGGACCGCTGTGTAGGCACCTGAGTTAACGGAC  
GCTAAGCGGGGTAGGGGAAGTAACAGTGTATCATGTATGCCACTGATTCCAGGGGACACTC  
CCCTGCTTTCCCTCAACCTCAGAATGGAAATAGTCGTACCCATCTGGCTATGTTCCAGGGA  
AGGTTGTCCCATTCGCTCCCCCTCCTCCTCCAAAGAGTCAAGCTTCAGCCAAATTTACCTCC  
ATCAGACGAGAAGACCGGGCAACCTTCGCATTCTCACCTGAAGAACAGCAAGCCCAGAGAG  
AAAGTCAAAAGCAAAAGAGACACAAAAATACTTTCAATTTGTTTTGCTATTACTAGTTTCTCATT  
TTTTATTGCACTTGCAATCATTTTAGGAATATCCTCAAAATATGCTCCAGATGAAAATTGCCCA  
GATCAAAATCCTCGTCTCAGGAATTGGGATCCAGGACAAGATTCTGCAAAGCAAGTTGTTAT  
CAAGGAGGGAGATATGCTCCGTCTGACCTCAGACGCCACCGTGCATTCTATAGTCATTTCAG  
GATGGAGGACTGCTTGTATTTGGGGACAATAAAGATGGATCCAGAAATATTACTTTGAGGAC  
TCATTACATCCTGATCCAGGATGGTGGGGCGCTTCATATTGGAGCAGAAAAATGCCGCTATA  
AATCCAAAGCGACAATTACCTTGTATGGCAAGTCAGATGAAGGTGAAAGTATGCCAACATTT  
GGCAAAAAGTTTATTGGTGTGGAAGCTGGCGGACACTGGAGTTACATGGGGCACGGGAAG  
GCATCGTGGACGTTGTTGGCAAGGACCCTGAATTCTCAGGCTTGCCCTTTGGGTCTATAC  
CTTTGAAAAGGACTTTTCCCGGGGCCTCAATGTGAGGGTCATTGACCAAGACACGGCCAAA  
ATTTTGAAAAGTGAGAGATTTGATACCCATGAATACCGCAATGAGAGCAGGCGGCTTCAGGA  
GTTTCTGAGATTCCAGGATCCAGGTCCGATTGTTGCCATAGCTGTGCGGGGATTTCAGCCGCT  
AAAAGTCTCTTACAAGGAACCATCCAGATGATCCAGGAACGTTTGGGAAGTGAATGATCCA  
AGGACTGGGCTACAGGCAAGCTTGGGCTTTAGTTGGTGTGCTATTGATGGTGGAAGCACTTCTT  
GCAATGAATCCGTGAGAACTATGAAAATCATAGCAGTGGCGGGAAGGCTCTTGCCCAAAG  
AGAATTTTATACTGTGGATGGCCAGAAGTTCTCTGTGACAGCTTATAGTGAATGGATTGAAG  
GCGTTTCTCTTTCAGGATTCGGGTAGAGGTTGTAGATGGAGTGAAGCTAAATTTGCTAGAT  
GATGTTAGTAGTTGGAACCTGGAGACCAGATTGTGGTGCAGACAGACTATTCATGTA  
CCAAGCAGAGGAGTTCACTCTTCTCCCTGTTCTGAATGCAGCCATTTTCAGGTCAAAGTCA  
AAGAAACCCCTCAGTTCCTGCACATGGGTGAGATCATAGACGGTGTAGACATGAGAGCTGA  
GGTTGGAATTCTTACCCGGAATATTGTGATCCAAGGAGAAGTGGAGGACTCATGCTACGCA  
GAAAATCAGTGCCAATTTTTGATTATGATACCTTTGGGGGACACATTATGATAATGAAAATT  
TTACTTCAGTCCATCTTCTTATGTGGAATTGAAACACATGGGTGAGCAGCAGATGGGGCGA  
TACCCTGTTTATTTTACCTGTGTGGTGACGTGGATTATAAAGGAGGATACAGACATGCAAC  
ATTTGTGGACGGCCTGTCTATTCATCACAGCTTCTCAAGGTGCATCACTGTGCATGGGACAA

Table 4

ATGGCTTGCTAATAAAAGACACCATTGGGTTTGACACACTAGGTCATTGTTTCTTTTGGAAAG  
ATGGTATTGAACAGAGGAATACTTTGTTCCACAATCTGGGACTCCTCACCAAGCCGGGTACT  
CTCCTGCCCACCGATAGGAACAACCTCCATGTGTACCACCATGCGAGATAAAGTGTGGAAA  
TTACATTCTGTGCCTGCTACTGACTGTATGGCTGTTTCAACTTTCTGGATTGCTCATCCCAA  
CAATAATCTGATTAATAATGCAGCTGCAGGCTCACAGGATGCTGGAATATGGTATTTATTCCA  
CAAGGAACCAACTGGGGAATCCAGTGGATTGCAGCTCTTGGCAAACCAGAACTCACTCCA  
TTGGGTATATTTTATAACAACAGGGTCCATTCAAATTTAAGGCTGGCTTATTTATTGACAAAG  
GTGTCAAAACAACCAACTCTAGTGCTGCTGACCCAAGGGAATACCTCTGTTTGGACAATAGT  
GCAAGATTTGACCTCATCAGGATGCAAACCCCGAAAAACCACGTGTTGCTGCTCTAATTGA  
CAGGCTCATTGCTTTTAAAAATAATGATAATGGAGCTTGGGTCAGAGGAGGAGATATTATCG  
TTCAAAATTCAGCATTTCAGATAATGGAATAGGACTGACCTTTGCCAGTGATGGAAGCTTC  
CCAAGTGATGAAGTTCCAGCCAAGAGGTATCTGAATCTCTCTTTGTTGGGGAGAGCAGGA  
ATTACGGCTTTCCAGGGTGGTCAGAACAGTATGTAGGCACTGGAGGAATAGACCAGAAGCC  
TCGAACATTACCCAGGAACAGGACGTTCCCAATTAGAGGCTTTCAGATTTATGATGGGCCCA  
TTCATCTACAAGGAGCACTTTCAAAAAATATGTGCCAACTCCAGATAGGTACAGCAGTGCA  
ATTGGCTTCCTCATGAAGAATTCCTGGCAGATAACCCCCAGGAATAATATCTCCCTCGTGAA  
GTTTGGTCCACATGTCTCTCTGAATGTCTTTTTTGGAAAGCCTGGTCCCTGGTTTGAAGATTG  
TGAGATGGATGGTGATAAGAACTCCATATTCATGACATTGATGGCTCTGTGACAGGATACA  
AGGATGCTTATGTGGGAAGAATGGACAACCTACCTGATCCGCCATCCAAGCTGTGTAAATGTG  
TCTAAGTGGAATGCAGTGATCTGCAGTGGGACCTATGCACAGGTCTATGTACAGACATGGA  
GCACTCAGAATCTTTCTATGACCATTACACGAGATGAGTATCCGTCCAACCCTATGGTGCTC  
CGAGGTATTAATCAGAAGGCTGCCTTTCCACAGTACCAGCCTGTCTGTCATGCTGGAGAAGG  
GTTATACCATCCACTGGAATGGGCCGGCACCACGGACTACATTTCTATACCTCGTCAACTTC  
AACAAGAATGACTGGATTGAGTTGGCCTTTGCTATCCATCAAACACAAGTTTTCAAGTTACC  
TTTGGCTATTTGCAGCGGCAGAATGGCTCATTATCCAAAATCGAAGAATATGAGCCTGTGCA  
TTCACTGGAAGAAGTCAAAGAAAGCAATCCGAGAGGAAATTTCTATTTTACTCCAGCACGG  
GGTTACTGTTTTGTATCTCAAAGCCAAAAGCCACAGGCATGGCCACAGTTACTGTTCTATCTC  
AGGGATGTGAAAGAGTCAAGATCCAAGCAGCCACAGACTCAAAGGACATCAGTAACTGCAT  
GGCCAAAGCATACCCACAGTACTACAGAAAGCCGTGAGTGGTCAAGCGGATGCCGCCATG  
CTCACTGCACTGTGTCAAGGCTGTGGCACTCGGCAGGTGGTGTTTACTAGTGCTCCTCATAA  
AAGTTACCTCCCTGTGCAATTCAGTCACTGATAAAGCAGAAACCCAGCGTGGAGACCCGT  
CTGTTATTTCTGTCAATGGCACTGACTTTACCTTCGGAAGTGCAGGCGTCTCCTCCTTGTG  
TGGATCCGTGCAGCGTTCCATTCCGCTTGACGGAAAAACGGTTTTCTCTTGCTGATGTC  
AGTCGCATTGAAGAGTATTTAAAAACAGGCATCCCTCCAAGGTCCATTGTTCTGTTGAGCAG  
AAGAGGAGAAATAAAGCAGTTAAACATTTACACTTACTAGTACCTCTGGGATTAGCCAAAC  
AGCTCATCTTTATGACAAAGGGAGTACCATATTTTGGGATTCAGTGAAACTTTAAACCATC  
ATGGACTAAGCTATTTACCAGTCTGTGGACAGGGCCTTGGGGTGCTTGAACAATTCATAC  
CTTTGCAGCTGGACGAATATGGTTGTCCAGAGCCACCACTGTCCGCAGAAGAGACCTGGA  
ACTGCTAAAGCAAGCTTCAAAGCACATTAGAGACTAACTGTAACCTAAGTGCTGGGGGAAA  
AAAAATGTGAACTAAGTTATTTAATTTATGGCATTJTAATGACACTGTTAACCACGGAAC  
CATTTTCCAGTTTGATACAGAATGGGGAGAAAAGAAAGCGTTTGAAATTATTGCTTGGATACC  
AGCTTCATGCACCTTCTAGTTGTACAAAATGTTAAAGACGTTGTTTGTATTTGTAAGGCTGGT  
GTATTGAGAGAGCAGATCTCTTATTCCTCACTTTCCACCCCGTATTTTGTAAATGACCATGAG  
CAATGTTTTTACTTTTTGTATAATGGGGTGGGGTGGAGTGGGGGCTTCTGAGAGTCAGCCTG  
AGGTCTTTAGAGGACCAGCTATTGTAGCACCTTGGATACTTGAAGTTTAAATGCTCAGTTGGG  
TCGGGTGGCAGTTGACTTGGTGGCTGGCATGTTGAGCAGTGCCTGGGGCCCTGTTTCTGGG  
CAGCCTTTGAGGATTTTCTATGATATTGAATGACAGTTTAAAGTGGCAACTCAGGCCCAGCTC  
ATGCCCTTTTTGCCTGGACATGTGCTATTTTTATTCACTTATATCAATTACTTGTAAGGGT  
TAACTTTCAAACAGGAAGTATATTGGGACAAAAGGCTCTTGGGGATTAGATATCCCTTTAA  
TCTGTGACCAATTGGGCAAAAATTTTCTGCAGCAAAAGTCTGAGGCTGTTGGGACCATTTT  
TGCAGCTTAAATCCTTAGCCTCTTTTGAAGTGTATTTGTGTTTAAATGCAGAGCTCAACTGA  
ATATTTCTTTTTTGT.TTGT.TTGT.TTGT.TTAAAGAGTAGGTTGTTTTCTGAACCGTAAAC  
TTGTATCATTTTAACTTGCACAAAGGAAGTCTGTTCTTGGTATTGCTCTTGCACCTTGGGTTTT  
TGTTATTGTTTTGTGTGGATTTTTTAAAGCTTTCTGTTCAACCCTCCTGCCAGGAAAAATCCCA  
GAAAGCTTAAATGATACCCCAAAATGATTACACCCAGGGAGGAAAAAAAGGACGCTTCTAG  
GGTCAGAATCGTGGAGAGAATACTCAGAAATGAACCTCTTAAAGCCTTGCAGGAATGAGTC

Table 4

ACTCTTACTTAATGAAATGTTAAAGCCAATTA AAAAGCATGCTGTGATGCCAGCTTCCCTTT  
CCACAGGGTGCATGCGTCTCCTGCTGGTGAATCACATGCGGCAAGAGGCAACTGGCTCCAC  
AGCCTGGGATGCTGCCGTACCAAGAGGAAAGAAGCAGCAAAATGCCTTTACGTTGTTCTAAA  
CCCCCGACGCATAAAGTG TAGAGGAGGGATGGCCAAGGGTGGGTGGTAGAAAAGTGTTTC  
AGGCTGACACTGGCAATGAGTACAGATAATTTCACTTTCCTCTTCCAGGGGCAAGGCTGAT  
GGCCTCTACCTTTGTATCCAGGAGAACTGCAGAGCAGCCCTGTGACTTTACAAAATATGCT  
ACCTCAAAGTGCTACCGATAAACCTTTCTAATTGTAAGTGCCCTTACTAAGGGCACATGTCTT  
AATCAAAGTTAGTTTTTTGTTTTCTGGTTTGT TTTTTTTTTTTGTATATTGATGAATGAGATCTT  
ACCTATTAATATATTATTGGATTATGGTTCTCTGAAGGTCATTAGAGTGTGTGTGTGTGTG  
TGTGTGTGTGTGT TTTATGACTTAAATATCTTACGTGTGT TTTTATAGAGCTTGGTTCTTTAA  
GATTTGGAGAAGATATGTAAATTACCAAGGCACTTGGTTTTCTGT TTTATATACTAATAATCA  
GGGCCTAAGTTAAATAAAAATATGTGTGCATGTATTTTAAAAAAAAAAAAAAAAAATTGCG  
GCCGCAAGCTTATTC

&gt;543

acacaccatgcacgcaaaACaaaTTGCAATAATGTGATAAGTTCTTTAAAAAGaggttaaGAGcaaC  
gtGCTTTGGGAGCAGAGAAgaGGGAGAAAGcagcatcttgctggatGAGCCAGGGGACACAgagag  
AAGCCCACTATCTCATTTAATCTTTACAAcICTCTTGCAAGGTTCCCTGTTgtgAAAATACATG  
AgaTAAATCATGAAGGCCACTATCATCCTCCTTCTGCTTGCACAAGTTTCTGGGCTGGACCG  
TTTCAACAGAGAGGCTTATTTGACTTTATGCTAGAAAGATGAGGCTTCTGGGATAGGCCcaGAA  
GTTCTGTATGACCGCGACTTCGagcCTTCCCTAGgCCCAGTGTGCCCcttcCGCtGTcaATGCCA  
TcTTGAGTgtcagtgctgattggtctgacacgtccaaggtatccccctacacactctctagcctcaaacacaaataccaataag  
atgagcttagacc

&gt;544

TGGCGGGCCGAGGACACAATACTTACTTACAAATTTAATACTGCTTCAAGGTATTTAAT  
CTAAATTTTACCAACTTTGATTTGTCTGGTTAGGATATTTTGT TTTAGTGGATATGCTTTAATT  
CGGATCAATTACTGCAGTAAATCTCATCCCTAAGCATGAAATGTTGTCAACAAATACCCAGTT  
CCATTTAGTTATCAATTAGCCCAAATAAGAGATACAAAGTATAACAGTGACCAACCTTGTACC  
TGCCCGGGCGGCCGCTCGACCACTGACATAGACTGAAAGCAAGAAGAGTGCTGTGT TTTGT  
GCTATATCCCCTCCAACACCTAAGGCAATGCATTTACATCTTGCTGAGAGCAGATAACTCA  
ATACCTGGAAC TAGAAAATTAGAATCTAAAAGACGGAAGGCATCTAAAGAACAGTTCCCATC  
ATGCCACAGCTGANNNNN

&gt;545

&gt;546

CCGGGCAGGTACCTGATGCAGGGAATTGAAGCCAGACCCAAAAACGGGCAACCCAA  
TAGGATGGCCATCTGCCCCATTAAATGCCAGCTTGTCCAAGTGTAATTATTAACAGTGCCCCC  
TTTCACTCTCAAAGAGTCCCTGTCCAGACAGGTAATTGTGAAAGTCGCCTTCAGAATGACT  
GGCCGGTAAGGAAAGTGGAGTGAGGGAAGCAGGGTAGGTGGAGGTGTGAAAGGGAGAAG  
GGCCTCATCTCAGGGTGGCTGGACCTGCACCAGCATCGGCCTGCATGAATGTGCTCCTACT  
CTTGCCAGGCTGAGTATCAAGAGAAGCAAGAAATCTAGATAAAAATCCAAATCCAGAAACA  
TCAGCGTTTTGAGGTAAACATGTTGGCAATTATT CAGCNNNNNNN

&gt;547

&gt;548

&gt;549

&gt;550

&gt;551

GGTACATTAGCAAAAACAGTGGACTTTGTGACCTTGAAAAAGTCATTTAACATCTCTG  
AACCTACTTTCTAAGTCTCTACAAGTAATATATAGTGGGTGAGGTGTTCTTTCTTTGTTCTGT  
TACTCGGATGTGAAACTCTCCTTTTGTAGATGAAACCATTCGTAAGGAATATAAGACTTTT  
CCCTGTAGTTATCTTACAGACTGGAGAGAGTGCTAGTGAATGCTTTTGTCTTCAATGCCCATC  
TCTTGGAAATATTGAAGGTGGAGTAGCAACCGGGCATTATATTATCTCTTGGAAAAGGACCT  
CAGCAATGGAGAATATCCCCATCATCACAACCTGTCATCACTCTGCCGCACGTGATTGTGGAG  
AATATCCCTCTCCATGTGAATGCAGTGTGTCTCTCTGTAGATCTGCCGTCAATTTGGGC  
GTGTCAGAGAGTCGTTACCTGTCAAGTATCACCTACAGAATAAGACCGACTTAGTTCAAGGA  
TGTAGGAAATTTCTGTGGGAGCCCAGTTGATTGCCTTCATGTTCTCAGGTCTCCAAACAGG  
TTTCGATTTACGTATTCTCCTGGGCACGGGAGGCAGGGAATGGTTATATAATTTCTATTCT  
CTCTGGATGGCTGGGATANN

Table 4

&gt;552

caccgcagtgGCCGGCCGCCCGGGCAGGTACTACAATGATTCTGAAGCACAGTGTATTC  
AGACAGATACAGTGAACCAAGTGCAATATGTAAGGATGAAAGAAGAAGAGATGACAAAGAAA  
TCCAAGTAAATGCCTTGTCTTTGCAAATGTTTTATATTAATCATAAGGAAGGAACTACTTGC  
CTTAAATGTTATCAAAAGAGTTTTCTAACAAGGTTAATACCTTAGTTCTTAACATTTTTTTCTT  
TATGTGTAGTGTTCATGCTACCTTGGTAGGAACTTATTTACAAACCATATTAAGGCTAA  
TTTAAATATAAATAATATAAAGTGCTCTGAATAAAGCAGAAATATATTACAGTTCATTCCACAG  
AAAGCATCCAAACCACCCAAATGACCAAGGCATATATAGTATTTGGAGGAATCAGGGGTTTG  
GAAGGAGTAGGGAGGAGAATGAAGGAAAATGCAACCAGCATGATTATAGTGTGTTCAATTTAG  
ATAAAAGTAGAAGGCACAGGAGAGGTAGCAAAGGCCAGGCTTTCTTTGGTTTTCTTCAAAC  
ATAGGTGAAAAAACACTGCCATTCACAAGTCAAGGAACCCAGGGCCAGCTGGAAGTGTGG  
AGCACACATGCTGTGGAGCACACATGCTGTGGAGATTGCAGTGTGTCTGAGGTTTGTGTAG  
TAGTGGAAAGATTTTAGGTATGTAGAGCAAGTTGAAAATGGATTGAGACTGCATGGTGGCATA  
AATGAGAAATTGCCTGTAGCATCTAGTCTACTTGAAGGAAGTGGAGACATAAGGAGAGACAA  
AACAGGTTTGTGCCATAAAGTATTTTTCAAAGACACCAAGATGTGGTAAATGAAATTATTA  
GTTCACTTCCCTGCTGCCATGAACTTTGCCTTAAGAAGGTGCTGGATTCCAAGGTTTGTA  
AGGCATCTCGGTAAAGACTGCTTTTTGAATGCATATGATTTGCATCAGCTAGACTGAGTTGA  
TTCTGACCAGACTTGATGGTTTTAAGTCGGAACCGATAAATTTAAAAAGGAGAAAAAATAAT  
TTGACCTAGTAGTATAAAACATGAGGCTTTAATGGTACTTTGCTATGAAAAGAAAACACTGTA  
TTCTTATGCAAACACATGTATCTTTCATTATTTATAAGTGGCCTCTCTTAGCTCAGTTACTC  
AATTCATACGTAGTATTTTTTAAATAATTTTATATCTGTGTACCACCCCATATATTTTATATTA  
CTGTTTCACATGTACAGCTTTCTACTTCTTTGTAAGAACACCAACCAACCAAGGTTTAAGTGA  
TTAATAGGCTTGAGCACCGGGTGGCAGATTCTCTATGCAGTGTGGTTCAAGTTCTTTGACC  
GCACTTATATGCATTGCTAATATGGAATTTAAGATACCATACACAGTCTCTCATGGACCTATC  
TCTATTGTAGAATTATGACTTATGTCTTACTTGCCAAATTTTTCTGAATGTGACCTTTTTTTGCT  
GATTTGCTGGGTTTGGGATTAAGTACGATTATTTGCCACCTTTATATTGTATTATAAAAAA  
AAGTACTATCAATCACTACTTTGGATTGTTGTGCTGGTGTAAATGTGGATTTAACATCAATA  
ATATTTGACAAATAAAAAAAAa

&gt;553

TGGCGGCCGAGGTACCCATCTCTGCCCATCACCGCTGGAATTTTGATGACCTATTG  
GAAAAGATCTGGGACTATCTGAACTAGTGAGAATTTACACCAAACCCAAAGGCCAGTTACC  
AGATTACACATCCCAAGTGGTGCTTCCTTACTTCGAGCGGCCGCCCGGCAGGGACTTCAC  
ACCAAACACTAGTCAAGCACTGACGTTATTCTACAGGACTATGAACCTTCATATCCCAATT  
ACAGTCCGGACAGATAAAGGAAAAACAACCCAAATCCAGGAGGCAATATAAAGGAAGAGAA  
CAAAACACACATTCACTACACTCACACTTAAAAATAGGGGAAGACCAACAGGGGAACCTTCGT  
TCTCTTCTGGATGTCTACTTAAAAATCCCATGTGGT

&gt;554

NNNNNCATGAGTTTCGGGACAAATTAGCTGCACATCTATCATCAGAGATTCACAATC  
AAGATCTGTATCAAGATAAAGGAATTCAAATAGCATATATATGACCATGTCTGAAAATGTCAG  
TTCTCTAGCATAATTTGTATTGAAATGAAACCACCAAGTGTATCAACTTGAATGTAAATGTACA  
CAGAAAAATATCTGATACTACAAACAGGATATAATCTTAACTTTGATCTCAGTTTCTGTTGCTT  
CATGTACAGAGAAAAACAGAGCAGGAAAAATGGCAAGTAAACAGAAGTGCACATTGCACTAA  
GCTATTGTAGAGCACAGGAAACAATCTTTCAAATGTCTACACTGAACTGATTCTTTAAAC  
GATTCATAACTGTTGTAAGAGTTAGTGCTCCATTACTACAGTGCAAAATGTATTGTTGTT  
CAATACAAAATTTAAAGCAATCTCAAGAGTACCTCGGCCGCCA

&gt;555

TGCAGGAGTCCGACCTCCGTCTGTTCTGTTCTGGACGGAGACATCCTCCGCCAGGACAG  
AGTCTCCAAGGTGCTACTCTTCATCCACCTCAGCTTCCAGCAGTTTCTCACTGCCCTGTT  
CTACGCCCTGGAGAAGGAGGAGGGGGAGGACAGGGACGGCCACGCCTGGGACATCGGGG  
ACGTACAGAAGCTGCTTTCCGGAGAAGAAAGACTCAAGAACCCCGACCTGATTCAAGTAGG  
ACACTTCTTATTCGGCCTCGCTAACGAGAAGAGAGCCAAGGAGTTGGAGGCCACTTTTGGC  
TGCCGGATGTCACCGGACATCAAACAGGAATTGCTGCAATGCAAAGCACATCTTCATGCAAA  
TAAGCCCTTATCCGTGACCGACCTGAAGGAGGTCTTGGGCTGCCTGTATGAGTCTCAGGAG  
GAGGAGCTGGCGAAGGTGGTGGTGGCCCGTTCAAGGAAATTTCTATTACCTGACAAATA  
CTTCTGAAGTGATGCATTGTTCTTCAGCCTGAAGCATTGTCAAGACTTGCAGAACTCTCAC  
TGCAGGTAGCAAAGGGGGTGTCTCTGGAGAATTACATGGATTTTGAAGTGGACATTGAATTT

Table 4

GAAAGGTGCACTTACCTAACCATTCCGAACTGGGCTCGGCAGGATCTTCGCTCTCTTCGCCT  
CTGGACAGATTTCTGCTCTCTCTTCAGCTCAAACAGCAACCTCAAGTTTCTGGAAGTGAAAC  
AAAGCTTCCTGAGTGACTCTTCTGTGCGGATTCTTTGTGACCACGTAACCCGTAGCACCTGT  
CATCTGCAGAAAGTGGAGATTA AAAACGTCACCCCTGACACCGCGTACCGGGACTTCTGTCT  
TGCTTTTCATTGGGAAGAAGACCCTCACGCACCTGACCCTGGCAGGGCACATCGAGTGGGAA  
CGCACGATGATGCTGATGCTGTGTGACCTGCTCAGAAATCATAAATGCAACCTGCAGTACCT  
GAGGTTGGGAGGTCACTGTGCCACCCCGGAGCAGTGGGCTGAATTCTTCTATGTCCTCAAA  
GCCAACAGTCCCTGAAGCACCTGCGTCTCTCAGCCAATGTGCTCCTGGATGAGGGTGCCA  
TGTTGCTGTACAAGACCATGACACGCCCAAAACACTTCCTGCAGATGTTGTCGTTGGAAAAC  
TGTCGTCTTACAGAAGCCAGTTGCAAGGACCTTGCTGCTGTCTTGGTTGTCAGCAAGAAGCT  
GACACACCTGTGCTTGCCAAGAACCCCATTTGGGGATACAGGGGTGAAGTTTCTGTGTGAG  
GGCTTGAGTTACCTGATTGTAACTGCAGACCTTGGTGTTACAGCAATGCAGCATAACCAA  
GCTTGGCTGTAGATATCTCTCAGAGGCGCTCCAAGAAGCCTGCAGCCTCACAAACCTGGAC  
TTGAGTATCAACCAGATAGCTCGTGATTGTGGATTCTCTGTGTCAGGCATTAGAGAATCCAAA  
CTGTAACCTAAACACCTACGGTTGAAGACCTATGAACTAATTTGGAAATCAAGAAGCTGTT  
GGAGGAAGTGAAAGAAAAGAATCCCAAGCTGACTATTGATTGCAATGCTTCCGGGGCAACG  
GCACCTCCGTGCTGTGACTTTTTTGTGCTGAGCAGCCTGGGATCGCTCTACGAATTACACAGG  
AAGCGGGATTCCGGTCTCTAAGATGTCTTATGAATGCAGGTCAGAGGGTCACATGTTAACAC  
TAGAGTCTGTGAGAGGTAGGATTTGACACTGGTTTTCTCACTATTTTTGGGAGATTCTGCAC  
GAGTCACGCACCCCTTACATGACGCTTGTACTTTCTCACAGGGATAATAAAGTTAGAGC  
ACTCTCGNN  
>556

NNNNNNNNNNNNNNCGGGGTACTTCTAGAATTAATTAACGCGGGGGGAACCGAGGTAC  
GCGGGGGGGGAGTGGCACTCGCAGCTGCAGCAAATCTCAAAATAAAGAGGGCAACCGCCTT  
TCTCTTCTCTCCATCTCCCTATAGCACACCTTTTATTTCTTTTCTTTTCTTTTCTTTTAA  
GAAAGATTTTACTTGTAGATCAACTTTCAAAATGTAGGAAGTCAGAATGGGTGACATCATCAG  
AAAAATATGTGGAGCTGATCACAAGAAGTGAAGAACCCAGAGCAGCAAAGCGGTTGTGACT  
CCTGGGCCCAGGGAGTTGACAGCGTCTGGGCTTCAAGAGGAGCCAGCGCCTCCGAGTTGTC  
TTGAAGTGAGGCTCTGCTGTAGTCTGTTCTTCTGGCTCTAAGATCTGAATGTTGTGACCAAC  
TAATTTGCTCTTTCTGGAGGGTAACCCAGTTTGGTCCACAAGGCTTGCTGCCCAATCTTT  
GCCAACAGTTGAACCAAGACTCTGAGGCTGATATGCAATGTCACTTACAACATTAATCAGATA  
CTGCATTTAAGATCTTGATGTGGAAGAAATGGAGGACTCAGAACCAAGGATTTCCAAGTGAT  
TTCTTCCAAAGCACAGGAATCTCACTCTGTTAAAGCTGGTCTGTTCTAACTGAGCTGGATGG  
TCCAGGCCCTATTTCTATGATCTGTTTTTGAAGCTGTTGTATTTGTGTGACACAGTGTGGA  
GCATGATGTCAACTCCACATACTGTAACCCAGGAAGGAGCATGATGTCAGCTCAGGATACC  
GGAACCGATAAAAACTCAACACAGCTCAACTCCATAAAGGACTTCTGTTTTGTAATCTGGTTT  
CGAGATCTGATGCGTGTGTTTCTAACCCCCGTACGTCAGGAGGTCTGACGTAGTCACCC  
AACATGACTATGAGAAAATATACTGTAAAGATGTGTGTGGGAN  
>557

>558  
>559

TGGCGGCCCGCCCGGGCAGGTACGCGGGGGGTGCCTGGCTCCGTTTCCTGCTTTTG  
GTTCTTACAGTAGTCGGCGTAGGCCTTAGGTGGGTTTCGTGCGCCTTCTACCTCGCTGTTTCG  
GTTTTCTTGGCTCCTCGGCCTTTTCTCCCTGTTTGCAGCTGGGAGCGGACGAAGCGCGAAG  
CTGGGATTTTTTACTGTCTCCTGAAGAATTTAACACAAACATGGATATCAGACCAAATCATAC  
AATTTATATCAACAATATGAATGACAAAATTA AAAAGGAAGAATTGAAGAGATCCCTATATGC  
CCTGTTTTCTCAGTTGGTCATGTGGTGGACATGTGGCTTTAAAGACCATGAAGATGAGGGGG  
CAGGCCTTGTCATATTTAAGGAACTGGGCTCATCCACAAATGCCTTGAGACAGCTACAAGGA  
TTTTCAATTTATGGTAAACCAATGCCAATACAGTATGCAAAAACAGATTCCGATATAATATCAA  
AAATGCGTGGAACCTTGTGACAAAAGAAAAGAACAAAGACCACGAAAAAAGCCAAAACCTGTG  
GAACAGACTGAGAAACACAAACAAAAGCCTGGCCAGGGAACTCCAAATTCAGCTAATACCC  
AAGGAAATTCACACAAATCCTCAGGTCCTGATTACCTCCAAAATATATTTTTATTCTTAATA  
ACTTACCAGAAGAGACTAAATGAGATGATGTTATCCATGTTGTTAATCAGTTCCTGGTTCAGG  
AAGTACGTCTGGTACCGGGAGGGATGACAAATGCTTTCTGTCGACTTGAAATCGTTGGCAGG  
TGGAGTGGCAGGGTGCTTACAGGGTTTTAAATCACACGGGCATGTATTAGAATACCTTGACAG

Table 4

GAATAATTGGGGAGGGTTAAGACTGGGGTCTACCCGCTGGGGACACAGGGGGGCTAACGA  
GAGGGGGGACGGCTGGGGGGAAACCTGTTNNNNNNNNNNNNNN  
>560  
NNNNNCCCCCGAGGGTTCCGATTAAGTGCACGGCACCTCGACCCCAAAAACTTGA  
TTAGGGTGATGGTTCACGTAGTGGGCCATCGCCCTGATAGACGGTCGCCCTTAACGTTGA  
GTCCCACGTTCTTTAATAGTGGACTCTTGTTCCAACTGGAACAACACTCAACCCTATCTCGG  
TCNATTCTTTTGATTTATAAGGGATTTGCCGATTTCCGGCCTATTGGTTAAAAAATGAGCTGAT  
TTAACAAAAATTTAACGCGAATTTTAACAAAAATTAACGCTTACAATTTCCATTGCCATTCA  
GGCTGCGCAACTGTTGGGAAGGGCGATCGGTGCGGGCCTCTTCGCTATTACGCCAGCTGG  
CGAAAGGGGGATGTGCTGCAAGGCGATTAAGTTGGGTAAACGCCAGGGTTTTCCAGTCACG  
ACGTTGTAACGACGGCCAGTGAATTGTAATACGACTCACTATAGGGCGAATTGGCCAAGT  
GAGCTCGAATTGCGGCCGCATGCATAAGCTTGCTCGAGTCTAAAGTCGACTGGGCCGAGGC  
GGCCGACATGTTTTTTTTGCGGCCGCTTTTTTTTTTTTTTTTTTTTTTGAAGCGACGCT  
CAGACAGGCGTAGCCCCGGGAGGAACCCGGGCGCAAGTGC GTTCGAAGTGTGCGATGAT  
CAATGTGCTGCAATTACATTAATTTCTCGCAGCTAGCTGCGTTCTTCATCGACGACGAG  
CCGAGTGATCCACCGCTAAGAGTCCCCCTTGTGCTCTTCTCGCAGCCGTACCACACGGC  
GGCGTCCCGAGACNAAGGGNTTCGATGGACAAGAGACCCAAGCATAGAANNNNN  
>561  
NATACATCAACATGCAGAACTGTAAAGGAAGAGCACGGGTACAGAAGAGAAAAACA  
GGGGGGAAAAAAAACAGTAACATCCAGAAAACAAACGCTTCCAAGAGCTTTTCTAAGTTAA  
AAGATGGCTACCAATGGCGAAGACGGTGTCCCTGTCAATTGTGGCCGCTTCTTAGGGTC  
AAATAACAAAGAAGCAACTTCATCTCTAAATAAAAGGCTGGCATCCCTTTGAGGGAGGGCGA  
GTCGTTGCAGCTGCTGGGCTAAGGACGTCATCTTTCACGCCAGCGGAGTTTTAATGACACG  
GGCTGGAAGTGGGAATTTGGGTATATCTTGAAAGGCAACAACTCTTCACAGCGCTTCCACA  
TGGTACCTCGCCCCCACC  
>562  
>563  
>564  
>565  
atAGGGAGTGCACCCACGCGTCCGCGGACGCGTGGGCGCCGCGGGAGCAGCCGCT  
ATCTCTGTGTGTCCGCGTGTGCGCCCGGTCCCCGCTGCCGCACCATGGAGAGCTACCAC  
AAGCCTGACCAGCAGAAGCTGCAGGCCTTGAAGGACACGGCCAACCGCCTACGTATCAGCT  
CCATCCAGGCCACCACTGCGGCGGGCTCTGGCCACCCACGTCATGCTGCAGCGCCGAG  
AGATCATGGCTGTCCTCTTTTCCACACCATGCGCTACAAGTCCCAGGACCCCGGAATCCG  
CACAATGACCGCTTTGTGCTCTCCAAGGGCCATGCAGCTCCCATCCTACGCGGTCTGGG  
CTGAAGCTGGTTTCTGGCCGAGGCGGAGCTGCTGAACCTGAGGAAGATCAGCTCCGACTT  
GGACGGGCACCCGGTCCCGAttAAcgggtggccttctgtatgacaGAAACAAGCTTTCACCGACGTGGC  
CACTGGCTCCCTGGGCCAGGGCCTCGGGGCGCCTTGTGGGATGGCCTACACCGGCAAATA  
CTTCGACAAGGCCAGCTACCGAGTAGCTGGGACTACAGCTACCGAGTCTATTGCTTGTG  
GAGACGGGGAGCTGTGAGAGGGCTCTGTATGGGAGGCCATGGCCTTCGCCAGCATCTATA  
AGCTGGACAACCTTGTGGCCATTCTAGACATCAATCGCCTGGGCCAGAGTGACCCGGCCCC  
ACTGCAGCACCAGATGGACATCTACCAGAAAGCGGTGCGAGGCCTTCGGTTGGCATGCCATC  
ATCGTGGATGGACACAGCGTGGAGGAGCTGTGCAAGGCCTTTGGCCAGGCCAAGCACCAG  
CCAACAGCCAACAGCCATCATTGCCAAGACCTTCAAGGGCCGAGGGATCACGGGGGTAGAA  
GATAAGGAGTCTTGGCATGGGAAGCCCCCTCCCCAAAAACATGGCTGAGCAGATCATCCAGG  
AGATCTACAGCCAGATCCAGAGCAAAAAGAAGATCCTGGCAACCCCTCCACAGGAGGACGC  
ACCCTCAGTGGACATTGCCAACATCCGCATGCCAGCCTGCCAGCTACAAAGTTGGGGAC  
AAGATAGCCACCCGCAAGGCCTACGGGCAGGCACTGGCCAAGCTGGGCCATGCCAGTGAC  
CGCATCATGCCCTGGATGGGGACACCAAAATTCACCTTCTCGGAGATCTTCAAAAAGGA  
GCACCCGGACCGCTTATCGAGTGCTACATTGCTGAGCAGAACATGGTGAGCATCGCGGTG  
GGCTGTGCCACCCGCAACAGGACGGTGGCCTTCTGCAGCACTTTTGCAGCCTTCTTCACGC  
GGGCCTTTGACCAGATTGCGATGGCCGCCATCTCCGAGAGCAACATCAACCTCTGCGGCTC  
CCACTGCGGCGTTTCCATCGGGGAAGACGGGCCCTCCAGATGGCCCTAGAAGATCTGGC  
TATGTTTCGGTCAGTCCCCACATCAACTGTCTTTACCCAAGTGATGGCGTTGCTACAGAGA  
AGGCAGTGGAACTAGCCGCAATACAAAGGTTATCTGCTTCATCCGGACCAGGACGAGAGA  
AAATGCCATCATCTATAACAACAATGAGGACTTCAGGTGCGACAAGCCAAGGTGGTCCTGA

Table 4

AGAGCAAGGATGACCAGGTGACCGTTATCGGGGCTGGGGGTGACCCTGCACGAGGCCTTG  
GCCGCTGCCGAACTGCTGAAGAAAGAAAAGATCAACATCCGCGTGCTGGACCCCTTCACCA  
TCAAGCCCCTGGACAGAAAACCTATTCTCGACAGCGCTCGTGCCACCAAGGGCAGGATCCT  
CACCGTGGAGGACCATTATTATGAAGGTGGCATTGGTGAGGCTGTGTCCAGTGCAAGTAGTG  
GGCGAGCCTGGCATCACTGTCACCCACCTGGCAGTTAACCGGGTACCAAGAAGTGGGAAG  
CCGGCTGAGCTGCTGAAGATGTTTGGTATCGACAGGGATGCCATTGCACAAGCTGTGAGGG  
GCCTCATCACCAGGCCTAGGGCGGGTATGAAGTGTGGGGCGGGGGTCTATACATTCTGTA  
GATTCTGGGAAAGGTGCTCAAAGATGTACTGAGAGGAGGGGTAAATATATGTTgaGAAAAAT  
gaaaaaaaaaaaaaaaaaaaaaaatcgggggccccccccggggggggacaccaaagccctttaaggagattattaaccc  
ccccctcaggggagggttttaaaagaaannanagAATGGATGGTATAGTCAAATGCTGAAAGAACAAAACC  
TGTCAGCTAAGAATACTGTACCCAGCAAAGCTATCCTTCaaaAATGAACGTGAAATAAACTCT  
TTCCAGACAAGGAAAAGCTGAGATAATTCATCACCAGTAGATTGGCCTAACAAGAAATGATT  
ATGCTGAGTCTACAGCAAGAAGTGAAGGAGGTAATTACTGTCATGAAAACATCAGAAAT  
TATAAACTCAcAGATAgAGATAAATTTGTAAcTcGTaatACTCCAATACTATGATGATGC  
TgtgTaATCTTtCagacctcaactctgaaggITaAAAGTcaaaaTAGtaataaCta  
>566

NACATACTGTGCTAGGTGCGAGGCTGCCTCGTGAATTCCTGGGGACTGGAGGACCT  
GTCTGGTTATTATACAGACGCATAACTGGAGGTGGGATCCACACAGCTCAGAACAGCTGGAT  
CTTGCTCAGTCTCTGCCAGGGGAAGATTCTCTGGAGGAGGCCCTGCAGCGACATGGAGG  
AGCTGCTTTTGCTGAGAGTCTCTGTCTCTGCATCTGGATGAGTGCACTTTTCTTGGTGTGG  
GAGTGAGGGCAGAGGAAGCTGGAGCGAGGGTGCAACAAAACGTTCCAAGTGGGACAGATA  
CTGGAGATCCTCAAAGTAAGCCCCCTCGGTGACTGGGCTGCTGGCACCATTGGACCCAGAGA  
GCAGTATCTTTATTGAGGATGCCATTAAGTATTTCAAGGAAAAAGTGAGCACACAGAATCTGC  
TACTCTGCTGACTGATAATGAGGCCTGGAACGGATTCTGGCTGCTGCTGCTGCTGCTGCTGCT  
GAATGAGGCAGATGAGCTCCGTAAAGCTCTGGACAACCTTGCAAGACAAATGATCATGAAAG  
ACAAAACTGGCACGATAAAGGCCAGCAGTACAGAAAAGTGGTTTCTGAAAGAGTTTCTCGG  
TTGAAAAGTAAGCTTGAGGATAACATAAGAAGGCTCCGTGCCCTTGCAAGTGGGGTTCAGAA  
GGTCCACAAAGGCACCACCATCGCCAATGTGGTGTCTGGCTCTCTCAGCATTTCTCTGGC  
ATCCTGACCCTCGTCGGCATGGGTCTGGCACCCCTTCACAGAGGGAGGCAGCCTGTACTCT  
TGGAACTTGGGATGGAGTTGGGAATCACAGCAGCTTTGACCGGGATTACCAGCAGTACCAT  
AGACTACGGAAGAAGTGGTGGACACAAGCCCAAGCCCACGACCTGGTCATCAAAAGCCTT  
GACAAATTGAAGGAGGTGAAGGAGTTTTTGGGTGAGAACATATCCAACCTTTCTTTCTTCTAGCT  
GGCAATACTTACCAACTCACACGAGGCATTGGGAAGGACATCCGTGCCCTCAGACGAGCCA  
GAGCCAATCTTCAGTCAGTACCGCATGCCTCAGCCTCACGCCCCCGGGTCACTGAGCCAAT  
CTCAGCTGAAAGCGGTGAACAGGTGGAGAGAGTTAATGAACCCAGCATCCTGGAAATGAGC  
AGAGGAGTCAAGCTCACGGATGTGGCCCTGTAAAGCTTCTTTCTTGTGCTGGATGTAGTCTA  
CCTCGTGTACGAATCAAAGCACTTACATGAGGGGGCAAAGTCAGAGACAGCTGAGGAGCTG  
AAGAAGGTGGCTCAGGAGCTGGAGGAGAAGCTAAACATTCTCAACAATAATTATAAGATTCT  
GCAGGCGGACCAAGAAGTGTGACCACAGGGCAGGGCAGCCACCAGGAGAGATATGCCTGG  
CAGGGGCCAGGACAAAATGCAAACCTTTTTTTTTTTCTGAGACAGAGTCTTGCTCTGTGCGC  
AAGGTGGAGCTTGCAGTGAGCCGAGATATCGCCACTGCACTCCAGCCTGGGTGACAGAGC  
GAGACTCCATCTCAAAAAAAAAAAAAAAAAAAAAAGAATATATTGACGGAAGAATAGAGAGG  
AGGCTTGAAGGAACCAGCAATGAGAAGGCCAGGAAAAGAAAGAGCTGAAAATGGAGAAAGC  
CCAAGAGTTAGAACAGTTGGATACAGGAGAAGAAACAGCGGCTCCACTACAGACCCAGCCC  
CAGGTTCAATGTCTCCGAAGAATGAAGTCTTTCCCTGGTGATGGTCCCCTGCCCTGTCTTT  
CCAGCATCCACTCTCCCTTGTCTC

&gt;567

&gt;568

&gt;569

GACCCACGCGTCCGCTCCCGTGTGCTCGCTCGCTTTCTGTCAGCCTCTCTCCCTCTCCC  
TCTCCCTCTCCTTCTCTCGCTTCTCTCGCACCTGAGCGTACGCACCTGCCCGGGCC  
CGGCTCCCTCCTCTCCCTCCCTCTTTCCCCGCCCGCGCGGGAGCCTCGTGGCTG  
CGTCACCGCCGCCCCCAGACAAGATGGACACCGCGGAGGAAGACATATGTAGAGTGTG  
TCGGTCAGAAGGAACACCTGAGAAACCGCTTTATCATCCTTGTGTATGTAAGTGGCAGTATA  
AGTTTATCCATCAAGAATGCTTAGTTCAATGCTGAAACACAGTCGAAAAGAATACTGTGAAT  
TATGCAAGCACAGATTTGCTTTTACACCAATTTATTCTCCAGATATGCCTTCACGGCTTCCAA



Table 4

TTCAAGACATATTTGCTGGACTGGTTACAAGTATTGGCACTGCAATACGATATTGGTTTCATT  
ATACACTTGTGGCCTTTGCATGGTTGGGAGTTGTTCCCTCTTACAGCATGCCGCATCTACAAG  
TGCTTGTCTTACTGGCTCCGTGAGCTCACTACTGACGCTGCCATTAGATATGCTGTCAACGGA  
AAATTTGTTGGCAGATTGTTTGCAGGGTTGTTTGTGGTGACGTGCACACTGTGTGCATTTCAT  
CAGCCTGGTGTGGTTGAGAGAGCAGATAGTCCATGGGGGAGCACCAATTTGGTTGGAGCAT  
GCTGCCCCACCGTTCAATGCTGCGGGGCATCACCAAAATGAGGCTCCAGCAGGAGGAAATG  
GTGCAGAAAATGTTGCTGCTGATCAGCCTGCTAACCCACCAGCTGAGAACGCAGTGGTGGG  
GGAAAACCTGATGCCCAGGATGACCAGGCAGAAGAGGAGGAGGAGGACAATGAGGAGGA  
AGATGACGCTGGTGTGGAGGATGCGGCAGATGCTAATAACGGAGCCCAGGATGACATGAAT  
TGGAATGCTTTAGAATGGGACCGAGCTGCTGAAGAGCTTACATGGGAAAGAATGCTAGGAC  
TTGATGGATCACTAGTTTTCTGGAACATGTCTTCTGGGTGGTATCTTTAAATACACTGTTTCT  
TCTTGTCTTGTGATTTTGCCTTACCATATTGGTCATTTCTCCCTTGTGGTTTGGGATTTGAA  
GAACACGTCCAAGCATCTCATTTTGAAGGCCTAATCACAACCATAGTTGGGTATATACTTTTA  
GCAATAACACTGATAATTTGTCTGCTGGCTTGGCAACTCTTGTGAAATTTATAGATCTCGTCGC  
TTACTGGGAGTCTGCTATATTGTTGTTAAGGTCTCTTTGTTAGTGGTGGTAGAAATGGAGTA  
TTCCCTCTCATTTGTGGTTGGTGGCTGGATATCTGTTCCCTTGGAAATGTTTGTGCTACTCTG  
AAAGATCGAGAACTGAGCTTTCAGTCGGCTCCAGGTACTACCATGTTTCTGCATTGGCTAGT  
GGGAATGGTATATGTCTTCTACTTTGCCTCCTTCATTCTACTACTGAGAGAGGTACTTCGACC  
TGGTGTCTGTGGTTTCTAAGGAATTTGAATGATCCAGATTTCAATCCAGTACAGGAAATGAT  
CCATTTGCCAATATATAGGCATCTCCGAAGATTTATTTTGTGAGTGATTGTCTTTGGCTCCATT  
GTCCTCCTGATGCTTTGGCTTCTATACGTATAATTAAGAGTGTGCTGCCTAATTTTCTTCCA  
TACAATGTCATGCTCTACAGTGATGCTCCAGTGAGTGAAGTGTCCCTCGAGCTGCTTCTGCT  
TCAGGTTGTCTTGCCAGCATTACTCGAACAGGGACACACGAGGCAGTGGCTGAAGGGGGCTG  
GTGCGAGCGTGGACTGTGACCGCCGGATACCTTGCTGGATCTTCATTCTTATTTATTTGGGAGA  
CCAGGAAGAAAATGAAAACAGTGCAAATCAACAAGTTAACAATAATCAGCATGCTCGAAATAA  
CAACGCTATTCTGTGGTGGGAGAAGGCCCTTCATGCAGCCCACCAAGCCATACTCCAGCAG  
GGAGGGCCTGTTGGCTTTACGCCTTACCGCCGACCTTTAAATTTTCCACTCAGGATATTTCT  
GTTGATTGTCTTCATGTGTATAACATTACTGATTGCCAGCCTCATCTGCCTTACTTTACCAGT  
ATTTGCTGGCCGTTGGTTAATGTCGTTTTGGACGGGGACTGCCAAATCCATGAGCTCTACA  
CAGCTGCTTGTGCTCTATGTTTGTCTGGTCAACCATTAAGGGCTGTGACGGTGATGGTGGC  
ATGGATGCCCTCAGGGACGCAGAGTGATCTTCCAGAAGGTTAAAGAGTGGTCTCTCATGATCA  
TGAAGACTTTGATAGTTGCGGTGCTGTTGGCTGGAGTTGTCCCTCTCCTTCTGGGGCTCCTG  
TTTGAGCTGGTCATTGTGGCTCCCCTGAGGGTTCCCTTGGATCAGACTCCTCTTTTTTATCCA  
TGGCAGGACTGGGCACTTGGAGTCTGCTGATGCCAAATCATTGCAGCTATAACATTGATGG  
GTCCTCAGTGGTGGTTGAAAACGTGAATGAACAGGTTTACGCAAAATGGCATCCGGAACATT  
GACCTTCACTATATTGTTCTGTAAGTGGCAGCTCCCGTGATCTCTGTGCTGTTGCTTTCCCTG  
TGTGTACCTTATGTCATAGCTTCTGGTGTGTTTCCCTTACTAGGTGTTACTGCGGAAATGCAA  
AACTTAGTCCATCGGCGGATTTATCCATTTTTACTGATGGTCGTGGTATTGATGGCAATTTTG  
TCCTTCCAAGTCCGCCAGTTTAAAGCGCCTTATGAACATATTAATAATGACAAGTACCTTGTG  
GGTCAACGACTCGTGAACACGAACGGAACTTGGCAACAAGGCTCATCTCCACCACCTC  
CACAGTCATCCCAAGAATAAAGTAGTTGTCTCAACAACCTTGACCTTCCCCTTTACATGTCCTT  
TTTTGTGGACTTCTCTCTTGGAGATTTTTCCAGTGATCTCTCAGCGTTGTTTTAAGTTAA  
TGTATTTGACTTGTGTTCTCAGCATTGAGAGAGCAGCGGTGAAGATTCTGCTGTTCTCCCT  
GGATCTTCTGACATTACTGCTGTCTGAGATTTGTATATGTGTAATAACAAGTTCCTTGATACC  
CTAAAACCTTGGATTAAACAGAATGTGCATTGTACATCTTTAAACAAAATGTATATTAATTTAT  
TAAATCTAGTTGTCACTTTATTTTGGACCTGCTGTGATCTCGACAGGAAACGTGCCACAGAG  
CAGTAGTGCGCAGGCAAGACTTTTTCAGTGACGCCTTGTGGAACGCAGTTCATGATGTCCTA  
GCAGCTCTCACTAAGGGAACTGTACATTCTTTCTTTCTTGGCTATTGAGACCTTACCAAGAAC  
GTTAAAGGAAACAAGTAGAAATCAGCAGTGGAGTGTCTGTGGTAAGAAAACATGAACCTTTAT  
GCTTCACTGTTAGTTGTTTGTGGAAGTTATTTGTATAACACCAAGCTGTTGTACATTTCTTA  
CTGCCCTGATTTTTTTCATGTGTCTGTGTTTGTATATTGTATAGTATCTTGTGCTAGGTGAGGA  
AATTATTTTTAATTTTGATAATTTAATATTCCTAGTGTGATCAGCATTGGGAGTTGGGTTTCAG  
TGGGGCATGTCTATACTTAGAGAAAAAAGTCCAAATGAAGATTTTCATGAGTCAGCCCCC  
CGCCCCCCCCACCCACACCCACATCCTCTCTTTTCCACACACAATCTGTTTATTTT  
GTAGCAGTGGCCGAAAGTCTGCAAGGTCATAAATCTTTGAGAGTGACATCACCAACTGTAC  
TGCATCTTACTGGATTTAGGACTTCTGAGATGCTTGTGAAGTATAGATGTGGTTGTGGTCTTA

Table 4

GATTGACAGCATTAGAGAAGACTGGTTAGAACATCTGGTCTCGCTGGTTAGTGCCTCGTTGG  
CTGAGGACTAGGTGTGCATTTCTCCTAGCTTTTCATCAGGAAATCCCAAAGTTTCCAAAGCTT  
TTTGTTTACAGAATAAACTTCAAATAAAACCAATTCATTATTTGTCCAGAAGGAAGCTTGGCT  
GAGCTGGCCTTTTAACATAGGAATGTATTTCTGTTGAAACATTCTGAAAAATCTCAGAGAACT  
GAACCCCTTACAAACTTTGTTTTCCCTCATAACCAAAGCTTCAGGTTAGAAGTTTAGAAAAATA  
GAATGGTTGGGTACATGATCTAAATGTTTAAATGCTAAAGGTATATCGTAAGGGTAGTGTGTTGT  
TTTTGAACGATAATTTAGAAGTTCTCATAGAAAGCGTATAACATAGGTCTTCAGAAACTATAAA  
AGAATTTTCATATAGTATTAAATCCATAGACTAAAATCTGAGAATTTTTAACATATGCAAGT  
CAGCCAAACATAAGCTACCAAATAAAGAGCAATGTGTTCTGGCTGTTTTATACTTCAACAAT  
TTTTCCCTAAGTGGTAAGCAATTACTTTAAACATATTTTTAAAAACATCGGTATCGGGAGCT  
GCGGTGGCTCCGGCCGGTGTCTGTCACACAAGGAGGCGAGGCTATGCGTTCGAGGCCA  
ACCTAGGCAAAATTGGAIAAAAAAAAAAAGTAACAGAAATAATGCTTGACATAGGATTC  
AGTGTATACTCTTTGGCACTTT

&gt;570

&gt;571

&gt;572

NNNNNNNNCAAATTCCTTTTATTGCTTTATGTCCCTGACTCATGCAGGCCAAAGGG  
TGAGGAGGAGTAATAGCCAACAAGAGCGTCTGCAGAAAGAAACAGGCTGCGTGGGTCCG  
GAGGAGCTTGAAAGGAAGAACCCGACCAAAGGGCAGGAGACCCGGCTCTCCAGGTGCGCG  
AGGCGTGGGTGCCAGCCAGGCGGAGTGCGGGGCGGGGCCCTCTCGGGCCGCAAGGTGG  
GGCCTCCTGGGCGGGAGGTGGGAGGTGAGCTCCGCCAGCCAGCCACTGCAGACAGG  
TTACCCAGGACCTCAAGGTGTGCTGCGTCACCCCGCCGCGCTGCGCTGATTGGTTCCTCC  
AGGGAGCCCCCGCCCCCTCAGCTGTAACCGGGCCGGCTTCAGTGTGCGCCGCATCTTTGTT  
GATGTGTGCTCAGCTCCGCAGGGGTTTGGGGAAACGGCCGCTGAGTGAGGCGTCCGGCTGTGT  
TCTCACCGCGGTCTTTCTCCCACTCTTGGCTGGTTGGACCCCGCTATGGAAGTTGGCC  
CCTGAGCCAGAGCTCCAGCAGCCTTGTTAGGGCGTGGCCTGAGGCTTGATAAGTGGGAT  
GTAAACGAAGATCAGGAGCAGATTTGAAGAATTACAAAGTGAATTGGTGCCAGTCAGCATG  
TCAGAGACAGACCACATAGCCTCTACTTCTCTGATAAAAATGTTGGGAAACACCTGAATTA  
AAGGAAGACTCATGCAACTTGTTTTCTGGCAATGAAAGCAGCAAATTAGAAAATGAGTCCAA  
ACTATTGTCAATTAACACTGATAAACTTTATGTCAACCTAATGAGCATAATAATCGAATTGAA  
GCCCAGGAAAATTATATCCAGATCATGGTGGAGGTGAGGATTCTTGTGCCAAAACAGACAC  
AGGCTCAGAAAATTCTGAACAAATAGCTAATTTTCTAGTGGAATTTTGCTAAACATATTTCA  
AAAACAAATGAAACAGAAACAGAAAGTAACACAAATATTGGTGGAATTAAGGTCATCTACATTT  
CCAGAATCAGCTAATGAAAAGACTTATTCAGAAAGCCCCTATGATACAGACTGCACCAAGAA  
ATTTATTTCAAAAATAAAGAGCGTTTCAGCATCAGAGGATTTGTTGGAAGAAATAGAATCTGA  
GCTCTTATCTACGGAGTTTGCAGAACATGGTGTGTTGGGGACAGGTTGTGGTGAAGGTGGGA  
AAATGGGGGGCTTTAAGGTTTAAAAAAGCCGGGTGGATTTGANN

&gt;573

&gt;574

&gt;575

&gt;576

&gt;577

cgtccgcacataTTTGTGGAGTGCCTATTACGTGCCAGAAGCTGTTCTGGACACTGAGAA  
ACAGGGGATGAAGAAGAAACAGATCCAAGCCTTCTGAGAGTAACCTCCCAGGTTTCATGG  
ATGAGGAAACTGAAGGTGCTCCTGACTCAGGCTCATGGCTCCGACCCCGGCTTCTGTGGTT  
GGAGGGCAGCACCTTACTTAGACTCCAGCGCACGTGGAGCAGTCTGCCGTCGGTTGTCT  
GGCTGCGCGCGCCACCCGGGCCTCTCCAGTGCCCCGCTGGCTCGGCATCCACCCCGAG  
CCCGACTCACACGTGGGTTCCCGCACGTCCGCCGGCCCCCCCCCGCTGACGTGAGCATAGC  
TGTTCCACTTAAGGCCCTCCCGCGCCAGCTCAGAGTGCTGCAGCCGCTGCCGCCGATTC  
CGGGATCTCATTGCCACGCGCCCCGACGACCGCCCGACGTGCATTCCCGATTCTTTTGG  
TTCCAAGTCCAATATGGCAACTCTAAAGGATCAGCTGATTTATAATCTTCTAAAGGAAGAACA  
GACCCCCAGAAATAAGATTACAGTTGTTGGGGTTGGTGCTGTTGGCATGGCCTGTGCCATC  
AGTATCTTAATGAAGGACTTGGCAGATGAACCTTCTGTTGATGTCATCGAAGACAAATTG  
AAGGGAGAGATGATGGATCTCCAACATGGCAGCCTTTTCTTAGAACACCAAAGATTGTCTC  
TGGCAAAGACTATAATGTAAGTCAAACTCCAAGCTGGTCATTATCACGGCTGGGGCACGTC  
AGCAAGAGGGAGAAAGCCGTCTTAATTTGGTCCAGCGTAACGTGAACATCTTTAAATTCATC

Table 4

ATTCTAATGTTGTAAAATACAGCCCGAACTGCAAGTTGCTTATTGTTTCAAATCCAGTGGAT  
ATCTTGACCTACGTGGCTTGAAGATAAGTGGTTTTCCAAAAACCGTGTTATTGGAAGTGG  
TTGCAATCTGGATTAGCCCGATTCCGTTACCTGATGGGGGAAAGGCTGGGAGTTCACCCA  
TTAAGCTGTCATGGGTGGGTCTTGGGGAACATGGAGATTCCAGTGTGCCTGTATGGAGTG  
GAATGAATGTTGCTGGTGTCTCTGAAGACTCTGCACCCAGATTTAGGGACTGATAAAGAT  
AAGGAACAGTGGAAAGAGGTTCAACAAGCAGGTGGTTGAGAGTGCCTATGAGGTGATCAAC  
TCAAAGGCTACACATCCTGGGCTATTGGACTCTCTGTAGCAGATTTGGCAGAGAGTATAATG  
AAGAATCTTAGGCGGGTGCACCCAGTTCCACCATGATTAAGGGTCTTACGGAATAAAGGA  
TGATGTCTTCTTAGTGTTCCTTGCATTTTGGGACAGAATGGAATCTCAGACCTTGTGAAGGT  
GACTCTGACTTCTGAGGAAGAGGCCCGTTTGAAGAAGAGTGCAGATACACTTTGGGGGATC  
CAAAAGGAGCTGCAATTTTAAAGTCTTCTGATGTCATATCATTTCACTGTCTAGGCTACAACA  
GGATTCTAGGTGGAGGTTGTGCATGTTGTCTTTTTATCTGATCTGTGATTAAAGCAGTAATA  
TTTTAAGATGGACTGGGAAAAACATCAACTCCTGAAGTTAGAAATAAGAATGGTTTGTAAAAT  
CCACAGCTATATCCTGATGCTGGATGGTATTAATCTTGTGTAGTCTTCAACTGGTTAGTGTGA  
AATAGTTCTGCCACCTCTGACGCACCACTGCCAATGCTGTACGTACTGCATTTGCCCTTGA  
GCCAGGTGGATGTTTACCGTGTGTTATATAAATTCTGGCTCCTTCACTGAACATGCCTAGT  
CCAACATTTTTTCCAGTGAGTCACATCCTGGGATCCAGTGTATAAATCCAATATCATGTCTT  
GTGCATAATTCTTCAAAGGATCTTATTTTGAAGTATATCAGTAGTGTACATTACCATATAA  
TGTAAGAGATCTACATACAAACAATGCAACCAACTATCCAAGTGTTATACCAACTAAAACCC  
CCAATAAACCTTGAACAGTGAAAAAAGAAAAAAGAAAAAAGAAAAAAGAAAAAAGAAAAA  
gttaacaatggggggcgcgagtgagaacgggcaagggccagagagacgggcccgaaggggttccccaaaaaccgg  
gccggtccgaacagggtcggtcggaac  
>578

TTGGAGCTCCACGCGGTGGCCCGCCGGGCAGGTACCTCACAACGAGTTCAGTCA  
GTAGCAGAAGGATCTTCTCTTGTCTGATGATTTCAAGGTCTCAGAGTCTGATAATCT  
GGTTCTTCCCGAACTCCCAAATATCTATGGAGAGCTGTTCTAGCTTTTGCACAGGGAACCA  
GTGGACAGAGGTATCATTAAACATGTCCATGTATTGCGAAGTCTGAGGAACTCAAGTCTCT  
CCAGTCTTTTTAAATCTTTGCAATGTAGGGATAATTTTTCTGCAGAATCCTTGCCAACAACC  
TCTCTCAAGTCTTTGAACTGTTCCCAATGATGACCATCTTAGAAAGGGCATCTACTGACC  
AGTTACTCCATAAAAGATTGTTGTACCTCGGCCGCTCTAG  
>579

acgCGTCCGCGgtcGCGTGGGTGAGCCATGTACTTCAAACAGAAGGCAGCCAATTACT  
AACTTCTGGTTGCTAGGTGTGGCTTCTTTAAATCCTATAAAATCAGAAGCCCAAGTCTCCA  
CTGCCAGTGTGAAATCTTCAGAGAAGAATTTCTTTAGTTCTTTGCAAGAAGGTAGAGATAA  
AGACACTTTTTCAAAAATGGCAATGGTATCAGAATTCCTCAAGCAGGCCTGGTTTATTGAAAA  
TGAAGAGCAGGAATATGTTCAAAGTGTGAAGTCAATCAAGGTGGTCCCGGATCAGCGGTG  
AGCCCTATCCTACCTTCAATCCATCCTCGGATGTCGCTGCCTTGCAATAAGGCCATAATGGT  
TAAAGGTGTGGATGAAGCAACCATCATTGACATTCTAACTAAGCGAAACAATGCACAGCGTC  
AACAGATCAAAGCAGCATATCTCCAGGAAACAGGAAAGCCCTGGATGAAACACTGAAGAAA  
GCCCTTACAGGTACCTTGAGGAGGTTGTTTTAGCTCTGCTAAAAACTCCAGCGCAATTTGA  
TGCTGATGAAGTTCGTGCTGCCATGAAGGGCCTTGGAAGTATGAAGATACTCTAATTGAGA  
TTTTGGCATCAAGAACTAACAAGAAATCAGAGACATTAACAGGGTCTACAGAGAGGAACTG  
AAGAGAGATCTGGCCAAAGACATAACCTCAGACACATCTGGAGATTTTCGGAACGCTTTGCT  
TTCTCTTGCTAAGGGTGACCGATCTGAGGACTTTGGTGTGAATGAAGACTTGGCTGATTGAG  
ATGCCAGGGCCTTGATGAAGCAGGAGAAAGGAGAAAGGGGACAGACGTAAACGTGTTCAA  
TACCATCCTTACCACCAGAAGCTATCCACAACCTCGCAGAGTGTTTCAGAAATACACCAAGTA  
CAGTAAGCATGACATGAACAAAGTTCTGGACCTGGAGTTGAAAGGTGACATTGAGAAATGCC  
TCACAGCTATCGTGAAGTGCGCCACAAGCAACCAAGCTTTCTTTGCAGAGAAGCTTCATCAA  
GCCATGAAAGGTGTTGGAAGTCCGCTAAGGCATTGATCAGGATTATGGTTTCCCGTTCTGA  
AATTGACATGAATGATATCAAAGCATTCTATCAGAAGATGTATGGTATCTCCCTTTGCCAAGC  
CATCCTGGATGAAACCAAGGAGATTATGAGAAATCCTGGTGGCTCTTTGTGGAGGAACT  
AAACATTCCCTTGATGGTCTCAAGCTATGATCAGAAGACTTTAATTATATATTTTCATCCTATA  
AGCTTAAATAGGAAAGTTTCTTCAACAGGATTACAGTGTAGCTACCTACATGCTGAAAAATAT  
AGCTTTAAATCATTTTATATTATAACTCTGTATAATAGAGATAAGTCCATTTTTTAAATGT  
TTTCCCAACCATAAAACCTATACAAGTTGTTCTAGTAACAATACATGAGAAGATGTCTA  
TGAGCTGAAAAATAAATGACGTCACAAGGCAAAAAAAAAAAAAAAAAAAGaaagaaaaaa

Table 4

aaagggggggggcccgcgcaaaaaatatcccccgggggggccgaagagaatcaacgcgcgtccccacgattgttctcgtgt  
gtacaaggggggtcccccaaaaaaagggaatcctgtatataataacacgcgatgcggcagggggcgcgggcggttcacaaaaga  
cagcggggcgggcgggggaaaaaaggccgacctgggggaacccctgggaacaaaaggaaacccctctcactctggggggcg  
ggggaagcacaataatgggagaacaacctcgccgagacaacaatgatatgccaacacgcccctcagcaggagacactataat  
ccacgatctccgacatggtgctgtacctacgcgtgtctatccaccagccacgccaggaatactctactcaagtggccaggcgcccgca  
gacacacttttgcgacccaccacgagcgtgctaagtaccataacgaacaacagtaacttttaccacgcgagggcaccctcgatg  
cacaacaacaaccggaccggacagcaccatgcacaccaagccaacgaataaaccaagacacacagacccaaccaaatcaacc  
aagcccggaaaccagacagacatagcagtaacaccaaccagcagcaatcacaccgaacacaacacactgacacacacagc  
atcaccacagcgccagccacagacaccacaatggcaacgcccaccaccgacactccacacacaccccgcatgacacgcacatccc  
acaccaagca

&gt;580

NNCTGTATTTTAGCAGGACTGATCGTTTTCTAAGTAGACCTGAGCTTTGTTTATCAG  
TGAAATCAAGGAGAAAAATGAGGTTAATGAAGAGGTATCAGTTAAATATCCCCTTCTTCTCAC  
CCTGCCAAAATTAGCAGTTGGATTTTTGGAAACTCTGGAATATTCTGGGTCATTTTGT  
ATGTTTGTGTTTTCTGCTTCCAAAGGTGAAAGCTATGATACAGTTCCACTTAAATTTTAGTG  
TTTTCTTACTCAGCTCAAGCATTAAATTTTGATTAAGTCTTAATCTGCATGACCTGTGAATCTG  
AATCCATCATCTCCCTTTCCTGCCAGCTTTCTACAAACATTGAAATATGTTATTTGGTCAGCA  
CTTATTTCTAGGTTACAGCCTTGGGAGGTTGTGGCATGTCCTCCAGTCTGGCTGGGAA  
GAGACCAGCTGTACCATCCAAATGCTTCCCTGCTCTTGATGATCTCTTCCAGAGTCGATCTG  
AGTGGCCTTTTCTGCACCCTCCCTTCTTTCTTTGAATGGAATTAACCCAATTTGGAAC  
AACATTGACCCAGTCAAAAGCTTCTAATGTTTCTTTTCTTCTCCTCCAGTTTGTGTTGCTTTT  
ATTAAGAAAAAGAAATAGTGCATGGCCATAGCTCCTTCAGTTCTCTTATTGCAGACTAACCAT  
CAGGATGGTATCAAAGCACAATACTTTGGAGGGGAATGCGTTGAACTGGGGCAAGTACTC  
TGTAACACAAAGTGGGAAACCACTTCTGGTGCTGCCGCTCCTGCCCCCACTTTAGTGGG  
AGGGACGAGTTTTGCCCTCTAGATTTTAATCCAGCTGGTGTCCACCGGATGTTGCCCTCCTG  
GGGAGCAGATATCAGTCTGTGGAACCTCTGGGAAAACACAGGCACATTTTTCGGTGCGGAC  
AGATTTGCCAGCACATAACTGGGCAGCCAGCTAGAATACTTTGTGGAATTAAGCGAGGTTT  
TCCATTTAGCCCCATGGTGCATGGTGGTGGCCGATGAATGTGTCAGTCTGCTCAGAGAAA  
GGACAAAAAGGAAATATTTTCAAAACTGTGTTCACTGTTTGGGTGTGTATGGCTCTGCAT  
GTGTGTGTTTTGTCTCTGTATAGGTAGAGGTATTACATCTTACTCCGACTGTAAGGTTGTC  
TTACTTCATCTCTGCCCCCACCACAGTTGCCATTTTGTAAATGTCCTTCCAACATGGAGAAGAC  
ACGAGCTCTCTCCAGTTGGCATCATTTGTCTTTTTTGTGATTGCCTCATTCTCCAGTGAAC  
CCATCTGGCCAATTGATTCAGAATCAGGCAAGATCCCTGCCCTTTGGCACATCCACTGAAAG  
GCCAAACAGCAAGTCCGAGTGAGTTTAAATATTAATTAATCACCCTTTATTTTTACACTTGA  
GAGTGATTGTAATAAGGCTGTCTAATAAATCTTGGTTCTACCTTAAAAAATAAATAATTC  
ACTGGCCGTCGTTTTACAACGTCGTGACTGGGAAAACCTGGCGTTACCCAACCTTAATCGCC  
TTGCAGCACATCCCCCTTCGCCAGCTGGCGTAATAGCGAAAAGGCCCGCACCGATCGCCC  
TTCCAACAGTTGCGCAGCCTGAATGGCGAATGGCAAATTGTAAGCGTTAATATTTTGGTAA  
AATTGCGGTTAAATTTTTGTAAATCAGCTCATTTGTAACCTGGCCGTGCGCNNNN

&gt;581

&gt;582

&gt;583

&gt;584

NAGCTACCCGCGGTGGCGGCTGAGGGACATTTCTGATCGGTTATACAACATTTGTTT  
AATAAATGCAACGAACAAAGCTACACAGGACTTAGATATTGAAGCAGAAAAGGTGTTTTAC  
AGTCCCTGCATTAACCTCTAATTCTTACTACCCTGGCCAAGAAAGCATTTTCACCTCCTGCGC  
TTTCTTCTGTGTGCTTGTGGTTGGTTCTTCTCTCAGGCTTTCTTATTCTGATGCTGAGAT  
AGTTCTGTTCACTTAGCAACTTGGGACAGTGACACAGGGTTTGTCTGTACAAGCAGGTTAT  
CCAAGAGGCATCCATACCCTGGGTTTTCTTCCAACCATAAGGAAAATTGATGCAGCTGTTTC  
TGACAAGGAAAAGAAGAAAACATACTTCTTGCAGCGGACAAATACTGGAGATTTGATGAAA  
ATGGCCAGTCCATGGAGCAAGGCTTCCCTAGACTAATAGCTGATGACTTTCCAGGAGTTGAG  
CCTAAGGTTGATGCTGTATTACAGGCATTTGGATTTTCTACTTCTTCACTGGATCATCACAG  
TTTGAGTTTGACCCCAATGCCAGGATGGTGACACACATATTAAGAGTAACAGCTGGTTACA  
TTGCTAGGCGAGATAGGGGGAAGACAGATATGGGTGTTTTAATAAATCTAATAATTATTCAT  
CTAATGTANNNNN

Table 4

&gt;585

NNNNNNNNCCGCCCGGCAGGTACGCGGGGATGACGCAAGAGCCCGCTCTCACTTT  
TCAGCGGCAGGCGAAGGGGGCTGAGGAAAGGAGGTGGGTCTAGGCAGGGGAAATTGGGG  
TGCCACCAGACGGAGACAGCTTGGACTACCAGAATCAAGCACTCTTTTGAAGAGGGTAAT  
CTCTCTCCAAAACTGAGGACACTTACCTTCCCCATATATTGAGTCCAGCTGTGTTTGGTGG  
CCCAGGTACTAATTTCAAGATGCCAGGACGTTCCAGTTCAAATTCAGGTTCAACTGGTTTCAT  
CTCCTTCAGTGGTGTAGAGTCTGCTCTCTCCTCCTTGAAAACTTCCAAGCCTGTATCAACTC  
TGGTATGGACACAGCTTCTAGTGTTGCTTTGGATCTTGTGAAAGTCAGACTGAAGTGAGTA  
GTGAATATAGTATGGACAAGGCAATGGTTGAATTTGCTACATTGGATCGGCAACTAAACCATT  
ATGTAAAGGCTGTTCAATCTACAATAAATCATGTGAAAGAAGAACGTCCAGAAAAAATACCAG  
ATTTAAAAATTATTGGTAGAGAAGAAATTTTTGGCTTTACAGAGCAAGAATTCTGATGCAGACT  
TTCAAAATAATGAAAAATTTGTACAGTTTAAACAACAGCTGAAAGAACTAAAGAAGCAATGTA  
AGTCAACATGCTTGCTTGGTTGCGCTTTTGAATTAGGGAAGTCACTTGATGAACAGCCCA  
GTTAACTTGATTTATAAAGTTGCTTATCTGCTGGGTGATCTCATTCTAGTGCCTTAATGTTGT  
GCAATCGGATTGGGTAAATTTGGTCAATCAGCTGGCATTTTGGAAGCAAGGTTCCCAAGTGGC  
CGAAATTCGAAGTGTGATTGTATTGTCCATTGCGGCGGAGGGGACGTGTGAAACAACATTA  
AGGGAAGCACATATTTCTAGCACAAAAAAGGGGAGCGACAAAGAACTCAGTGGCACCATGC  
GTACGACACTTGTAAGCGGCCACATAGGAGTATAATAAGACGGGGATCAACATAGAAAAAA  
CATCATATGTATAACCATCATGTATGGTGAACGCACTCAGACAGTTGATGTTGTAGAAATAGG  
AGTTTCGAAGTACAGGACGTAATCATAGANN

&gt;586

&gt;587

NNNCTCGTGGGCAGAGGAACAACCAGGAAGTCTGGGCTCAGTCTCCACCCACAGT  
GGGGCGGATCCGTCCCGGATAAGACCCGCTGTCTGGCCCTGAGTAGGGTGTGACCTCCGC  
AGCCGCAGAGGAGGAGCGCAGCCCGGCCCTGAAGAAGTCTGCTTGGGTGGCTGAAGTCT  
GATCTTGACCTAGAGTCATGGCCATGGCAACCAAGGAGGTACTGTCAAAGCTGCTTCAGG  
ATTCAATGCCATGGAAGATGCCAGACCCTGAGGAAGGCCATGAAAGGGCTCGGCACCGAT  
GAAGACGCCATTATTAGCGTCTTGCCTACCGCAACACCGCCAGCGCCAGGAGATCAGGA  
CAGCCTACAAGAGCACCATCGGCAGGGACTTGATAGACGACCTGAAGTCAGAACTGATGG  
CAACTTCGAGCAGGTGATTGTGGGGATGATGACGCCCACGGTGTGTATGACGTGCAAGAG  
CTGCCAAGGGCCATGAAGGGAGCCGGCACTGATGAGGGCTGCCTAATTGAGATCCTGGCC  
TCCCGGACCCCTGAGGAGATCCGGCGCATAAGCCAAACCTACCAGCAGCAATATGGACGGA  
GCCTGAAGATGACATTGCTCTGACACATCGTTTCATGTTCCAGCGAGTGTGTTCTGTCTG  
TCAGTGGTGGGAGGGATGAAGGAAATTATCTGGACGATGCTCTCGTGAGACAGGATGCC  
AGGACCTGTATGAGGCTGGAGAGAAGAAATGGGGACAGATGAGGTGAAATTTCTAACTGT  
TCTCTGTTCCCGGAACCGAAATCACCTGTTGCATGTGTTTGATGAATACAAAAGGATATCACA  
GAAGGATATTGAACAGAGTATTAATCTGAAACATCTGGTAGCTTTGAAGATGCTCTGCTGG  
CTATAGTAAAGTGCATGAGGAACAAATCTGCATATTTTGTGAAAAGCTCTATAAATCGATGA  
AGGGCTTGGGCACCGATGATAACCCCTCATCAGAGTGATGGTTTCTCGAGCAGAAATTGA  
CATGTTGGATATCCGGGCACACTTCAAGAGACTCTATGGAAAGTCTCTGTACTCGTTCATCA  
AGGGTGACACATCTGGAGACTACAGGAAAGTACTGCTTGTCTCTGTGGAGGAGATGATTAA  
AATAAAATCCCAGAAGGACAGGAGGATTCTCAACACTTTGAATTTTTTAACTTCATTTTTCT  
ACACTGCTATTATCATTATCTCAGAATGCTTATTTCCAATTAACGCCTACAGCTGCCTCCTA  
GAATATAGACTGTCTGTATTATTATTCACCTATAATTAGTCATTATGATGCTTTAAAGCTGTAC  
TTGCATTTCAAAGCTTATAAGATATAAATGGAGATTTTAAAGTAGAAATAAATATGTATTCCAT  
GTTTTTAAAGATTACTTTCTACTTTGTGTTTCACAGACATTGAATATATTAAATTATCCATAT  
TTTCTTTTCAGTGAAAAATTTTTAAATGGAAGACTGTTCTAAATCACTTTTTTCCCTAATCCA  
ATTTTAGAGTGGCTAGTAGTTTCTTCATTTGAAATTGTAAGCATCCGGTCAGTAAGAATGCC  
CATCCAGTTTTCTATATTTCTAGTCAAAGCCTTGAAAGCATCTACAAATCTCTTTTTTTAGGT  
TTTGCCATAGCATCAGTTGATCCTTACTAAGTTTTTTCATGGGAGACTTCCTTCATCACATCTT  
ATGTTGAAATCACTTTCTGTAGTCAAAGTATACCAAAACCAATTTATCTGAAGTAAATTTCTAAA  
GTATGGTTATACAAACCATATACATCTGGTTACCAACATAAATGCTGAACATTCCATATTATT  
ATAGTTAATGTCTTAATCCAGCTTGAAGTGAATGGAAAAAATAAGCTTCAAAGTATAGGTA  
TTCTGGGAATGATGTAATGCTCTGAATTTAGTATGATATAAAGAAAACTTTTTTTGTGCTAAAAA  
TACTTTTTAAATCAATTTTGTGATTGTAATAATTTCTATTTGCACTGTGCCCTTCAACTCCAG  
AAACATTCTGAAGATGTACTTGGATTAAATTAAGAAAGTCACTTAGTAAAAAAGG

Table 4

CGGCCGCTAGAACTATCTAGAGAAAAAACTCCCAACCTCCCCCTGAACNNNNNNNNNNNN  
N  
>588  
cactTTTAATTCTTATGAACCTGGGCAAAAGGATTAAAATTCTACTTTGGTATCTTTTGA  
AAGAAAACAGAAAGTGGACATTTTAACTATAAGTTTCTTATCAGCCTACAATCAGATGAAGGA  
AACTGGTAAAAATTTCTCACTGTAATAATTGAAGAGTCTGATATTCCACCATACTTATTTTATG  
GATGAAGTAATATTTGGGATAATATAAAAGACTTGCATAGATATGTATATCAAATTAATAGTTT  
AACTCGGATGTGAGCTTTTAAATTTCTTATTTAGTTATTAAGCATACTGCCTCCTGAATTAAGT  
CTTTTCATTTTCTTCAAGATCTAATTATCATGGACCTGCAACAGTTTCTTATGTGCCTGTCCCT  
GTGCACAGCCTTTGCCCTTGAGCAAAACCCACAGAAAAAGGACCGTGTACATCATGAGCCT  
CAGCTCAGTGACAAGGTTACAATGATGCTCAGAGTTTGTATTATGACCATGATGCCTTCTTG  
GGTGCTGAAGAAGCAAAGACCTTTGATCAGCTGACACCAGAAGAGAGCAAGGAAAGGCTTG  
GAAAGATTGTAAGTAAAATAGATGGCGACAAGGACGGGTTTGTCACTGTGGATGAGCTCAAA  
GACTGGATTAATTTGCACAAAAGCGCTGGATTTACGAGGATGTAGAGCGACAGTGAAGG  
GGCATGACCTCAATGAGGACGGCCTCGTTTCTGGGAGGAGTATAAAATGCCACCTACGG  
CTACGTTTTAGATGATCCAGATCCTGATGATGGATTTAACTATAAACAGATGATGGTTAGAGA  
TGAGCGGAGGTTTTAAATGGCAGACAAGGATGGAGACCTCATTGCCACCAAGGAGGAGTTC  
ACAGCTTTCCTGCACCTGAGGAGTATGACTACATGAAAGATATAGTAGTACAGGAAACAAT  
GGAAGATATAGATAAGAATGCTGATGGTTTCATTGATCTAGAAGAGTATATTGGTGACATGTA  
CAGCCATGATGGGAATACTGATGAGCCAGAATGGGTAAAGACAGAGCGAGAGCAGTTTGT  
GAGTTTCGGGATAAGAACCGTGATGGGAAGATGGACAAGGAAGAGACCAAAGACTGGATCC  
TTCCCTCAGACTATGATCATGCAGAGGCAGAAGCCAGGCACCTGGTCTATGAATCAGACCAA  
AACAAGGATGGCAAGCTTACCAAGGAGGAGATCGTTGACAAGTATGACTTATTTGTTGGCAG  
CCAGGCCACAGATTTTGGGGAGGCCTTAGTACGGCATGATGAGTTCTGAGCTGCGGAGGAA  
CCCTCATTTCTCAAAAGTAATTTATTTTACAGCTTCTGGTTTACATGAAATGTTTGGCGT  
ACTGAGACTGTTACTACAACTTTTTAAGACATGAAAAGGCGTAATGAAAACCATCCCGTCCC  
CATTCTCCTCCTCTCTGAGGGACTGGAGGGAAGCCGTGCTTCTGAGGAACAACCTCTAATTA  
GTACACTTGTGTTGTAGATTTACACTTTGTATTATGTATTAACATGGCGTGTTTATTTTGTAT  
TTTTCTCTGGTTGGGAGTATGATATGAAGGATCAAGATCCTCAACTCACACATGTAGACAAAC  
ATTAGCTCTTTACTCTTTTCTCAACCCCTTATATGATTTTAAATAATTCTCACTTAACTAATTTGT  
AAGCCTGAGATCAATAAGAAATGTTCAAGGAGAGAGGAAAGAAAAAAATATATGCTCCACAA  
TTTATATTTAGAGAGAGAACACTTAGTCTTGCCTGTCAAAAAGTCCAACATTTTATAGGTAGT  
AGGGGCCACATATTACATTCAGTTGCTATAGGTCCAGCAACTGAACCTGCCATTACCTGGGC  
AAGGAAAGATCCCTTTGCTCTAGGAAAGCTTGGCCAAATGATTTTCTTTTCCCCCTG  
TAGGACTGACTGTTGGCTAATTTTGTCAAGCACAGCTGTGGTGGGAAGAGTTAGGGCAGT  
GTCTTGAAAATCAATCAAGTAGTGAATGTGATCTCTTGCAGAGCTATAGATAGAAACAGCTG  
GAAAACATAAGGAAAAATACAAGTGTTCGGGGCATACATTTTTTTTCTGGGTGTGCATCTG  
TTGAAATGCTCAAGACTTAATTTTGCCTTTTGAATCACTGTAAATGCCCCCATCCGGTTC  
CTCTTCTTCCCAGGTGTGCCAAGGAATTAATCTTGGTTTCACTACAATTAATTAATCACTCCTTT  
CCAATCATGTCAATTGAAAGTGCCTTTAAACGAAAGAAATGGTCACTGAATGGGAATTTCTTTAA  
GAAACCCTGAGATTAAAAAAGACTATTTGGATAACTTATAGGAAAGCCTAGAACCTCCAGT  
AGAGTGGGGATTTTTTTTCTTCTTCCCTTTCTCTTTGGACAATAGTTAAATTAGCAGTATTAG  
TTATGAGTTTGGTTGCAGTGTTCTTATCTTGTGGGCTGATTTCCAAAACCATGCTGCTGA  
ATTTACCAGGGATCCTCATACCTCACATGCAACCACTTACTACCAGGCCTTTTTCTGTGTC  
CACTGGAGAGCTTGAGCTCACACTCAAAGATCAGAGGACCTACAGAGAGGGCTCTTTGGTT  
TGAGGACCATGGCTTACCTTTCTGCTTTGACCCATCACACCCCATTTCTCCTCTTTCCCT  
CTCCCCGCTGCCAAAAAAGGAAACGTTTATCATGAATCAACAGGGTTTCAGTC  
CTTATCAAAGAGAGATGTGGAAAGAGCTAAAGAAACACCTTTGTTCCCAACTCCACTTTAC  
CCATATTTATGCAACACAAACACTGTCCTTTTGGGTCCCTTTCTTACAGATGGACCTCTTGA  
GAAGAATTATCGTATTCCACGTTTTTACCCCTCAGGTTACCAAGATAAATATATGTATATATA  
CCTTTATTATTGCTATATCTTTGTGGATAATACATTCAAGGTGGTGCTGGGTGATTTATTATAAT  
CTGAACCTAGGTATATCCTTTGGTCTTCCACAGTCATGTTGAGGTGGGCTCCCTGGTATGGT  
AAAAAGCCAGGTATAATGTAACCTTACCCCAAGCCTTTGTAAGCTCTTGATAGTGGATATA  
CTCTTTAAGTTTAGCCCCAATATAGGGTAATGGAATTTCTGCCCTCTGGGTTCCTCATTT  
TTACTATTAAGAAGACCAAGTGATAATTTAATGCCACCAACTCTGGCTTAGTTAAGTGAGA  
GTGTGAACGTGTGGCAAGAGAGCCTCACACCTCACTAGGTGCAGAGAGCCAGGCCTTAT

Table 4

GTAAAAATCATGCACTTGAAAAGCAAACCTTAATCTGCAAAGACAGCAGCAAGCATTATACG  
GTCATCTTGAATGATCCCTTTGAAATTTTTTTTTTTGTTTGTGTTTAAATCAAGCCTGAGGC  
TGGTGAACAGTAGCTACACACCCATATTGTGTGTTCTGTGAATGCTAGCTCTCTTGAATTTGG  
ATATTGGTTATTTTTATAGAGTGTAACCAAGTTTTATATTCTGCAATGCGAACAGGTACCTA  
TCTGTTTCTAAATAAAACTGTTTACATTTCATTATGGGGTATGTATGACCTTCATTTTCCAAGAA  
ATAGAAGTCTAGCTTAGAATTATGGATGCTCTAAAATGTCAGAATGGGAAGTCTCCTTGAAGT  
TCTCCCAAAGTCTAGAGACAGCACTGCCTTCTCCTAAATGATTATTCTTTTCTCCCTGTTTTCT  
GGTATTTTCTAGCATCCTTCTCACCACAGCCATAACCCCTTTTTTACTTCCATTAGGCCGTATA  
ACTGGAGAGACCTGCTGCTCGTTATATAATTATCTGATACCAAACACAAGCGATTCTGAATGT  
ACACACACGTTTATCTATAGAGCATAAAGGTAAAACAATTTTGTAAACATTTTGGTATTGTTTA  
CAAATGTTATTAACCATGCAAATTCATTTTGAAGAACCTCGAGAGAATtaacctATTAACCTTTAGT  
AAACACACAGTTTAAAGACAAATATAAAGGTTTAGCCAAATGCAACGGGGAGGAAGCACCTGG  
ATAATTTGTGCTTGCTCAGGGGCTTGTTGGACATGGCTGTTCTGCCAAAGCTGTAGCAGTT  
ATCCAAAAGTTCTTTCAAAGTCAATTTGGGGCCACTGAgttttttggTTTTTgttttTTTTTCT  
TTATGCTCTCCCATTCTAAAGTGTTCCTTAAGTTTGTCTAATTACAGCATatcatcatcagaatgg  
atccccagca  
>589  
>590  
>591  
CGACCCACGCGTCCGCGCGAATCCGTCGCGGAACCTGTCTTCTGTCTTTACCCAGA  
GCTACCATGAGCAAGCGGAACCGGATCGTACGTGCGGCCAGCCGAGCCGGCGTTTCTG  
GCCCGCTTCAAGGAACGGGTGCGCTACAGGGAGGGACCCACCGTAGAGACTAAGAGAATT  
CAGCCTCAGCCCCCAGATGAAGATGGGGATCAGGTGACAAAGAAGATGAACAGCCTCAAG  
TGGTGGTTTTAAAAAGGGAGACCTGTCAGTTGAAGAAGTCATGAAAATTAAGCAGAAATA  
AAGGCTGCCAAAGCAGATGAAGAACCAACTCCAGCCGATGGAAGAATCATATCTGCTCAAAACC  
AGTCAAGCATCCCTCAGATGAAAAATATTAGGTTTAAACAGCAAGCTCAAAAAAGAAGAAGC  
CAAATGAAGATGAAGTAAATCAGGACTCGGTCAAAAAAGAACTCACAAAAACAAATTAATAA  
GTAGCCTCCTTTCTTTTGACAACGAAGATGAAAATGAGTAAGTGTAATATTTTGAATTTAGTC  
TACTTTGAAAGTATATGGAGTGTTCAATTAATACATTTTTCTATTATAAAGATACTACAA  
GTTCTTTATAGAAAGTTTAGGAAATAGAGAAAAAATTTAATAAACTACATCTATTCAATCAATA  
CCCCTCTGACTTAAATGCCAACTCTATAGAAATTAGCTAGTATTAACATTTTGTATTTCCT  
TGTGTGGTTGTATATATATGTAAATTATTTTTAAGCAAAATACATTTTTGTGTGTAACAAA  
ATTTTATAAATACAAGTATTGCAATGTTCTTTGTCCTGCTTCTCACTTGACATTGCATTAT  
GAGTATCTTCCAGGTCAGTAAATTTCAAAAACCTGACATTAATAGCTACAGATAATTTCTATA  
ACATCTCATTGTATCTTTTTCATTAGCAATAGCTCCACTTTGGGTGGGGGAGATGATAATGTG  
CCTTGTTAAAAATACCTCCCAACTCCTGCTAAGGGTGGCCATGAGACTCAGCTCTGGCAAG  
TTAAGAAATACAGGTGGAATTCTGCTTGATAAAGCTGCTGGGTTTTTTGTTACAAAAGGACAG  
ACTTGGCAAACATGAGCCTTTGCTCTTATCTTTTCATCCTACTTGGAGTGCAGAGATAAAACC  
TGAGTACCTGCCGGGCGACCGCCACCGCGTGGAGCTCAA  
>592  
>593  
>594  
CTGGAATTCTTTTAGCGTGGTCTCGGCCGTTTTTTTTTTTTTTGATTTTTTAGGAG  
CTTTTATTGTTTTAGTAATCTTAACATAACTTAAATAAGAGAGGGGAAATGACATCTGGAGAT  
CTAGGTATGTGGCCCATTTGCAATTGAGCACATTTCTTGGGTCTGTTTCTCTATCTTAAGGG  
GAGTCTCAAAACCCAGCTCAAAATACGACACTAACATCATGAACATGCATGAGCTTTGAAA  
AGTGCTCTGTAGTCTTATGATGATCTAGAAGAGCACTGTCCAATAGAAGTTTCTGTGATGATG  
AAAAGATTCTACTTCTGACCTATTCAATAGGGTAACCACTAATCATGCATGGCTCTCAAGCAC  
TTGAAATGTTGCTAGTGTGATTGGGGAGCTGCGTTTTGAATGTTAACTAATTTAAATTTAAATC  
TTAAAAAGTTACATGTGGGTAGTGGCTGCCGTACGGAACAGTACAGCACTAGTAATGCTG  
TGTCCTCCTGTACACATACTCATGGTCTCTCCTACTCTCCCTTCATCACACCTGTGACATCT  
TGCAATTTATATTTGATTGTGTCATTATCTAATGTATTCCTCCTGGACTCTAAGCTCCAAATGA  
ACAAATGCTTTGTCTACTTTGCCATAACTGTGTCCCAAGTGCTTGGCATGGGACCTGGTGCA  
GAGTAAATACATCATAAATATTTGTGAATGAATGAATGAATGAATGACCATGATTAATAAAG  
GATATAGCTGCTCAGTCTGGTGCTGATAATGGTGGTAGTCAAAAGGGTTAAACCACAGG  
TCATTAATGAAAACAGCTAACTTAGTGCTTACAGGAACCATACACTCCCTGTGTATAACAT

Table 4

GCCGGTGTGTGTGTACAGGTGTGTGTGTGCAAAAGCATAATAATGTGTTTGCAAAGGTTTGC  
 ATTTGTGTAGTCATGTGTAGACATGTATGCTCATGTGTTTTGTGTCAGGATAATAAGGTGAC  
 TAAGACTAAGACACATGCAAATCACCCAGGAAGGCAGTTTCTAAGTCATTACTTTTTATTTTG  
 AAGGATTTGTGAACTCTTCACATCATGGTAATCATACAACTCTCACCATGATGTGAAGAGT  
 TTCACAAATCCTTCAAATAAAAAAGTAATGACTTAGAACTGCCTTCCTGGGTGATTTGCATG  
 TGTCTTAGTCTTAGTCACCTTATTATCCTGACACAAAAACACATGAGCATACATGTCTACACA  
 TGA CTACACAAATGCAAACCTTTGCAAACACATTATGCTTTTGACACACACACCTGTACACA  
 CACACCGGCATGTTTATACACAGGAGTGATGGTTTCTGTAAGCACTAAGTTAGCTGTTTT  
 CATTTAATGACCTGTGGTTTAACCCCTTTGATCACTACCACCATTATCAGCACCAGACTGAGC  
 AGCTATATCCTTTTATTAATCATGGTCATTTCATTTCATTTCATTTCACAAAATATTTATGATGT  
 ATTTACTCTGCACCAGGTCCCATGCCAAGCACTGGGGACACAGTTATGGCAAAGTAGACAAA  
 GCATTTGTTTCATTTGGAGCTTAGAGTCCAGGAGGAATACATTAGATAATGACACAATCAAATA  
 TAAATTGCAAGATGTCACAGGTGTGATGAAGGGAGAGTAGGAGAGACCATGAGTATGTGTAA  
 CAGGAGGACACAGCATTATTCTAGTGCTGTACTGTTCCGTACGGCAGCCACTACCCACATGT  
 AACTTTTTAAGATTTAAATTTAAATTTAGTTAACATTCAAACGCAGCTCCCCAATCACACTAGC  
 AACATTTCAAGTGCTTGAGAGCCATGCATGATTAGTGTTACCTTATTGAATAGGTCAGAAGT  
 AGAATCTTTTCATCATCACAGAAAGTTCTATTGGACAGTGCTCTTCTAGATCATCATAAGACT  
 ACAGAGCACTTTTCAAAGCTCATGCATGTTTCATCATGTTAGTGTCGTATTTTGAGCTGGGGT  
 TTGAGACTGCCCTTAGAGATAGAGAAACAGACCCAAGAAATGTGCTCAATTGCAATGGGCC

&gt;595

&gt;596

NCTACCCACCTTTCCCCCCCCGCTTTGGACCCTCCCCGTCTGCCTCCCTTTCTCCTG  
 CCCCACATTTTAATTTGCCCCACCCACAATTTTCAGTACAATTCATTTTATTTTAGTGCA  
 ACAAAACATTTCCAGATTTTATTTCCAATTTTCAGTTTCAAACAACTGACCTGAAATTTTAGT  
 ATTTACTATCTGTGACAATGACCAATAAAATGTGTAAGAATATAAAAAATAAATTCATTTCATTG  
 TTGGTAGTACTCCAAATTCATGCATAAGAACCTTTTCTATCTAAAGCATTTTCCTAAAAGTGC  
 AAATAAAAAATCTGATATTTAAACATTTATGTGGTAAATAATCTCATTTGATTATGGATATCA  
 TAAATAGAATATAAAAGATATTACATTTCTTCAAATACCATTGTTTCACTGTGTTCAATTTTGA  
 GTTTCTTAACATCCATTCTACAGGTCAATCAAATACAAAGGCGTGCAAATGAAACAAGCTAT  
 TGAAATGAAATAAAATTCAGAATAAAAGTTAGAATTAACCTATGAGGTAACTTTTATGTAAGC  
 AAACATCACAGTTGTAAGAAATGCCTCTCTTTACAAAGAGTCATTAAAGATGCGCATTTTCCTA  
 GAGCTATTATTTTCATGTGCCCAAAATCAAGCAAAATAAAATCCCATGCTTCTGGAATATTAA  
 ATACCATGCAGTGACTATTTAAGAAAAGAACAAAGTTAACTAACTAAAAGCAGAACTCACTT  
 ATTTTTTGTCCCTAGCCAATTAATAAATAAGTTTCATTAAAAGCACTTGAAATTTATATTTAACC  
 TGAAAAAAAGTTGCTAAAATTCATATAAATGTAAATATCTTTAACTTGCTTAACCCAGCTAT  
 CCCCAAAACAGTGTAAGTGGGGCAAATGTTCAAAGAAAAATCATCCAGTGACGTCAGATGG  
 GCACCAAGAAGCTAAGCTTCCCTGAGCGCGTACAGAGCCGCCAGGCGACTCAATTCAGTG  
 CTCCTTTTCTGGGGATGAAAAGGTGCTCACCAGATCTTTCTATGCAACTGAGAGCTCCTAAA  
 TCAAGTCAAAGGGGACCATCGTACTGAAATTTCCATATTTCCAGTGGTCCACCAGCTGGG  
 CTCAGAGGCCAGGAGCTGTTCCCTTGCCAGGCTGCAGACCAACCTGAATTTACAGCTTTTA  
 ATGTTCTTATGGTACAGAGTGGTGAGGATGGAAGCCATTAGAGCCTGATGAAATGGAACA  
 GAAACTCCCATTTTCTGTCACTGTCACTTCTGTAAATCAAATCACCTTGAATAAAATTA  
 AATGTGCCCTTCTGTAGTTACGATATAAGTCAGGTGCAACCTGAGGCATTGCACAGTACCTG  
 CCGGCCCGCGCGCGGGCCCGGAGGTACATTTGTTTTGCCAGCCAATCACTCTTT  
 TTTGTGAGGAGCCTAAATACAN

&gt;597

NAGTCGACCCACGCGTCCGGTGAGCACCGCCCGGGAACATCTCGGGGAGCCTGGT  
 TGGAAGCTGCAGGCTTAGTCTGTGCGGCTGCGGGTCTCTGACTGCCCTGTGGGGAGGGTCTT  
 GCCTTAACATCCCTTGCAATTTGGCTGCAAAGAAATCTGCTTGGAAGAAGGGGTTACGCTGTT  
 TGGCCGGGCAGAACTCCGCTGAGCAGAACTTGCCGCCAGAATGCTCCTCCTGTTGCTGAG  
 TATCATCGTCCCTCCACGTCGCGGTGCTGGTGCTGCTGTTTCGTCTCCACGATCGTCAGCCAT  
 GGATCGTGGGCAATGGACACGCAACTGATCTCTGGCAGAACTGTAGCACCTCTTCTCAGG  
 AAATGTCCACCAGTGTCTCATCATCACCACGAATGGCTGCAGTCTGTCCAGGCCACCA  
 TGATCCTGTGTCATCTTTCAGCATTTCTGCTCTGTTTCTGTTCTTCTGCAACTCTTCAACC  
 TCACCAAGGGGGGAGGTTTACATCACTGGAATCTTCAAATCTTGCTGGTCTGTGCGTG  
 ATGAGTGCTGCGGCCATCTACACGGTGAGGCACCCGGAGTGGCATCTCAACTCGGATTACT



Table 4

CCTACGGTTTCGCCTACATCCTGGCCTGGGTGGCCTTCCCCCTGGCCCTTCTCAGCGGTGT  
CATCTATGTGATCTTGCGGAAACGCGAATGAGGCGCCAGACGGTCTGTCTGAGGCTCTGA  
GCGTACATAGGGAAGGGAGGAAGGGAAAAACAGAAAGCAGACAAAGAAAAAGAGCTAGCC  
CAAAATCCCAAACCTCAAACCAAACCAACAGAAAGCAGTGGAGGTGGGGGTTGCTGTTGATT  
GAAGATGTATATAATATCTCCGGTTTATAAACCTATTTATAACACTTTTTACATATATGTACAT  
AGTATTGTTTGCTTTTTATGTTGACCATCAGCCTCGTGTTGAGCCTTAAAGAAGTAGCTAAGG  
AACTTTACATCCTAACAGTATAATCCAGCTCAGTATTTTTGTTTTGTTTTGTTTTGTTTT  
GTTTTACCCAGAAATAAGATAAAGTCCATCTCGCCCTTCCCTTTCATCTGAAAGAAAGATACCT  
CCCTCCAGTCCACCTCATTTAGAAAACCAAGTGTGGGTAGAAACCCCAATGTCCAAAAG  
CCCTTTTCTGGTGGGTGACCCAGTGCATCCAACAGAAACAGCCGCTGCCCGAACCTCTGTG  
TGAAGCTTTACGCGCACACGACAAAATGCCCAAACCTGGAGCCCTTGCAAAAACACGGCTT  
GTGGCATTGGCATACTTGCCCTTACAGGTGGAGTATCTTCGTCACACATCTAAATGAGAAAT  
CAGTGACAAACAAGTCTTTGAAATGGTGCTATGGATTTACCATTCCTTATTATCAGTACATCT  
AAACAACCTCACTGGAAATCCAATTAACAATTTTACAACATAAGATAGAATGGAGACCTGAATA  
ATTCTGTGTAATATAAATGTTTATAACTGCTTTTGTACCTAGCTAGGCTGCTATTACTAT  
AATGAGTAAATCATAAAGCCTTCATCACTCCCACATTTTTCTTACGGTCCGAGCATCAGAAAC  
AGCGTCTAGACTCCTTGGGACCGTGAGTTCCTAGAGCTTGGCTGGGTCTAGGCTGTTCTGT  
GCCTCCAAGGACTGTCTGGCAATGACTTGATTGGCCACCAACTGTAGATGTATATATGGTG  
CCCTTCTGATGCTAAGACTCCAGACCTTTTTGTTTTGCTTTGCATTTTCTGATTTTATACCAAC  
TGTGTGGACTAAGATGCATTAAAATAAACATCAGAGTAACAAAAAAAAAAAAAAAAAAGGGGG  
GGGCCGTAAANNNNNNNNNNN

&gt;598

CCACGCGTCCGCTCTCAAAAAATTTTTAAATTAGGGTGGTGGTGACACCTATGGT  
CCCAGCTGCTTGGGTGTCTTAGGCGGGAGAATCACCTGAGCCAGGAGTTTGGGGTTGCAA  
TGAAGTATGACCACACCACTGCGCTCCAGCCTAGGCAACAGAGCAAGACCCTATCTCTTAA  
ATCAGTTCATGATGGATATTGTGGCTTCAGATGTGAAAGAAAAGATACGGGGCTAAAATTC  
GTATTTTCACTGTATTCTGGTAACCACTAATCCAAGCAGTAATTTTTGAAATGTGAAGTTA  
GAATATATTCTAAATAAAATACGTGCAACCTCCAGTGGGAACCTCTTATTATTGGGGGAGGTA  
GTAGGAAAGGCGCTGGGTGTTCTAAAATAGGCTCTCCTGGCCACGGCTGACTGTCTTCCT  
TGTGTCTCTGCAGTGGACGTGACTCTGGACCCAGACACGGCCTACCCAGCCTGATCCTCT  
CTGATAATCTGCGGCAAGTGCGGTACAGTTACCTCCAACAGGACCTGCCTGACAACCCCGA  
GAGGTTCAATCTGTTTCCCTGTGTCTTGGGCTCTCCATGCTTCATCGCCGGGAGACATTATT  
GGGAGGTAGAGGTGGGAGATAAAGCCAAGTGGACCATAGGTGTCTGTGAAGACTCAGTGTG  
CAGAAAAGGTGGAGTAACCTCAGCCCCCAGAATGGATTCTGGGCAGTGTCTTTGTGGTAT  
GGGAAAGAATANNNN

&gt;599

NNNNNNNGCAGGGGCGCTTACGGAAGTGTAACGTTGAGGCCCTTCTTGTTGTATCTG  
GAGAAAAATAGAGTTCTGACTCCTCAGGAGCAAAAAACATAACCTGAAGAGGAGGAAGTG  
GATTTGGGGTTCACCATTTCTTGGGGCACACTTGATTGAAAACCTGAGACTTCTGAAGAGAAG  
GCCAGAAGATACAAAGACAGACCATCCCAGTTGAATGCTGTCTTCCAAGAACAGAGAAAAT  
GATCCAGGCCCAGGAATCCATAACACTGGAGGATGTGGCTGTGGACTTCACTTGGGAGGAG  
TGGCAACTCCTGGGCGCTGCTCAGAAGGACCTGTACCGGGATGTGATGTTGGAGAACTACA  
GCAACCTGGTGGCAGTGGGTATCAAGCCAGCAAAACCGGATGCACTCTTCAAGTTGGAACA  
AGGAGAACAACCTGTGGACAATTGAAGATGGAATCCACAGTGGAGCCTGTTGAGACATATGG  
AAAGTTGATCATGTGCTGGAGCGCTTGACAGAGTGAAAGCCTGGTGAACAGAAAGGAAACCAT  
GTCATGAACATGATGCATTTGAAAATATTGTTTCATTGCAGCAAAAGTCAGTTTCTGTTAGGGC  
AAAATCATGATATATTTGACTTACGTGGAAAAAGTTTGAATCCAATTTAACTTTAGTTAACCA  
GAGCAAAGGCTATGAAATAAAGAACTCTGTTGAGTTTACTGGAAATGGGGACTCCTTTCTTC  
ATGCTAACCATGAACGACTTCATACTGCAATTAATTCCTGCAAGTCAAAAACCTCATCAGCA  
CTAAGTCCCAATTCATCAGTCCCAAGCATCAGAAAACACGAAAATTAGAGAAGCATCATGTG  
TGCAGTGAATGTGGGAAAGCCTTCATCAAGAAGTCTTGGCTAACTGATCACCAGGTAATGCA  
TACAGGAGAGAAACCCACAGATGTAGTCTATGTGAGAAAGCCTTCTCCAGAAAGTTTCATGC  
TTACTGAACATCAGCGAACTCATACAGGAGAAAAACCTTATGAATGCCCTGAATGTGGCAAA  
GCCTTTCTCAAGAAATCACGGCTCAACATACATCAGAAAAACACATACCGGAGAGAAACCTTA  
TATATGCAGTGAATGTGGAAAGGCTTCATCCAGAAAGGAAATCTCATTGTACACCAGCGAA  
TTCATACAGGTGAGAAACCTTATATATGCAATGAATGTGGAAAGGCTTCATTGAGAAGACGT

Table 4

GTCTCATAGCACATCAGAGATTTACACACAGGAAAGACGCCCTTTGTGTGCAGCGAATGTGGA  
AAATCCTGTAGGCTAGGTACGAGGCTTGGTGTGAATTCGGCCGAGGCACAGGAGAGAAAC  
CCTTTGAATGTAGTGAATGTGGGAAAGCCTTTACACAAAGCAAAAGCTCATTGTCCATCAAA  
GGA CTACACAGGAGAGAGACCCTATGGCTGTAACGAGTGTGGGAAAGCGTTTGCATATAT  
GTCGTGTCTGGTTAAGCATAAGAGAATACACACAAGGGAGAAACAAGAGGCAGCCAAGGTG  
GAAAATCCTCCTGCAGAGAGGCACAGCTCATTACACACCAGTGATGTCATGCAGGAGAAAAA  
CTCTGCTAACGGGGCGACTACACAAGTGCCTTCTGTGGCCCTCAGACATCATTAAACATCA  
GCGGCCTCCTCGCAAACAGGAACGTAGTCCTTGTGGGACAGCCAGTGGTCAGATGTGCAG  
CCTCAGGAGATAACAGAGGATTTGCACAGGACAGAAACCTTGTGAATGCAGTGAATGTGGTT  
GTGCCCTCCGTGATCAATTATGTCTTATTTTATGTTACAGAAAACCCATAGGAAGAAAACTCA  
GATCTATGTGGAAAAGGGTTGAGCAAAAATTTGTAGTTTATTATGTGGCCGAAAAGCATACA  
CTGAGAGAACATGTATAAGGCTGAGATAGCCTGATAAACTCATCCTATTAATGATGTGCTGT  
GATACACAGGCAAAATTTGATGTTAACCTAAGCACATACACAGCAATTGCTCGACTGTGCAAT  
TAAATGAGTAAAGGAAGCCCAAGTACTTTTAAAGTGGGAGGAAAATGACGTACCTGTGCAATC  
TTTTACAGCAGATGAGATAATTGCTGTTCCGGAGTGTGTCAGTGGACTGAAAAGCTTCATGA  
GGGGCATTGGTGGGGAAGGGGTAACTCTGTAATGGTGGCATGTGCGCACCTTTGTTTCACT  
CCGTTTCCTTAACCATGCCCCCTGGGGGATATTGACACCCGACCTTCTTGAATTGTTTGC GC  
GGTTTGGACCCCTCTTTCACCTTTTATTCAAAAACACCGCTTCGTGGAAGAAAACCGCT  
CTTCCCCTAGAGGAACGCN

&gt;600

NNNAAGAAGTCTGAGGAGAGGGAAACGGAATGCTCGGTGCCCCCACACCTGGCC  
CACCGCGGTACGGTCTAGCCTATTGGCCCCACCGGTCTGCCCGCCCGGGGCCTGCACCA  
GCCAGGCCCTCCGGCCCGACGCCCGCGGGGGGAGTCGACGCAGTCGCTTTCGCT  
TTCGCTCGGGAACGGGTGCAGGAAGGTCCCGCGCGCCGCCATCTCGCGCTCGTCCCGCG  
GGGTGCCCGGGGCGTTGCTCAGGCCCGCCACGGCGCCGGGGGAACTCTTCGGCAACCCG  
TCCATGTGCCCCGAGCCCAGGGATCCGTTACGTGGTGAGGCTCCATCGCGCTCATGGCG  
GCCATGGGGCCCTCCGGGCCAGGGCCGAGCGGGAATAGCCCTGCCGGCGCCCTGCC  
GATGGGTTTCATAGTGTACATGTTTTCGTGGAGTTGGTGAATCTCCAGGGCTAGGC  
ATGATGGGTGTTCCAGGGGGCCACCTCCTCCTGGGGGTCCGGTGTAGCTGCCGGGGGAT  
GAGGAGGAGTAGGGGATCGAGTTTCACTGGGGCTGGCCACGGGCCACGAACTCCTGGG  
CCCATGTTTCATGGCAGGCAGGCCTGGGCCCGCGAGGGAGTTGGGTGGGGGTGCGATGCC  
ACCTCCATAGCTCTGGGGCCCCACGCTGGCCATGCCACGAGGAGGCGTCACCTCTGCATT  
GGGCCGCCCATGCTCGGATGCCCTGGGCTCGTGGGGAGGGCTCCATGGCGCCAGGGAG  
GAGGGGCTGGGAGCCAGGGAGGCCTGCGGGAGGCTGACTCGGCATCCGCAGGGTGGGCC  
GGGGGCCCCCTGGGAAGCGCGGTGACATGAAGGGCTGGAAGAAGCCAGCCGCCATGGAG  
CCTGCGGCCATTGTGTACCTGGGGCCATACTCCCCATAACGGGGCTGGGGGCGGCTGCA  
GCACTATAGTCTGGAAGGCCTTGGCCTCGCCGGAGTGCTCGCAGGCCTCTTCTGTGAG  
GCGCCGCGCAGTACAGGTCCCAGAAAGACGCACCACAGGAGTGCAGGAACCCAGGGGGC  
TCCCCAGCGTGATGTTCTTCTCCCATCGGATCTCAGACAGGAAGGTCTGGGCTGACTTCT  
GGGCACCGATGTGCAGCAGGTA CTATAAACGTACAGCGCCAATTCTCGCGGGCCTGGCT  
GTCGGAGGGCACGGCCGAACCTTGCCCCCTTGGCGTACATGCTGCTCCACGCCGCCGC  
CGCCGGGGCCACACCTGTCAGGCGGCGCGCGGGGCCGCGCTTCCGTCGCCATAGCTA  
CCCCGCGCCCCGGGCCTACCGCCCCGAGCCCCAGGCGGGCACGGCAGGCATCGTCCGC  
GCGGGGGAGCTCCAGACGGCGCGCGGGCGGGCAGCGGGCGGCTCCAGCTCCGGCCC  
CGGCCGCAGGGTGGCTTTTTTCTCCCTTCTCCTCGCGCGGGCTGTTCCGGGAAACGCGC  
GCTCCCCTCCTCCCGCCGCGCGCGCCCCCGCCGCTGCCTCTCCGCCGCCCGCGGGCGC  
AGCTCTTAAAGGGGCGATGGCGGGCGCGCGGGTGGGTNCCNNN

&gt;601

NNATAAGAACTTATGGGATTTCTACACGGAGACAAAAAAGATATTCCTTTATGTTG  
TTTAAAGTGGCAGCTGCTCTTTCTTTATTCCATTTAATCAATGAGTATTGATTCAAGTTTTC  
CTTTCTATTTTCTTATGATAAGTTTCTTACAGTAGCTTATACAACAACAAATAGCATAGAAA  
AACTACTGGATTCAATTGATCATCAGGAATAAGTTCTCAGAAAAACACAGGCGGAAAAATAAG  
CAAGAATCCCAAATACAGAACTTTACAAGCTGTGAACTTGGTCTCTTGAATCATGTTACTG  
CTCAAATTAGAGACAATCTTATTGCTGTCTATTGGAGCAGCATCGTGGCAGATCAGCAGGCA  
ATGATGATGTTGAGAACAGCAGCAAAAATAACAATCGTATGCTCATGAAGAACCCAAGCCT  
ACAAAATGGATACCTTTCAGAAAAGTATATACTTAAAGACCCAAGACGTCAGGATAATAAAG

Table 4

CTCTGTATTTATAATCTTTTATATGTCCTATTGTGGCTATTATGCTTAAGTAAAATAGCTAAAG  
AAAAAAAAGAAAAAAAACAGAAAAGATGACAATATCATAAAAATGTAGCTGTCTATTTTGG  
CAGCTATATTGCAGAATTTCTTGACTATCTTTTAATCAGCTGGGAAAAAGTCAATAACTGTAT  
GCAAATGAATAAACTGTCCATATCAAAATACAAAAGTACTATCAATAATCACCTCTGACTTTCA  
GATTTAAATTCAGTGCAATTGACAAATGCATCACTAAAGGAAAATGCAGCTTAAAAGATACTC  
AAAACATTTGTGTCTATTCTGGGAGCACATTTTAAAATTATTGCACAGATTTTTTAAATTTTA  
TTTATTTTTTTTAAACAATAACAGAGGTCAACCACAGATGTGGACCTCCAGCAATAAAAGCAG  
GAATTCAAGTGCCAGATACTCAGCATATTAGGTTTCTACGTAAGTCACAGGGTAATATGTTT  
TAAATATCTCTAATGTGATCCAAAACCTAAAAAGAGCTGGCACAAAACCATCGTGAATGACT  
GCCTCTCTTGATGTAAATTTTTAAAAATATTATTACAGTATCATAGTCCCCACTAACAACAACT  
GGGGTACATATAACAATGTATTGTGAAATTAAGTGTATTTATTCTTTTACCAATAGCAAATGC  
TACCCTACCTTAGTAAAACCAAGACTTGCTTCAATCAATGCTGTTTTGTAAAAATAGCAAAGC  
AACGAATGCTGAAATCAATCAAAGCTGCATTACTTGGGTTAAATCAGTTTCTACTTAGAACAC  
AGGTTAAAAATTTTAGTACTAAAAGGCCTCAAAATAATTAGTGACAGAAATAGTGTATTTAATTT  
GCTAAGCTCAACAATAAGCAATTCCTTAATTAATTAATCTTCGAGATATAAATTTGATGACTATTC  
TCTTCAGAAATGACATACCTGGATTATGTTAATCATGACAAGCCTTATTAGTCACACATATAAA  
CATGGCCTCATGCAATCATTTGTCTGTATATGTTACTCTAAGTTGCATGAGCACAAAGGTTTAA  
TATCTATATCTTTAAGAAAAACTTGATATTATAAACAGAGTAAAAGACATGATATAGTAGTGA  
TTACTAAAAAAAATAAATTAGCAGCTTAAATCTATCTATATTTGAAAAAACGTAGTCACAAGT  
ACCACAAATGCAGAATCAGAGCAGCAGGAAGAAGGTTAGTGCAATTATACTTTTCAATAAAAAA  
AATTCTGAATCACTGCTATTTAAAAACACCTTGAAGCAAGTCTTTTGTGAGATTGTTTTTA  
AACTAAGGTAGCAAACATTTTGCCATGTAATGGCAGTGTTATATGCCGTTATCTTGCTTTGTA  
TAAAGAAAAACAACATGAGAGATTTTAAATACTGGAGTTGGGTTACATTACATATTTAAGCTTCT  
ACACAGAATGATGGACACTTCGAGAAGCTAATCCTTATCCAGAAACANNNNNNNNN  
>602

caCGCGTCCGCCACGCGTCCGccccgCGTCCGCGCCCCGCCcatacCGCCgaGGCTG  
CCGCCGGAGTCGCCACCGCCGCGCCCTCGCCACCCGCCCGCCCGCCGCTCCCGGCCCC  
GCTCGCCCCCTCCGCCGCGCGCCGCCCCGCTCGGACTACGCTGCGGCCTCCCGCCCGC  
TCCCGTCCGCTCCCGCGGCCCTCGCTCGCTCGCGCCGCGCAGTTTTGGGCCTACACCTCC  
CCTCCCCCGCCAGCCGCCAAAGACTTGACCACGTAACGAGCCCAACTCCCCGAACGCC  
GCCCGCCGCTCGCCATGGATGCCGGTGTGACTGAAAGTGGAAGTAAATGTGACTCTCACCAT  
TCGGCTTCTTATGCACGGAAGGAAGTAGGAAGCCGAATGGTGAGAGTCACCATTCGGCTT  
CTTATGCACGGAAGGAAGTAGGAAGCATCATTGGGAAGAAAGGGGAGTCGGTTAAGAGGA  
TCCGCGAGGAGAGTGGCGCGCGGATCAACATCTCGGAGGGGAATTGTCCGGAGAGAATCA  
TCACTCTGACCGGCCCCACCAATGCCATCTTTAAGGCTTTGCTATGATCATCGACAAGCTG  
GAGGAAGATATCAACAGCTCCATGACCAACAGTACCGCGGCCAGCAGGCCCCCGGTCACC  
CTGAGGCTGGTGGTGCCGGCCACCCAGTGCGGCTCCCTGATTGGGAAAGGCGGGTGTAA  
ATCAAAGAGATCCGCGAGAGTACGGGGGCGCAGGTCCAGGTGGCGGGGGATATGCTGCC  
AACTCCACCGAGCGGGCCATCACCATCGCTGCGTGGCGCAGTCTGTCAACCGAGTGTGTCA  
AGCAGATTTGCCTGGTCATGCTGGAGACGCTCTCCAGTCTCCGCAAGGGAGAGTCATGAC  
CATTCCGTACCAGCCCATGCCGGCCAGCTCCCCAGTCATCTGCGCGGGCGGCCAAGATCG  
GTGCAGCGACGCTGCGGGCTACCCCATGCCACCCATGACCTGGAGGGACCACCTCTAGA  
TGCCCTACTCGATTCAAGGACAACACACCATTTCTCCGCTCGATCTGGCCAAGCTGAACCAGG  
TGGCAAGACAACAGTCTCACTTTGCCATGATGCACGCGGGGACCGGATTGCGCGGAATTGA  
CTCCAGCTCTCCAGAGGTGAAAGGCTATTGGGCAAGTTTGGATGCATCTACTCAAACACCC  
ATGAATCACCATTCCAAATAACTTAATTGGCTGCATAATCGGGCGCCAAGGCGCCAAGGCG  
CCAACATTAATGAGATCCGCCAGATGTCCGGGGGCCAGATCAAAATTGCCAACCAGTGGA  
AGGCTCCTCTGGTAGGCAGGTTACTAACACTGGCTCTGCTGCCAGTATTAGTCTGGCCCAG  
TATCTAATCAATGCCAGGCTTTCTCTGAGAAGGGCATGGGGTGCAGCTAGAACAGTGTAG  
GTTCCCTCAATAACCCCTTTCCAAACCAACAACCTTTGTCTTAATCCAGCTATGTTTGCTAATA  
ACGAAATGCATGCACTTCCACATATATACTTCACTGAGCCTCTGCATTCAGTACCTGGCAG  
TGAAAAAGTATGCTTTCCCAACAAGTCAGTACTGGAGAATAAAAATGAGAACTCCAACATAAG  
AACAATGCCTCCTTACCCCAAGTAATGTTATCCACATTTTCCCTACCCTCACATTAGAATAAA  
GACATCCTCCCAACTTTTCATCTCCTATCTCAATCTGTTCATAGGAGATATATCTTTGATOT  
TTTATTATAAGGGTAAATATAGATTACAAATCAAAATCCAATTTACATGTGGCACTAGG  
AAAATGGAATGCTATAAAATTAATCCCATCACCCAAGTAGGGATGCTGGTGCTTTTATACTG

Table 4

AGTCTTTACTGCCAATAAGTGATGCTGCCTCCAAAGGAACAGCTCTACAGAAAGTTTTTGGG  
TTAGTGTTTCCCTAGCTTATTTCTGCAATGGAGAAAGACAATTTTCATATCAAAAAAAAAAAAAA  
AAAAAACCTGGAAAAGCTACAGATGTTAACCTTTACTTTAAACACCAATAAAATAGGTGTCAA  
AGGAGAAAAAATGTAAAAAAGAGCTCCCAAACAGCCTGAGAGACCAAAATCTGCAATGG  
AAATTTTAAAGCCCACTGAATACATTTTTCATGGATCCAAACAAATGCTACAATACTTTAAGT  
CCTCAACTCACAGAATTAAGAGCCCTTAAGCTGTTAACTTTGTCCTGTCTTCTATTGAGAAA  
AATGTCCCCCTAGAACTGTGCAAAAGTAACGTATGGGAgaagatgcttctgccccatcagcatttaagtatt  
gttaActttatgtaataGCatttgggtggggattgtttgtTTCAGTTGTACAAAAGATAGTTGTATTATGTTAGG  
TATAATTATGACCTTATTAGTGTCTTTATTTGAAGATTATGTATGATCTCAGGAGATGTGTATG  
GGTTCAGTTGACAAGGGGTGGACTTGTGATGGTTAATACTGAGTGTCAACTTGATTGGATT  
AACAAATGCAAAGTATTAATCCTGGGTGTGTATGCGAGGGTACCTACCTGATGGgacgcaatcttc  
glccccatcagtaataattgttaaaatcagacttttctactgggttaattggttaggcctataggttttctgtgataagttcagtcctcagaaag  
caccactctgtggcatttcagggcctaaattcttaatactcttggctgggtatccaagtcctaaacactgtccacatatgattcgcacaatct  
catatctagtcatattgcagtgctgagaattgtatgtccagagaggcatgtgtggagatagggtttagagaatgtctgtaaatgtttca  
>603

atatgatagcacacaaaagtgtaaatttctggcaacactgggctggaatatttgcattgggcccacagcgtatggagcaggggt  
gtaagtgccttcttgagaggaagaatgccatatcactgtgtgctcagttctctccagcctctcacatacatgtatgcactgcctggccc  
taaggacatttgagacctccctgtgttcttcttctgtcttgggatagcctgttgggaagtgttctcaaaagaggcaagtgcatttgagcc  
cctacagtggctcaggtgtgaagcttgggtcttccccctgaggactggagtgaaagcctgtcagtgactglaatgaccaaatgaggagttta  
tttagctgtgtttagtactatCTtctGTcatgttaagggcATCTTCGTTGCTAGAGtaatttCTCTAAAATATGGAAG  
GTCAACActtttccctTTAGACTTGTGGATAGTGATGGATAAAAAAATACTCTCTTACTCTATAGTAA  
ACTTGCTCAAGTGCAAAAGTTATATTTAGCTTCAGCAATAGGAGTCTATAAACTGTGAGAGA  
AAAGCCTTACTAACTGAAGTCATCCTTCAAACCTTTCTACCAGGGGTTCCAATAGCAATTGCT  
AAGAATACGGCAGCTTAAAAAAATTTTTTTTCAATTGACAGATATTAAGAATGCCTGATATTTA  
CTGACTTGAACATTAGTTAAATTCAGTTAGGGTGACCAGAGTGTTGCTATTTGTAGAAGTGT  
GCTTGGTAGAGTCATCCAAAGTGCTTCTTAAGCTGTAATAAATATGCTTACTAATGTTTGAC  
TGCTTAATTAATGGTCAGTAAGCATTGAGTCAGAGTTTCGTTTAAATACATGGAGAAAGATATAT  
GCTTTAGATCAAGGGTTAGCAAACCACTGCTTGTGTTTGGGCCACGGCCTGTTTTGTATAGT  
TGGGAGCTAAGAGTGGGTGGTGTACATTTTTAAAGGGTTATGACAACGACACAGAATAATAT  
GAGACACAAACCCTATGTGGCCCATAAAAACCTAAAATTCTACTGTCTGGCTCTTCACAGAGA  
AAGTTTGCTGATCCCCGCTTTAGATAATGGGGGTGCTCTACTACTCCCCTTTTTCATTTATAGT  
GTTACATAAGCCTAAATAATCACTGTAGCTGGTGGCATCATGTTTGTACCTACTAAGTAGGT  
CAAAGTGATTGCCAGACATACACATGAAGGCCCTTGAATTAGAAAGCAAAGGAACCTGATGATG  
ACCAaTGTTTAACAAAATTCAGaCTGACTTTGTgCCTGATCCTTCAaAGgctagaggTGATATTTTT  
GGTACctgaaACGTAATTTccctGataagTACTCTTTGCCCAATTATTGCTTATCAGCTGAGATATT  
AATGTCTGAATTATTCAGCTCATATATCTTCAAGCACTCAACTAGTTTCATACTTTGAAATCAAT  
TCTAATAGACAATTTCTATAACACCTTTATAGTCTTCCCATTTAAAGGTAATGTTGTTAGGG  
CTGGAGGGGTAAGATGCACCCTTGGTATATTGTCTGATCTCAGCAGAATCAACTACTTGGTA  
GTGTAGTCCAGAGAAAATGGGTCAAATCTATTAATTATTTAGGATTTTGAAATTCATAATTGA  
GACTCGTGACTTAATAGTGAAGTGTCTCATGGTACTTTACCCAGTCTTCAAGTTGTATGCCTTT  
TGTAGGTAGGCATTTAGATGGGATGCTTTTGAAGCATAATTAAGAACTTTACTTGAATTTT  
GTTTATAATGGGCTAATGTTATTTTCTTATAGTTTGCAGTGTTGATGTGGGTATTTACCTATGT  
TGGTGCCTTGTTTAATGGTCTGACACTACTGATTGTTGGGTAAGTCTACAAAGCCATTGGGAT  
GAAAAATTGCTGGAAAGATTGTGTGCCAGGAGCTTAGACATTTTAGTGGAGAATATTCTCATT  
GTATGAAAAGTAGGGGATGAAAATGTGGGCCGGGCGCGGTAGCTCATGCCTGTAATCCAG  
CACTTTGGGAGGCCAAGGTGGGCGGATCACCTGGGGCCAGGAGTTCGAGACCAGCCTGGC  
TAACATGGTGAAACCCCATTTCTACTAAAAATAGAAAAAATTtagCTGGGCGTGGTgGCGCACG  
CTGTAAATCCAGCTACTCCGAGGCTGAGGCAGGAGAATCACTTGAGCCCAAGAGGCAGA  
GGTTGCAGTGAGCGGAGATCGTGCCATTGCACTCCAGGTTGGGCAACAAGAGTGAACTCC  
ATCTCAAAATAAGTTTGAGGTTGTATTCTCTTTAAATAAGTTGGTGATACTGCTTCCCGGTTTA  
TTGAAATGCTACCTTAGTTGCTGAAGACAGCTCTACTAACAACAGTGATAAACCAGATAAA  
GGGTGGCTTTATATGATGGTGCAGTCATAAATCTAACCCAGGGATACCTTTATTTTATGAAATC  
TCACTGTGATATGATTGAAGCTAGAAATGGTTCCTAGCTCTAATAACTGCAGCTCACACAG  
TTCATTCTCTCTGTGAGTGGCTCCTCAACAGCAGATGCATCCAGAGATCCTTATGTTTTTA  
TTCATTCTATTAGGAACACTGCTTGGTTATCTTGAGTTGCCAGTTAATAGTTTTTGTAGTGT  
ATTCCTCCCAATCATTCCATTCTTTTTGAAAAGTTGTATATTTCCCTTTTCAGCTCTCATTCA

Table 4

CTCTTCAGTGTTCCCTGTTATTTATGAACGGCATCAGGCACAGATAGATCATTATCTAGGACTT  
GCAAATAAGAATGTTAAAGATGCTATGGCTAAAATCCAAGCAAAAATCCCTGGATTGAAGCG  
CAAAGCTGAATGAAAACGCCAAAATAATTAGTAGGAGTTCATCTTTAAAGGGGATATTCATT  
TGATTATACGGGGGAGGGTCAGGGAAGAACGAACCTTGACGTTGCAGTGCAGTTTCACAGA  
TCGTTGTTAGATCTTTATTTTTAGCCATGCACTGTTGTGAGGAAAAATTACCTGTCTTGACTG  
CCATGTGTTTCATCATCTTAAGTATTGTAAGCTGCTATGTATGGATTAAACCGTAATCATATCT  
TTTTCTATCTATCTGAGGCACTGGTGGAATAAAAAACCTGTATTTTTACTTTGTTGCAGATA  
GTCTTGCCGCATCTTGGCAAGTTGCAGAGATGGTGAGCTAGAAAAAAGCAAGCAAGCAAGC  
CCTTTTCAGTTTGTGCACTGTGTATGGTCCGTGTAGATTGATGCAGATTTCTGAAATGAAAT  
GTTTGTTTAGACGAGATCATACCGGTAAGCAGGAATGACAAAGCTTGCTTTTCTGGTATGTT  
CTAGGTGTATTGTGACTTTTACTGTTATATTAATTGCCAATATAAGTAAATATAGATTATATG  
TATAGTGTTTTCACAAAGCTTAGACCTTTACCTTCCAGCCACCCACAGTGCTTGATTTTCAG  
AGTCAGTCATTGGTTATACATGTGTAGTTCCAAAGCACATAAGCTAGAAGAAGAAattcaa  
>604

AATTTCCAAGTGATCTGAACTAAAAATAGTTTCTTAGTAAGTGTAATATTAATTTTAGT  
TCAGATCACTTGGAATTAGGGGAACTAAGGGAACTGCAAGGGTAGAAGCAAAGAACTAT  
TTTTGTTAATTATACTGAGCAAAGTTTGCTCCAAATGAAAAGTCATTACGAACTATGTATAGTA  
CCCAAGAAAAGGTCAAATGAGTCAGAAGACTGTAAGTACCACTTTTGCGCTCCAGAGATA  
AACCTTGTACACACTGCAGTAGAACAGTGAGTCGAATATATGAGCTATAAATAGATATCATG  
TTAGTCTGGATAGCTCTGTGTTGAAATACTTTTTAATGCAGATAAAAAATTATCAGGAAATTA  
CCTTATGGCACAGACCAAATACTTAGTGCATGGCTGAGTTTCTACAATTCAGGAGCCAAAGA  
AAATAGGTTCAAGATGGAATATAGTACATGCATATAAGGCAGATGCACACATGCTGGTACTT  
TAAGATTGTGTGTTGATTAGTCACAATGATAGACTATAACATGAGACAATACAAAGTTACA  
TTTTGGACCATATTAACCTGCAAGAAGCAGGGGCTTACTGAAGATCTTTTAGAAAACCT  
AAATCCTGTACAGGATATTTAGACATGTGTAGAATGTAGCTCAATTTTTAAAAAGTAAGTGA  
CCTAGAGGGTGAAAGTTGAACTGACACATTTCAAATTAAGATTATGCTTATTTGTACAGA  
AAACAATGTTTAAACACAAGCAGATCTGTTGTATGTAATAAGTAACACAGAGTTTTAAACAAA  
TTAATTATTTAGCTTTATTGAAGTTTGTTTTTCCCTCCGAACCTGGAGTATCATATTATAAC  
AGCAGTTTACACCAGAATAGCAGTGCCCTTTCTTTTGTACATACTGATTGGACCTTTCTTT  
ACTGTTACGTGGACACTTTCTATGTTAGTTTTGATGCATAATTCTTTGAATCCTTTTATACAA  
CTAGAATGTATGTGAAGAATACCTGTCCCTGCAATGTAGTAAGTACAACTTATTTTTAAATA  
AATAGAAAACCTGTTTTTCTAAGCNNNNNNNNNNNNNN  
>605

GAGTCGACCCACGCGTCCGGGACGCTGGCGGCTCCGCGACGAGCTTTGTTTTTTC  
GGTTGGGCATGCTGCTTACCGCAGGATGATGGAAGCGACGGCCCGTACAAAGACAGAAGC  
GTTGGTTTCACTGAGTCAGTGCTGATTCTCTCAAATAGAGCTTGAAGGATAAATCTTCATTTT  
TGTTTCAACAAAACCTTCGAAACAAAATGGAAGAAAATAATCTACAGTGCAGTAGTGTGGTTGA  
CGGTAATTTTGAAGAAGTCCAGGGAGACGGCAATTCAGTTTAAACCTCCACTATACAGAC  
AGCGGTACCAGTTCGTTAAAAATTTAGTGGATCAACATGAGCCTAAGAAGGTTGCAGACCTG  
GGATGTGGTGATACTTCACTCTTAAGGCTGCTAAAAGTCAATCCATGCATTGAATTGCTTGT  
GGAGTAGATATTAATGAGGATAAATTACGATGGAGAGGGGATTCGTTAGCTCCTTTCTGGG  
GGATTTTCTGAAACCTCGGGATCTGAATTTGACCATCACATTGTATCATGGCTCCGTTGTGG  
AGAGAGACTCTCGTTTGCTTGGATTTGACTTGATAACGTGTATTGAATTAATAGAACATTTGG  
ATTCAGGTGATCTGGCCAGATTTCTGAAGTGGTATTTGGGTACCTCGGCCCAAACTCGCTG  
AGCAGGCTGAGCGATATGATGGTATGGCTGCAGCCATGAAGGCAGTCACAGAACAGGGGC  
ATGAAGTCTCAACGAAGAGAGAAATCTGCTCTCTGTTGCCTACAAGAATGTGGTAGGCGCC  
CGCCGCTCTTCTGGCGTGTCTCTCCAGCATTGAGCAGAAAACAGAGAGGAATGAGAAGA  
AGCAGCAGATGGGCAAAGAGT  
>606

atgttttgattatggtcatcagttttTTTGTTTgAgTCAAGGGCAGAAATATTTATTTTAAGATAATGT  
AAGAATGTAAGACAGGTTGCTTTGCAATTTATAATAAGAACAGTAAGTTGGAAGTTAAGCTAA  
ATAAATTGCTTATTATGAAATGATTCTGAGAAGTACCATAAACTGTTTATCATGTATGCTTTCT  
GTAAAAAGTTAATATGAATTTTATGTATAACTTAATTTTTCCAAAGAACAGTTTATAGAAGGA  
AACACTGACAATAACAGCATACATGTAGTCAGTACATTATTATTTCAAACCCTAGCAAAATTT  
TAAATTGATATAAGTAACAATTCAAGTGAATATTTTTATCTCTCATTTTATAGATGATAAAATTC  
AAGAGTGATAATATGATGGAATCACTGTAATTTACTTTCTTTTCTATTTTATCAGAACATTTAT

Table 4

TTATTCACATTTTAATATTATGTTGCAGCCTTACAAATGTTTTCATCCACTCACTCTGATAAGC  
AATAAAGAATAAAATAAAGATTGCATATGTACAATGCTATTCTTCCTTGGGAAAATGACAGAAT  
TATAAAGGATTTCAATGGGCTAATTTAATTTTTAATCTATATTTGCAGGATTTGCCATGTACGC  
AACATAGTATAACTTATAGTCAAGGATTAAGGAAAAGTGCATTTTTTTCAATTACTTTAGGTAC  
CAAATCATATTAAGAACATTCAGTGTAAGGtaaaatagacctgAGGTATGTTATATGAGTGGGTAG  
GCATTTTCATTTAGTCAGTCAATTAATCAACTTTCAAAGCAAGTGAAATTATATTCTTATACTA  
TATGGGATCCTTGAACCTATGAATAATATATTTAAAAATTACTGTCATAAATAATATTAGATAAA  
CAATGTAAAAAGTCTAACATACAAAATCAATGCTAAGAGTAACATTTTCTTGAAATAACATTA  
CTTTTATAAATAAGCTGATGCAGATCAATTTACATTTAATAACTTATAAAAAACAAAGTCAGTG  
TTTTCTAGTTTCATATGCAAAGCAAAGTAATAGTTGGAGTGTATGTAACCTACATTAATATG  
TCTTAGAAAGGAAGATAAATGAACCTATCTTCCATATGCAATATGTAAATACGTTAATTCAGAC  
TAATTGTTCTATTTTTGTGTAGTATCTTTGTATAAACTAAGCATTTTTAATTGAACAGATTTCTA  
TTAAGTATTATCAAAATTGTTCTCTATGTACAAATCTAATTTTGTGTGATTCAACAGAAAAGTTT  
TTATTTTCCCTTTTAAGACATATTTCTTTTGAATAATAAATTATATTTAAATTATTACTGGCT  
GTTTAGCATCACTTTTCAAGTGGTCCCTTTTGAAGAAAACAAAATATTAGCTTCTACTTAATAT  
ATACATCAGTCTTATAAACCATTTTATATTAGTCTTTTACAATACTCATTTGATGCTAGACATAC  
ATTAACAATATGCAGTAAGTTACAGAGTGTAAAGACGTTATTTTTACTAGTGTATTAACGTGTA  
CCACCTATGATCAGGAGCAGCTTCATGTTTAAAGAGATAATGACAATGACAATGATTACTGTT  
ACAACAACCTACCAGTCTTCTACTATCAACACATGACTTTTTTGGGGGAGGAAAATTCTACACT  
TTAAATTTCTTTACCGTATACATAAAACAATAACAGACATTCTGTTGACTTTGGCAAATAAACA  
ACAATTTTTAAAACTTTATACAAGTCAAACAACATATGTTAATTAAGTACTTTTAAAAGTTAAA  
AGTACACGTAACAATTGTTTTATATAGTAGCTTAATTTCTATTTCTTTTCAAATTTATCTCAGT  
GTAATTAATAAACTGGGCAAATAACAGGAATTTAATTTCTAAGGGTATTATAAATCTCAAGCAATA  
TTCATCTCTGAAAATAAGTTCCACAGTCCAAAATCAAAGAAAATGCGATGTTTCATTTTAGGCG  
ATCAACATTCATGAGTCATAAATTATTTGAAATGAGGAAAATTTCTAATGAATAAATAAAAA  
AATAATATTGAAAGTACCTGCCCGGGCGGCCGCGGAGGTACGAAATTGGGATGACATGAA  
ACACCTGTGGGACTACACATTTGGACCAGAGAAAATTAATATAGATACCAGAAATGTAAAT  
CTTACTCACAGAACCTCCTATGAACCCAAACAAAACAGAGAGAAGATTGTAGAGGTAATGT  
TTGAAACTTACCAGTTTTCCGGTGTATATGTAGCCATCCAGGCAGTTCTGACTTTGTACGCTC  
AAGGTTTTATTGACTGGTGTAGTGGTAGACTCTGGAGATGGTGTGACTCACATTTGCCAGTA  
TATGAAGGCTTTTCTCTCCCTCATCTTACCAGGAGACTGGATATTGCTGGGAGGGATATAAC  
TAGATATCTTATCAAGCTACTTCTGTTGCGAGGATACGCCCTCAACCACTCTGCTGATTTTGA  
AACGGTTCGCATGATTAAAGAAAACTGTGTTACGTGGGATATAATATTGAGCAAGAGCAGA  
AACTGGCCTTAGAAAACCACAGTATTAGTTGAATCTTATACACTCCAGATGGACGTATCATCA  
AAGTTGGGGGAGAGAGATTTGAAGCACCAGAAGCTTTATTTTCAAGCTCACTTGATCAATGTT  
GAAGGAGTTGGTGTGCTGAATTGCTTTTTAACACAATTCAGGCAGCTGACATTGATACCAG  
ATCTGAATTTCTACAAACACATTGTGCTTTCTGGAGGGTCTACTATGTATCCTGGCCTGCCATC  
ACGGTTGGAACGAGAACCTAAACAGCTTTACTTAGAACGAGTTTGAAGGGTGTATGTGAAA  
AACTTTTCTAAATTTAAGATCCGCATTGAAGACCCACCCCGCAGAAAGCACATGGTATTCCTG  
GGTGGTGCAGTTCTAGCGGATATCATGAAAGACAAAGACAACCTTTGGATGACCCGACAAGA  
GTACCAAGAAAAGGGTGTCCGTGTGCTAGAGAACTTGGTGTGACTGTTTCGATAAACTCCAA  
AGCTTGTTCCTCATACCCGTAATGCTTTCTTTTTCTTTATTGCCAATCTTTGAACCTATT  
CAACTCCAGGACATGGAAGAGGCCTCTCTCTGCCCTTTGACTGGAAAGGTCAAGTTTTATTCT  
TGGTGTCTTGGGGAAGCTTTGTTAAATTTTTGTTAATGTGGGTAATCTGAGTTTAAATCAACT  
GCTTCCCTATATAGACTAGAGGGCTAAGGATTCTGTCTGCTGCTTTGTTTCTTCTAAGTAGGC  
ATTTAGATCATTCCTGTAGGCTTCTATTTTCACTTTACTGCTCTAATGCTGCTAGTCGTAGTC  
TTTAGCACACTAGGTGGTATGCCTTTATTAGCATAAAACAAAAAACTTTAACAGGAGCTTT  
TACATATTACTGGGATGGGGGGTGGTTCGGGATGGGTGGGCAGCTGCTGAACCTTTAGGG  
CATTTCTCTGTAATGTGGCGCTTTCAACTGTACTGCTGCAGCTTTAAGTACCTTAAAGCTTC  
TCCTGTGAACCTTCTAGGGAAATGTTAGGTTTCAAGTAAAGTGTGTTTGGGTGGGTTTTGTTG  
CGGGGGGGAGGGTAACAATGGGTGGTCTTCTGATTTTTATTTTGGAGTTTTGTCAACTGGA  
GTACGTAGAGGAACCTTTATTTACAGTACTTTGATTTGGCAGGTTTTCTTCTACTTGTGCTCTG  
CCTGGAGCTGTTTCCATATGATATAAAAGCAAGTGTAGTATTCCATTACTATGTGGCTTAGG  
GATTTATTTGTTTTTAAATCAACCATGTTAGCTGGGATTAGACTCCCTACAGTCTTCAATG  
GAAAAGTAACATTTAAATCCTTTGGGTAAATTAACAGATTTAAAGAGCTTAAGATCT  
GGTGTGTTTGTAAATGCTTCTGTTTATTCCAGAAGCATTAAAGTAACCCATTGCCAAGTATCAT

Table 4

TCTTGCAAATTATTCTTTTATATAACTGACCAAGTCTTAATAAAACAAGCAGGTAAGTACAAAT  
 AATTACTGGCAGTAGGTTATAATTGGTGGTTTAAAAATAACATTGGAATACAGGACTTGTTC  
 CAATTGGGTAATTTTCATTAGTTGTTTTGTTTTGTTTTGATTGAAACCTGGAAATACAGTAAAA  
 TTTGACTGTTTAAATGTTGGCCAAAAAATCAAGATTTAATTTTTTTATTTGACTGAAAAACT  
 AATCATAACTGTTAATTCTCAGCCATCTTTGAAGCTTGAAAGAAGAGTCTTTGGTATTTGTAA  
 ACGTTAGCAGACTTTCTGCCAGTGTGAGAAAATCCTATTTATGAATCCTGTCGGTATTCTT  
 GGTATCTGAAAAAATACCAAATAGTACCATACATGAGTTATTTCTAAGTTTAAAAAATAAAAA  
 GAAATTGCATCACACTAATTACAAAATACAAGTTCTGGAAAAAATATTTTTCTTCATTTAAAA  
 CTTTTTTTAACTAATAATGGCTTTGAAAGAAGAGGCTTAATTTGGGGGTGGTAACTAAATCA  
 AAAGAAATGATTGACTTGAGGGTCTCTGTTTGGTAAGAATACATCATTAGCTTAAATAAGCAG  
 CAGAAGGTTAGTTTTAATTATGTAGCTTCTGTTAATATTAAGTGTTTTTGTCTGTTTTACCTCA  
 ATTTGAACAGATAAGTTTGCCTGCATGCTGGACATGCCTCAGAACCATGAATAGCCCGTACT  
 AGATCTTGGGAACATGGATCTTAGAGTCACTTTGGAAATAAGTTCTTACATAAATACCCCGAGC  
 CTTTTGAGAACGGGGCTTGTTAAAGGACGCGTATGTAGGGCCCGTACCTACTGGCAGTTGG  
 GTTCAGGGAAATGGGATTGACTTGGCCTTCAGGCTCCTTTGGTCATAATTTTAAATATGGG  
 AGTAGAAAACAACAAGAATGGAATGGACTCTTAAACAATGAAAGAGCATTATCGTTTTGTC  
 CCTTGAATGTAGAATTTGTTTTGATTTTATAATTCTGCTGGTAAATGTGACAGTTAAATGGT  
 GCATTATGTATGTATATAATTTAGAAAATACCATTTTATAATTTTACTATTCCAGGGTGACAT  
 AATGCATTTAAATTTGGGATTTGGGTGGAGTATTATGTTTAACTGGAGTTGTCAAGTATGAGT  
 CCCTCAGGAAAAAAAAAAAAAAAAAATTCTGTTTTAAAAAGCAATCTGATTCTTAGCTCTTGAA  
 CTATTGCTACTTAAATTTCCAATAATTAATAATTTTAAATTTTAAATTAGaATTGCCAATACTT  
 CTACATTTGAGAAGGGTTTTTTTTAGAAATACATTTagtAAAGTcCcCaAGACATTAGTCTTACAT  
 TTAACCTTTTTCTTTAAACATGgtTTGGtGGTTAACTTTACACAGTTCTGAGTACTGtAATA  
 TCTGGAAGTATCTTGAgatCagtGGAAAGCTAAAcagtCTAAATTAACATGAAATACtCATTT  
 GATTGagaaATAAAATCagaTTTTTTTCAAAGtcaaacc  
 >607

NNNNNNNNNATCGCACCATGGGACGTTCTACGTACGCGCGAATTGAACATCTAAG  
 CTGTTCCCCCCTCGAGCAGATCATACCAAGACCGCGAAATTCGTATGCCAACATATCGA  
 AGTATCAGTCGCGGACCGGACAGCCCGATTCTGCCATGTACGGGCAGCTGTCCGGGCTG  
 CTTTCGCCTCCGCCTGTGGATGCTGCGCCTCTCCGAACGCAACATGAAGGTGCTCCTTGCC  
 GCCGCCCTCATCGCGGGGTCCGTCTTCTCTGCTGCTGCCGGGACCTTCTGCGGCCGAT  
 GAGAAGAAGAAGGGGGCCCAAAGTCACCGTCAAGGTGTATTTTACCTACGAATTGGAGATG  
 AAGATGTAGGCCGGGTGATCTTTGGTCTCTTCGAAAGACTGTTCCAAAAACAGTGGATAAT  
 TTTGTGGCCTTAGCTACAGGAGAGAAAGGATTTGGCTACAAAAACAGCAAATTCATCGTGT  
 AATCAAGGACTTCATGATCCAGGGCGGAGACTTCACCAGGGGAGATGGCACAGGAGGAAA  
 GAGCATCTACGGTGAGCGCTTCCCGATGAGAACTTCAAACCTGAAGCACTACGGGCCTGGC  
 TGGGTGAGCATGGCCAACGCAGGCAAGACACCAACGGCTCCAGTTCTTCATCACGACAG  
 TCAAGACAGCCTGGCTAGATGGCAAGCATGTGGTGTGTTGGCAAAGTTCTAGAGGGCATGGA  
 GGTGGTGCGGAAGGTGGAGAGCACCAAGACAGACAGCCGGGATAAACCCCTGAAGGATGT  
 GATCATCGCAGACTGCGGCAAGATCGAGGTGGAGAAGCCCTTGCCATCGCCAAGGAGTAG  
 GGCACAGGGACATCTTTCTTTGAGTGACCGTCTGTGCAGGCCCTGTAGTCCGCCACAGGGC  
 TCTGAGCTGCACTGGCCCCGGTGCTGGCATCTGGTGGAGCGGACCCACTCCCCTCACATTC  
 CACAGGCCCATGGACTCACTTTTGTAAACAACTCCTACCAACACTGACCAATAAAAAAATG  
 TGGGTTTTTTTTTTTTTAAATAAAAAAAAAAAAAAAAAAGGGGACAATAAGAAAGGTACCCAAT  
 TCGCCCTATAGTGAGTCGTATTACAATTCAGTGGCCGTGTTTTACAACGTCTGACTGGGA  
 AAACCCCTGGCGTTACCCAACCTTAANN  
 >608

NACGAGGGGTACCGCCTCACTCCCACGCGCCCCCAGCGCCGCGGTGCGCGGCA  
 GCTGAGAGAACAGACACAGACCTGTGCGGAAGGTCTCTGCAGGTCCCCCTTCCGCTCTGCC  
 GATCGACTTCCGCCTCGGGCAGTCAACATACTGCCAAGGAAATCTGATGTGGAAGGAAAA  
 TAGAAATAGTGAGTTTGTAGCCGGACACGCCAACTCTTCGTTTCGATTATTAGCTTTAGTGA  
 AATGGGCTAATAATGCTGGCAAAGTGGAAAAATGTGCGATGATTTCAAGCTTTTTAGATCAG  
 CAAGCCATCCTGTTTGTGGACACTGCTGATCGCCTGGCCTCGTTAGCTAGAGATGCTCTGGT  
 CCATGCACGCCTGCCTAGTTTTGCCATCCCATATGCCATTGATGTACTAACTAGTGGATCTTA  
 CCCACGGCTGCCAACCTGCATTAGGGATAAAATTATTCCTCCAGACCCAATTACCAAAATTG  
 AAAAAACAAGCCACACTCCATCAGCTGAATCAGANNNNNN

Table 4

&gt;609

NNCGCCGCCGGACCGCGCCCCACCCGCGCGCCCGAGCAGGGCGACTGTCATTA  
GCTTCCTGGACGGGACCCGGGGCGGGATCCTGGTGTCTGAAAGGGGGCCCGGGCGACCC  
TAAGAGGAAGAACTTTTGGGGGCGGGGTCCCCGGTCCCGCGTCCCCTGGGCAGCCGCTAT  
TGTCTACGCGCCTCGCTGGGCGGCGCGGGGGCGTGATCGCGGCGGCCCGGGCTCTGG  
GTGCGGAGACCCAGGCGGGGCTGGGCCAGGGCGGCGGGGAGAGCCGGGGGAAGCC  
GAAGAGCCTGGGGAGGAGGAGCTGCGAGCGCGGGAGACGAGCAGGAGCCGCGGGCC  
GCGGCGAGCGCGATGCCGGCGGCGGGGGACGGGCTCCTGGGGGAGCCGCGGGCGC  
CTGGGGGCGGCGGCGGCGGAGGACGCGGCCAGGCCCGCGGCGGCTGCGAGGGAAG  
TTTCTGCTGCTGCTGGGTGAGCGGCGTGCCCCGCGAGCGGCTCCGCGACTTCCAGCACC  
CAAGCGCGTGGGCAACTACCTCATCGGCAGCAGGAAGCTGGGCGAGGGCTCCTTTGCCAA  
GGTGCGCGAGGGGCTGCACGTGCTGACCGGGGAGAAGGTGGCCATAAAAGTCATTGATAA  
GAAGAGAGCCAAAAAGGACACCTATGTCACCAAAAACCTGCGGCGAGAGGGTCAGATCCAG  
CAGATGATCCGCCACCCCAATATCACTCAGCTCCTTGATATTTAGAAACGGAACACAGCTA  
CTACCTGGTCATGGAGCTGTGCCCTGGGGGCAACCTGATGCACAAGATCTATGAGAAGAAG  
CGGCTGGAGGAGTCCGAAGCCCGCAGATACATCCGACAGCTCATCTCTGCCGTAGAGCAG  
CTGCACCGGGCGGGGTGGTCCACAGAGACTTGAAGATAGAGAATTTGCTACTAGATGAAG  
ACAATAATATCAAGCTGATTGACTTTGGTTGAGCAACTGCGCAGGGATCCTGGGTTACTCG  
GATCCGTTTACGACACAGTGTGGCAGCCCTGCCTACGCTGCACCTGAAGTCTCGCCAGGA  
AGAAATACGGCCCCAAATCGATGTCTGGTCCATAGGTGTGAACATGTATGCCATGTTGACC  
GGGACGCTGCCTTTCACGGTGGAGCCTTTCAGCCTGAGGGCTTTGTACCAGAAGATGGTAG  
ACAAAGAAATGAACCCCTCCCACTCAGCTTCCACAGGTGCCATCAGTTTCTGCGCTCT  
CTCCTGGAACCGGATCCTGTGAAGAGGCCAAATATTAGCAGGCACTGGCGAATCGCTGGC  
TTAATGAGAATTACACGGGCAAAGTGCCTGTAAATGTCACCTATCCCAACAGGATTTCTCTG  
GAAGATCTGAGCCCGAGCGTCTGCTGCACATGACCGAGAAGCTGGGTTACAAGAACAGC  
GACGTGATCAACACTGTGCTCTCAACCGCGCCTGCCACATCCTGGCCATCTACTTCTCTT  
AAACAAGAACTGGAGCGCTATTTGTCAGGGAAATCTGACATCCAGGACAGCCTCTGTACA  
AGACCCGGCTCTACCAGATAGAAAAGTACAGGGCCCCCAAGGAGTCCATGAGGCCTCTCT  
GGACACCTGGACACGAGATCTTGAATTCATGCCGTGCAGGATAAAAAGCCCAAAGAACA  
GAAAAAGAGGGGATTTTCTTCATCGACCATCTCCAAGAAGTTGGACAAGAACCTGCCCTC  
GCACAAACAGCCCTCAGGCTCGCTTATGACACAGATTGAGAACACCAAGCCCTCTGAAG  
GACCGGAAGGCCTCAAGTCCAGCTTCCCCGACAAAGATTCTTTGGCTGCCGCAATATTTT  
CCGCAAAACCTCAGATTCCAATTGTGTGGCTTCTTCTTCATGGAGTTTATCCCCGTGCCAC  
CGCCCAGGACCCCGAGGATTGTGAAGAAACCGGAGCCCCATCAGCCAGGGCCCGGAAGCA  
CTGGCATCCCCACAAGGAAGACCCCTGATGCTGGACATGGTGCGCTCCTTCGAGTCTGT  
GGATCGCGACGACCACGTAGAAGTGTGTCTCCCTCTCATCACTACAGGATTCTGAAGTCCC  
CGGTCAGCTTGGCTCGCAGAAATCCAGCGAGAGGACGCTGTCCCCGGGTGCTGCCATCCG  
GAAGCATGTGCGCTCTCCATACTCCTTTGCATCCAACCTCTGGTCTCTTTTGTACGAAGATA  
AGAACAGCCCCCAAAAGAGGAGGGCCTGTGTTGCCACCTCCGGTTCAGCAATGGCC  
CCATGCAGCCTCTGGGGAGCCCCAATTGTGTGAAAAGCCGAGGCCGGTTCCTATGATGGG  
CATCGGACAGATGTTAAGGAAGCGCCATCAGAGTCTGCAGCCATCTGCAGATAGGCCCTG  
GAGGCCAGCCTGCCCCCACTGCAGCCCTAGCCCTGTGAACCTTGCTTTGACATGGCCG  
ATGGGGTCAAGACCCAGTGCTAACTTGGGCCAGCGGGGTTTGGGGTATCTCTAGAAAACAG  
CAACTGAACAGAGCTCCACACATCTGTGAGGGTGTGAGCACTCCAAGGCCTCGCGTGGAGC  
ATCCTTAGTCCCACCTGTAGCTGAATCCACAGACCCAAAGCCTGCACAACCCAACTCGCTT  
AGGGACCCCCAGAGATGCTGGAATCGCTAGGAGGGTGGCTCCAGGGGCGAGCCAATTCT  
ATCATTAGATCTTCTTCTCCCAAGTACTACCAACCCCTTCACTTCCACTTCCCCAG  
GCTTGGGGGAAAAACAGGGCATGAGCCTTCTGGGGCACTCAGATTATGGACTGTTACCAGA  
TCTTCTTACGCTGTGCTACATGTGTGCTCTCACAGCAGTTGGCCACAGTTACAGGGAGA  
GAACAATATCACAGTCATTATCCAGGCCACGTTTCTCTGCGGAGTGTAGCAGCCCTGCCT  
TTCATAGCAGGGATTACCTGAAGGCCAGCAGGAGCCGGGGGCGAGGCCAGGATCCTCAGA  
GGAAGATGGAGAGGAGCTTCGGACCAAGATCAAAACCAACAGTGGGGACCCCAACAGAAG  
AGAAAGATCAAGGAGACACTATTTCCCAAGCAAGATTTTATAGATTTTGTGTTGTTGT  
TGTTGAAACATGCTAATGATTGAATTATCTTTTCCAAAGATTTTTTTAAATGTGATGTCGGTA  
AATTGAAATAACATAATTTTTTAAACTTGGATGGAGAGATGAGAAGCAATCCACCAAACTC  
ATGTTTTACAGGAGGGTTCACTGTGGAGAGCAAAAAGCTGACTGTGGTGATTGCTGAGT



### Table 4

GCTGTGGCCACACAGGCAGGGCAAGTCTCGGTGGCCCTGTGTTTCATCCTGTTGTTTAAAGGCA  
 TAGCCCTGATCCTTCTGGAAGGCATAGAACACGGTTACAGCTGGTTCGTAGAAAGAGGGA  
 AAAGATGATTGTGACAATTCAGAGCATAACTCAGATGGCGAGAAGGCAGCATTATCTCTGTG  
 CGATGCTGATTTCAGCTGCCACAGAACTGGTGC GGCTCAGAGCTCGGCAGAGTTTCTGTG  
 GAGCTGGGAGCAGGCTTGCTTGCCTGGCAGAGAACCTGTTTCAGATACAGGCCAGTTTCTTCTCG  
 AGGAAAGCCAAGCTCCTCAAACAGGGTTTCAGTCCACGTTGTGTTTTACACCTTTCTCCAAG  
 GATCGAACCAAAGATGTGTCTCCAGTATTGTGTCTGTGCCCTGTGTGTGTTTTGTGGACAG  
 CCGTGTGTTGTCTGACTGTATCCAGCTGGCACTTGACAGGGTGCAGTCATTGGTGAGAAGAAT  
 CAGAAAAGAAAGACCCATCAGCACAGGTTGGATAGGGGTTAGTGAGGAGACCAGTTACAG  
 AATGGCCTGGAGTCTTCAACTTTTGACCGGTGCAGGTGTGACCAGAGACCACCTCTGTGGC  
 CACCTCAGATAGTCATCTCAGTCCAAGGATCCCAAAACACAAATCTAGAATTGCAAAGCCAG  
 CCTTTATTTCCCTGGCAGGCAGCCTTGCCAGAAGGCAGAGAGGCAGTTCTGAATCATTCTCT  
 CATTACCAGTGGTGACATCCTTCAGTCCCTCACATCTGCACAGAGCGGGACAGAATGGAT  
 ATTTGGCTGACCTTGGTGAGACCTGGAGCTGCCTGCTTTCTCCCTAGGGGATCACCACGGC  
 TCTAGGGCATTCTAGGATGAGGTGAGACCCCTTGCCATTGGCTGTTATTTTTGTATAGCTTC  
 AGACTGGGTTCCAGAACTTACCATTGAAAACAGAGCTTTTAGGCCAGGTGTGGTGGCTCACA  
 CCTGTAATCCCAGCACTTTGGGAGGCCGAGGCAGGTGGATCGCTTGAGCTCAGGAGTTCTGA  
 GAGCAGCCTGGGCAACATGGTGAAAGCCCGTCTCTACCGAAAAATACAAAAAAAATAGCTG  
 GGTGTGGTGGTACGTGCTGTAGTCCCAGTACTTCCGGGACAGTGGGTGGGAGGATCACTT  
 GAACCTAGGAGGTGAGGCTGCAGTGCAGTGCAGCAAGATCATGCTACTGCACCTCGACGTTAGGT  
 GCAAAGTGAGACCCTGTCTCCAAAAAAGAAAATAGAGCTTTATAAGCAGAGAGAAGAAAAT  
 AATCATCTAAGACCATCTCTCCATTGCACATGAAGTGTACCTTTTCTAAAGACGGTTTCCAGC  
 TGCAACGGCTCCACTTTGCGAGGCTTGCAAGGTGTATACCTGCGCATTTGGGAACCTGCTGGA  
 ACCCTGATGCATTTTCTTGAGAGCAGGGGTACTTCCGCTTGCCGTTAGCTTGTGGAGAA  
 CGTGCTTTCTATTCTGCGAGGCTTCAAGAACAGCTGCACATGTGCGCGCTAACTGACCCGCT  
 TGCCATTGGCGACCTGGACTCTGAACCTCAGGTTTATTCTAAACCCAGTGAGAGGTGAGGGG  
 GAGTGATGAAAGGGGATCAGCTGTATTTGTGTGTGTGTGTGTGTGTGAGCACCTGACAAATC  
 TATGAAACCCGAGTGAAAGGAGAAATGTTAGATTCTTTATTTATTTATTTATTTATATGAAAG  
 CTCGACTCTCCCTTTGGTAAGTCCGAAGCATGTTGTCTGTTGACCGTGACTGTCTCTCTCA  
 GTCTGTGCTGTGATTCCAGTACCCTGTAGTTACTGACAGAAATGACTGGACTGTCTCATTTG  
 GTGGAAGTCTAGGAGGAAATGTCCATTTTAATTGTATGATTTGGTCATAAGTAAGGACTATAT  
 TTATGTCACCATATTAGATATATGTACTTTTGAATGACTGTGAAATACACTTTTCCCTCACT  
 ACGACTGCTTCTTTATTTGCTGATAAATCTTAAACAACATAAGTACGTTGCAAATAATAGTACA  
 GGTACCATCTTTATGTGAAGTTCTTTTTCTTTTTTGAGACAGGGTCTTGCTCTGTCAACCA  
 GGCTGGAGTGCAGTGGCACAATCAGAGTCTACTGCAGCCTCAACCTCTCCAGATTCAAGTG  
 ATCCTCCCATCTCAGCCTCCCAAGTAGCTGGGACTACAGTTGTGCACCACAATGCCTAGCTA  
 ATTTTTTTGTATTTGTAGAAATGGGGTTTGCCTATGTTGCTCAGGCTGATCTCAAACCTCT  
 GGGCTCCAACGATCTGCCACCTTGCCCTCCCAAGTGTCTGAGATTACAGGCGTGAGCCAC  
 TTGCTCTGGCCTTATGTAAGCTCTTGACCTAGCATCTGACTGGAACAAGCGGGAATTGCA  
 TTTGGGGGCATTTTCTGGGCCAGTTTCCCTGCTTATTTTACCTGCAATAGGTGTGCTCACA  
 AAAGTCTTTCTGACATACACACTGCAGGTGGCAGTTCAAGAAGAATCAACCTTTTTCATTTGG  
 GGATATTAGGATCTTCTTGAGAGACTCTGAAAATGGCACACAAAGAATGGCAGTTATGAACG  
 TGACTTCTAGATTTTGTCTTGTAGGAGGCCTTGGTCATGGATAGGGGAAGAGGGATGATG  
 GGATGGAATGGGAGGGTGGGATCTAGATGACCTCTGAAATTGCCCAGTTACTGCTTCTCT  
 CATAACTGTTCAACAAACGTTTTTTCATATATACACCTTGTTTCCCTGGGAAGTGAGGGGAC  
 GAAGCCTTAGAGGGTGACATAGCTAGAAAGTGGAGAAGCTCACTGTTCACTGTGCAAAGCC  
 CCAGTAGTCGGATTCCGGGGAAAAGAACAAGTATCTAGTTTGATGACAATGTTTTCTGTAA  
 GAATCCCAACACTTTAGAAATAGAAAAGGACCTAAGATTCTCTGGCTCAGCCCCAGCCTTTCT  
 GAAGAAGGGAAGAACTAGGGACCCAGATGGTTTAAAGACACCCACAGAGTCCCCAGATGAGCT  
 GGCATTTGAGCTGGTCTGGAGCAGAGTTTCTCCCTCAAAGAACACAGAGAAATCAGAGAGT  
 GGCTGCCATTGGTCAGAGGGGGATGTCAACAACAGATCAAGCCGTCATCAACAACAGGTATTT  
 CTGAAGTTCTGTCAGGGGACTAGGTCTTGCATTTTTAAGTCTTTTCAAACCTGTGCAGCTTCC  
 TGAACCTTATGCTGTTTGTCCATCCCACTTTGAAGCTGGGGGAAGACAGCTTTCTTTGGGA  
 ACTCTGTCTTTCTCAGTTGACTTCCCAAGTAAAGCAGCAACCCCTGGATAGCCTTGTATGCA  
 CTTTAGGTATTAAGAGGCTATTTGGGTTTTACTAGATTAATCAATAAAACATTTCTATAGCA  
 CATATCATACACTGAAGCAAATTCAGAAAGAATGCAAAACTGCTATCTTTTGGGGGAGTCTG

Table 4

GAAGCCTGTTGGTGTAGTGTATTTATTTTCTTTGTGGGGTCTTCTGTGAGCTACAGGCACAGTA  
AGAATAATTCAGAGCGGTACTGGGAGTTGGTTCAATTTTCATGTCATCACTTTTCAATGAAGGG  
AGTGCATTTCTCTGAGTAGTAAATGAGTATATTATTTGTGGCAGCTTTTCTGTAAAGGGAGCTT  
TCCAGACATCTGGTTGCAAAGACAAATAGGATATATATTTGTACTTCTTCTGTGACATGT  
TTTTGTGACACACAGTTATCTCTAGGAGTTGACGTCTGTGGGCACTAAGGGACTGAGGTTGG  
GGGAGAAAGCTGAGGAGGCTTTGGAAGAGAAGGTGAGGAGCATTTTCAGGATTTGCAGTCCC  
CCTCCACATGTATCCACATCTGAGCTGGTGGTGGTCCAATAATGAGGCATTTGGGGCAACCA  
ATTTTGAAGGATAGAATAGCTTTATGTGGAGCAAACCTTGAGGATCAATTGGAGTTGAGTGG  
TTAAAACTTAAAGATGGCACAGGAAGCTGTATCATTTACAGGTGAAAAAAATAAATGGGTCT  
GACNNNN

&gt;610

TTTTTCTATATAAAGTGATACTGAAATATGCTAATTAATATATTAATTTTAGTTAAAT  
GCTGCTAATATGCATACCTCTTACTTGAAGGTTTTTAATATGTTTTGATAACTTTAATAACTTC  
AGGTGATGTCTGTATAATTTTTAAAGTGCAGCTCTCTCTAACAAATGTGCCCTACAACCTCTG  
ATTAACGGCGTCTTG

&gt;611

&gt;612

NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNTTGTATATTTTTTTTTTTTACAT  
CCCAAACAGGTCTTTTTATTTAACATAAGGCCAAAGAAGCTATCAGGCGTTGCTGAATACTGT  
CCACTAACTGTACAAAATATTGACTGCATGCCTCGCAAACACCAAAATATCCGCTGGAATGC  
CATAGAAAATAAATACTTCTGCTATAAACACATGAAAACATATCAAACTGTTATCTCTTTAAAC  
ATATTGTAAATAAAAAAATACCAGTACTTCTACACAATAAATATTAAGAAACCATTTGACATAG  
TTGAAATGCACTCATATAAATTAACAACCTTTAATTACATTAGCCAAACAGACATTGGTTAAAGA  
ACTGCATGTAGTATGCAAAACAAAACAAAACAAAACAAAACAAAAGTAAAAAACCAACAAAA  
TAGAAACAAACAAACAAACAAACATCAACCACAGAACATAAAAAGTTTTAAATAAAACAGGCT  
TCAGATTATCTTGGCTTTCATAATTATTTTTCTTTTAAAGAAAAATATCAACCCATTGTCAAT  
GCACTGTTTTTCAAAGCATTTAAATAGAGGGTAAACCCCTTTGGAAATTAATACAGAAGAAAT  
GATTCACCTTTATGCATAAAAAATAAATAATATAGCTGAGACATGTGGTTTGCTTCTGCTCT  
TGAAGATGTGAACAGCTTCTAAGCATTCATTTTCTCTGACCCATACAACAGCTTCTCAGTGAT  
ACAGGGTTTTAATTTAAACACATACAATGTCCACCCCCAAACCTTCTGCCACATCTACAAGTT  
TTATTTATTTTGTGGGTTTTCAGGGTGACTAAGTTTTCCCTACATTGAAAAGAGAAGTTGCC  
AAAAGGTGCACAGGAAATCATTTTTTAAGTGAATATGATAATATGGGTCCGTGCTTAATACA  
ACTGAGACATATTTTCTCTGTTTTTTTAGAGTCACCTCTTAAAGTCCAATCCCACAATGGT  
GAAAAAAAATAGAAAGTATTTGTTCTACCTTTAAGGAGACTGCAGGGATTCTCCTTGAAAAC  
GGAGTATGGAATCAATCTTAAATAAATATGAAATTGGTTGGTCTTCTGGGATAAGAAATCCCA  
AACTCAGTGTGCTGAAATTCACCTGACTTTTTTGGAAAAAATAGTCGAAAATGTCAATTTGGT  
CCATAAAATACATGTTACTATTTAAAGATATTTAAAGACAAATCTTTTCAGAGCTTCTAAGAT  
TGGTGTGGGCAGATTTTTAAGAGCCTAGAGTTTAGTCTTAGAGAAAGAGTGAGGAGATAGTA  
AGGTTAGATAGAGCCACTGAGTTTCAAGAAAAAACATACTACTAAGAATCCCATATGTTATA  
ATTTAAAGCCTTTACTTTTGGCCTCATGCTGCTAGGTGAAAGAGTGGTTGTTACAGGACTTG  
TATTTTCCAAGATGATTAAAGATGGTAAATACTATCTTTCAATGTTATCAAAAAATGGTAGCA  
ACTTATACTTCTATTTCAAAGCCATATAAATTTAACAAAATTAAGTTTGTGGGTGTTTGATAA  
CCCAATCACTCAATATCCAATTAATAATATGGAATAAGTTTCAAATAAATATGGAATTACATTT  
CTCTGCTTCTGATAACTGTGGTCACTAATCAACCCCCATGTTATCCCCGATATGTCTAGGACT  
TAGCTTAAAAAGATAGCAGATGTATTTGAGATGAGTGGGAACATACATGGGTATCAGCTTTC  
TTGGTAAATTTCTGCTTTTTCCATGGCCTTGACCATCTTGTCTACTGCGCAGTGAACCAGGAC  
TTAATTTCTCACACTGTTTCTGCAGGTTCCGGTACCAAAGAAGATGCAGTTCAAAATACTGCC  
AGTTTTCCAAGAAATTTTGTAAAGTTGAACATGGCCATCTACTTTGCCTTAAACCTTTTCTCA  
CCACACCCACCTTCCACATGCATGATATCCAAGGTGACAGACCTGGATTAGAATCCACTC  
TCAAGCTTCTCATGCAGTGCGTATTGTATTTTCTGCATAAGAAAGGGCTGCCTCTAGAACACA  
GTAAGTGTATTTGCCAGTAGTGACATTGCCTACATATAGCCAAGTGTTATAGTATACCAACT  
TAGTATATTTTTCAAGGAGAGCTAAACCACCTTTGTAAATGTTTGGTTTCTCACTGTTATCTC  
CTTCTCTAATAATTAATTTATTTAATCTACAAATGACATAGGGCTAAAAGCTTCAATTTTTAC  
AAAATATTAATTAATGTAATTGTTCCCAATTATTAGAACTTTTTCCATTTTTCAAATGTTTG  
CCAACCTTACACAAGTGTGTAATAATAGGGCTCTGGATTTTCAAAGCACATACATGAATAAT  
TTATTAGCTATTCCAGGCAAGCTAAGTACTAGAATAAACTAGATAAAAACCTGGCTTTAAGCA

Table 4

TGTACTTTGATATTTATAAAACAAAGGTGTTTTTTTTTTCATTTCTGCATCTGAATCAATACAAAT  
TTACACATGAAGAATTTTGGCTGTAAATTTAAATTTTAGAGATTTTACTACTGCCCTCACCTC  
TGCCCTCCTTAACTGTTCTCTTCTTACTCTCCCTCTCTTAACACTTTCTCTCAAATTAATTAT  
CTTTTAGTTAGTGATGACATTATTTTCCCAGCTGGTACAGGTAATATTTCTCACAACCAAGC  
CTTAATCATTTTTAAAAAATACACTCAACTCTAATTCTGGCCTAAATATTATTTTCTGAAAAAG  
CTTCTGATTTAAGATTGATTTCCAATAGACACTAAGTTGGAAAAACATCAGCCCAGAGTTTTGA  
TTATCATCTGTTTTTCCCCACAGGGGATAACTTGTAGAAGTGGGAGGGGCACAAAAAAGAGG  
AGGAAATTTGCGACGCGTGGGTGCACTCCCTATAGTAGN

&gt;613

&gt;614

NNAAGAATTCGGCACGAGGGCGCCTTCTCCTCCAACCTTCAATGAATGGTACGTGTG  
ACGGGTCGGGGCCTCTCTCCCTCTCCCTGTCCCCACCCAGCGCAGCAGCCCTCCCCGCA  
GCTAGCAGCGAGGGCACCTTGTGATCATGTTGTTAAAAATTATGAATCTGATTTTTATGATGAT  
GAAAATTTTACCAGCAGAAGGATTTTTTAAAGTTTTTTTTTTTTTAAATAATCTAGGCATG  
AAGAGCAAAATATCCCTTCCGGAGTCTTTGAAGCTGAAAATATAAAACAAATAAAAAATAAA  
AAAAATAAAACCCACAAAAATGTTGAACCAACCTCCCTGCTAATCTCCATGCCACGTTCTT  
TCCCACCCTGTTCCAGTCTTCTGACAAACTGTGTACATAGCGGACTCCTCTTCTCCTCC  
GAGGTGGTTTTAAAGGCTTTTTGGTGTATAGAAGTTTGTCCATTTGTAAACTCCGATTGCG  
TTCTCCCCGCCTTCCACCCCTTCCCTTCCCTAAAGTGATGGGCTTTCTCTTTTCTCTTTTA  
GTTTACCCGGTTTTCTTTTAAAGTAATGTGGAAGAAAATGGTTTATTTGTATTGTGGTATTGAA  
TATTGTGTTCTTTTTATGAGGCAACCTGATTGTAACTTCATGTAACATAGACTGGAAAAAA  
TGAGCCGTGCCAAAGTCTCCCTTCTGTTTCTTCAGCACATTGACCCATAGCACACACATACA  
CACCACCACCAACAACGCTTGTGAATGTATTTTTCTGTTAGCTGGGTTTACATGTGATGTTTT  
AGTGCTTTTGCAAGTTCAATTTGTTAGTTCCTGTATGAAAGATTGTGGGGGAAAAATAAACGT  
CGTGCCGTTAGCTTTTTCCGTAATAACACCCTTCCCTTCTGTAATACCCGTTACCATATTTATC  
CATTTGTAATTAATATGGTATTAACCTTGCTACAGAGGAAACAATATTTATAAAGAAATGTTTC  
TTAACTATAAATATGTACAATTGTGGGCATAAACTGTTTCAGATTTTTTATTGAAGTTTTAA  
GTGGTTTGATCATTTCTTGTGATGTTTTGAGAGTAATGCATACAGAAATATAATAAATGTGTT  
GAACTGCATGAACATAAAAAAAAAAAAAAAAAAGTCGACGCGGCCGCGAATTTAGTAGTA  
GTAGGCGGCCGCTCTAGAGGATCCAAGCTTACGTACGCGTGCATGCGACGTCATAGCTCTT  
CTATAGTGTACCTAAANNNNN

&gt;615

&gt;616

NNGCAGACAGTGACTTCGATGCTAAGAGCAGTGCGGATGATGTAATAGAAGAACT  
AGAGTGAAGTGCAGAAGGGGAAAAGGTCATAGAGACCCCTGAGAATGACTTCAAGCACCACA  
GGAGTCGTAACCACTCTCGTTCACCTAGTGTAGAAAGAGGGCAACAGTACGGCAAGAAGAA  
GAATGAGAAAAGAGGGCTGCTGCGCTGGAAGCATGTTTGGATGTAACCAAGCAGAAAGATC  
TCAGTGGATTTTATAGGCACCTATTAAATCAAGCAGGTGGTGAAGAGGAAGTACCTAAATGC  
AGCTTTCTGTAAGCCAGATCTGGTATAAAGGAAGAAAAATCAAGGGGCTTCTCCAATGAAGT  
AAGTTCAAAAAACAGAATACCACAAGAGAAATGCATTCTTCAAACCTGATGTGAAAGTAGAGGA  
AAACCCAGATGCAGACAGTGACTTCGATGCTAAGAGCAGTGCGGATGATGAAATAGAAGAA  
ACTAGAGTGAAGTGCAGAAGGGGAAAAGGTGATAGAGACCCCTGAGAATGACTTCAAGCACC  
ACAGGAGTCAAACCACTCTCGGTACCTAGTGAAGAAAGAGGGCACAGTACCAGGCACCA  
CACGAAAGGATCACGAACGTCGAGAGGACATGAGAAAAGGGAAGATCAGCACCAGCAGAA  
GCAATCCAGAGACCAAGAGAACCATTACACTGACCGTGATTACCGGAAAGAAAGGGATTCTC  
ATAGGCACAGAGAGGCCAGTCATAGAGATTCCCATTTGGAAGAGGCATGAACAGGAAGATAA  
ACCAAGGGCGAGGGACCAAGAGAAAGAGTGAAGAGTATGGAAAAGGGAGAAAGATAG  
GGAGAAATATTTCCCAAAGAGAAACAAGAAAGAGATAGACAACAAATGATCAGAACCGACCCA  
GTGAGAAAGGAGAGAAAGGAAGAGAAAAGCAAAGCAAAGGAAGAGCATATGAAAGTAAGGAA  
GGAAAGATATGAAAATAATGATAAATACAGAGATAGAGAAAAACGAGAGGTAGGTGTTTCACT  
CTTCAGAAAGAAATCAAGACAGAAAGGAAAGCAGCCCAAATTTAGGGCAAAGGATAAATTT  
CTTGACCAAGAAAGATCCAACAAATGAGAAACATGGCAAAGGACAAAGAAAGAAACCAAGA  
GAAACCTCTAATTTCTGAATCATCACTGGGAGCAAAAACAGACTCACAGAGGAAGGGCAA  
GAGAAGGGTAAAGAACAAGAGAGACCACCTGAGGCAGTGAGCAAGTTTGCAAAGCGGAACA  
ATGAAGAACTGTAATGTCAGCTAGAGACAGGTACTTGGCCAGGCAGATGGCGCGGGTTAA  
TGCAAAGACCTATATTGAGAAAGAAAGATGATTGATGGCTACCCAAGAGAAAGATTTAAGGA

Table 4

AGCACAGAAAACCTGTAATTCCTGGAACCTGCTGCGTAAAACCATAAAGGAGTGTGTTACCAG  
TAGTTTGGAGGGCATTTTTAAATTTATTTTCAAAATTTTAAAGTTAAAAGTCAGTCTTACAGCTT  
GGATGTTTGGATGTGGATGTTTGGCTGAATTTATATATAGTGTGTACTCATCAATACCACATT  
CTTTGTTGTATTCAAGAACCGTTAAGAGTGTGCTAATTCCTGTAGGTACATAATGAGGAAAA  
TTTGCTCCACTACAACCATTAAAAAATAATTTTGCCAGATACGGTAGCTCGTGCCTGTAATA  
CCAACATTTTGGGAGGCCAAGGGCAGAAGGATATTGAGGGCTAGGCATTCAAGACCAGCCT  
AGGGCAGGATAATAAGACCTTGTCTCTATTTAAAAAACAAAAGCCTAGCATGGTAGTCCAT  
GCCTGTAGTCCCAGCTGN

&gt;617

&gt;618

GTCGACCCACGCGTCCGGGCGGCTTCCGTAGCGGGAGGGCGAAAGATGGCGGGCG  
GCAGTACTGGGACAGTTGGGTGCGTTATGGATACATAACCTGAGGAGCCGGGGAAGCTG  
GCCTTGGGTGTTTTACCTCAATCATATATCCACACAAGTGCTTCTCTGACATTTCTCGAAAA  
TGGGAGAAGAAGAATAAAATTGTTTATCCTCCACAACCTGCCTGGAGAACCTCGGAGACCAGC  
AGAAATCTACCACTGTGCAAGACAAATAAAATATAGCAAAGACAAGATGTGGTATTTGGCAAA  
ATTGATACGAGGAATGTCTATTGACCAGGCTTTGGCTCAGTTGGAATTCAATGACAAAAAAG  
GGGCCAAAATAATTAAGAGGTTCTCTTAGAAGCACAAAGATATGGCAGTGAGAGACCATAAC  
GTGGAATTCAGGTCCAATTTATATATAGTGTAGTCCACCTCAGGACGAGGCCAGTGCTGAA  
ACGCATCCGCTACCATGGCAGAGGTGCTTTGGGATCATGGAGAAGGTTTATTGCCATTATT  
TTGTGAAGTTGGTGAAGGGCCCCACCTCCACCTGAGCCACCAAAGACGGCAGTTGCCCA  
TGCCAAAGAGTATATTCAGCAGCTTCGCAGCCGGACCATCGTTCACACTCTATGATGAGGAG  
ATTCAGACTCCACAGTGTATATATTTGCCATTTATTTTCTAAAAATAAACAAAATTGAAGCC  
ACACACCCCCCCCCCACGACCGCAACAAAACACCCGCGCGGCCCGCCGACGAAACCAC  
CCCCTCCGGACGCGGCACAACCAAAACACCACAGCCCCAACCAACN

&gt;619

CGACCCACGCGTCCGCCCTGAGCCGGCGGAGGAGGACAAAAACCGCCGCGACCC  
CGGCAGGGTGGGAAGTGCAGGGCAGCGCTCCCAAGACACGCTTGTGGAGTTTCGGGCCT  
GGGTGCTTGGTTGTCTGAGCCTCCTTTTTTGTGTTTGCCTGGGTCCCTCGTGGCCGACGGA  
ACAATGAAGGATTGCAGTAACGGATGCTCCGCAGAGTGTACCGGAGAAGGAGGATCAAAAG  
AGGTGGTGGGGACTTTTAAAGGCTAAAGACCTAATAGTCACACCAGCTACCATTTTAAAGGAA  
AAACCAGACCCCAATAATCTGGTTTTTGGAACTGTGTTACCGGATCATATGCTGACGGTGGA  
GTGGTCCTCAGAGTTTGGATGGGAGAAACCTCATCAAGCCTCTCAGAACCTGTCATTGC  
ACCCTGGCTCAGCTTTGCACTATGCAGTGAATTATTTGAAGGATTGAAGGCATTTTGA  
GGAGTAGATAATAAAATTCGACTGTTTCAGCCAAACCTCAACATGGATAGAATGTATCGCTCT  
GCTGTGAGGGCAACTCTGCCGGTATTTGACAAAGAAGAGCTCTTAGAGTGTATTCAACAGCT  
TGTGAAATTGGATCAAGAATGGGTCCCATATTCAACATCTGCTAGTCTGTATATTCGTCCTAC  
ATTCATTGGAAGTGAAGCCTTCTTTGGAGTCAAGAAGCCTACCAAAGCCCTGCTCTTTGTAC  
TCTTGAGCCCAAGTGGGACCTTATTTTTCAAGTGGAAACCTTTAATCCAGTGTCCCTGTGGGCC  
AATCCCAAGTATGTAAGAGCCTGGAAAGGTGGAAGTGGGGACTGCAAGATGGGAGGGAATT  
ACGGCTCATCTCTTTTTGCCCCAATGTGAAGCAGTAGATAATGGGTGTCAGCAGGTCCCTGTGG  
CTCTATGGAGAGGACCATCAGATCACTGAAGTGGGAACTATGAATCTTTTTCTTTACTGGATA  
AATGAAGATGGAGAAGAAGAACTGGCAACTCCTCCACTAGATGGCATCATTCTTCCAGGAGT  
GACAAGGCGGTGCATTCTGGACCTGGCACATCAGTGGGGTGAATTTAAGGTGTGAGAGAGA  
TACCTCACCATGGATGACTTGACAACAGCCCTGGAGGGGAACAGAGTGAGAGAGATGTTTG  
GCTCTGGTACAGCCTGTGTTGTTTGGCCAGTTTCTGATATACTGTACAAAGGCGAGACAATA  
CACATTCCAACATATGGAGAATGGTCCTAAGCTGGCAAGCCGCATCTTGAGCAAAATTAAGTGA  
TATCCAGTATGGAAGAGAAGAGAGCGACTGGACAATTGTGCTATCCTGAATGGAAAATAGAG  
GATACAATGGAAAATAGAGGATACCAACTGTATGCTACTGGGACAGACTGTTGCAATTTGAAT  
TGTGATAGATTTCTTTGGCTACCTGTGCATAATGTAGTTTGTAGTATCAATGTGTTACAAGAG  
TGATTGTTTCTTCATGCCAGAGAAAATGAATTGCAATCATCAAATGGTGTTCATAACTTGGT  
AGTAGTAACCTTACCTTACCTTACCTAGAAAAATATTAATGTAAGCCATATAACATGGGATTTTC  
CTCAATGATTTTAGTGCCTCCTTTTGTACTTCACTCAGATACTAAATAGTAGTTTATCTTTAAT  
ATAAGTTACATTCTGCTCCTCAACCAATGCAATTTTTTGTGTGTTTGAAGCTAATTTGAG  
AAAATTTTATAGGTTACATTTCTGTCAGCCTATCTTTATCCACAGAAAGTGTTCCTTTTTTTA  
AATCAAGACTTTTAAAGTGGATTTCTCCCATCACTGTTTTTGAAGGTCCCTCAAGTCCGT  
GTTAAGGTAATATCTGTTTTCTCCTGATGTCACAGCCTGAGCATACTCTGTGCATTAGGAA

Table 4

GACCTGAGTGCATTTCCCACCATTGTCTTTCCACATTATGTTGTAGCTGGCTGGCTGTCAG  
 GCGACTACAAGACTGAGGGTCTTGTGCCTTATAGATCTTTGTATCCCCCATGGCTGACACAT  
 AGTAGGTACTCAGTAAATGGTTTTATAATGAATCAGTGAACATTTTGCTTCTATAGAAGTGTA  
 CCTTCTTTGTTTCTATATTATGAAACCTCTTTATTAGAATTTGTGATTGATTCTGACAGTGTATA  
 GATTTACCTTATATTGTCTTTATTTTCCATGAGCTACTAAGTCATTAGAGATACTCTGAAGCAT  
 AGTTAGTTTAGGAAATCACTTCATATTGATTGTATTAGAATTATCTTGGAAATTGAAGATATATC  
 CCTAGAGCAGGGGACCCCAACCCCAAGGCCATGGGCCACACAGCAGGAAGAGGTGAGTGG  
 TGGGCCATTGAGGAGCTTCATCTGTATTTATGGCTACTTCCCATCACTCGAATTACCACCTGA  
 ACTCCACCTCTTGTGAGCTCAGTGGCAGCATTAGATTCTCATAGAAGCACAAATCCTATTGTG  
 AACTCTGCATGCAAGGGATCTAGGCTATGCGCTCCTTATGAGAATCTAATGCCTGATGACCT  
 GAGGTGTAACAGTTTCATCCTGAAACCACCCTTCACCCTGCAGTCTGTGGAAAAATTGTCTT  
 CCACAAAATGGTCCCTGGTGCCAAAAATGTTGGGGACCACTGCTCTAGAGAGAGGTCATG  
 ATATCATACCAACCAATGGAAATGACAAATGTTTTATGTCAAGTGTTAATTGCAGAAATAAT  
 CTTTTTTTTTTTTTTTTTGGTAGAAAACAAAGAGGCATACTCTGATTTTTATACTCTGTTTTGCA  
 GGTGCTCTTTTCTTTGAATGGAGATTTGATGAGCAAGTGGTTAGGATGCAGGGAGAGCTACT  
 ATGGGTGATATTTCTTTGTTTAGGAGCTGTGAGTTAAATTTGTATCCTTTCTGGTTTATCTAA  
 GGAAAGTCAAATCTTGACAGAAAACATTTTCTTGGAAAGGTCAACTCTCAGACATTGTATT  
 TGGTTTCCCTCAGTCTCATAACTTCTTCTCTGATGAACATATTTTATTCTCTTTTCAGAGAAG  
 GAAAAATAAAAAAGGATTCTAAAAGTTTGATGCATTGGAAAAATTTCTTGAGGCATTTAGCAAC  
 ACATAGAAAATGGGCTTTGATTCTTTTCCAAAACCTTTTAGCCATAGGGTCTTTTATAGACAGG  
 GATAGTAAATGAAAATTGAGAAATATAAGATGAAAAGGAATGGTAAAAATATCTTTAGGGG  
 GCTTTTAATTGGTGATCTGAAATCTTGGGAGAAGCTGTTCTTTTCAGGCCTGAGGTGCTCT  
 GACTCTCGCCTGCGCACTGTGTACCCCGAGCAACATTCTAAGGGTGTGCTTTTCGCTTGGC  
 TAACTCCTTTGACCTCATTCTTCATATAGTAGTCTAGGAAAAAGTTGCAGGTAATTTAACTGT  
 CTAGTGGTACATAGTAAGTGAATTTCTATTCTATGAGAAATGAGAATTATTTATTTGCCATCA  
 ACACATTTTATACTTTGCATCTCCAAATTTATTGCGGCGAGACTTGTCCATTGTGAAAGTTAG  
 AGAACATTATGTTTGTATCATTCTTTTATAAAACCTCAAGAGCATTTTAAAGCCCTTTTCATC  
 AGACCCAGTGA AAACTAAGGATAGATGTTTAAAAACTGGAGGTCTCCTGATAAGGAGAACAC  
 AATCCACCATTGTCAATTAAGTAATAAGACAGGAAATTGACCTTGACGCTTTCTTGTTAAATA  
 GATTTAACAGGAACATCTGCACATCTTTTCTTGTGCACTATTTGTTAATTGCAGTGGATT  
 AATACAGCAAGAGTGCCACATTATAACTAGGCAATTATCCATTCTTCAAGACTTAGTTATTGT  
 CACACTAATTGATCGTTTAAGGCATAAGATGGTCTAGCATTAGGAACATGTGAAGCTAATCTG  
 CTCAAAAAGATCAACAAATTAATATTGTTGCTGATTTTGCATAATTGGCTGCAATTATTTAAT  
 GTTTAATTGGGTTGATCAAATGAGATTCAGCAATTCACAAGTGCATTAATATAAACAGAACTG  
 GTGGCACTTAAATGATAATGATTAACCTATATTGCATGTTCTTCTTCTTCACTTTTTTCAGT  
 GTCTACATTTTCAGACCGAGTTTGTGAGCTTTTTTGA AAACACATCAGTAGAAACCAAGATTTT  
 AAAATGAAGTGTCAAGACGAAGGCAAAACCTGAGCAGTTCCTAAAAAGATTTGCTGTTAGAA  
 ATTTTCTTTGTGGCAGTCATTTATTAAGGATTCAACTCGTGATACACCAAAAGAAGAGTTGAC  
 TTCAGAGATGTGTTCCATGCTCTCTAGCACAGGAATGAATAAATTTATAACACCTGCTTTAGC  
 CTTTGTTTTCAAAAGCACAAAGGAAAAAGTGAAGGGGAAAGAGAAACAAGTGACTGAGAAGTC  
 TTGTTAAGGAATCAGGTTTTTCTACCTGGTAAACATTCTCTATTCTTTCTCAAAAGATTGTT  
 GTAAGAAAAATGTAAGACAAAAAAGGAAAAAACAACAGGGGCAGAGGCAGGCAGTA  
 GCAAGAAAGCAGAGCGTAAACATCAGCTAGATGGTAACATGCAATNTCAGCTCTCTTGAAGA  
 CATGGGAAACCTAAGNN

&gt;620

NNAGTGTATTTATTAACATGACTAATATTTTCATATTTTATTTTGTAGAAGATTAATTTG  
 TAATCATTGTACCCTGTAGATTTTGAACAATTTTACTAGAAATTAATGCTGGTTCTTGAG  
 TAACCTAAAAAATTGTATTTACTCAAATTTAGAATGCTATTTATAGTTCTAAGCAGTTAGATGA  
 AATATTCTGATTATTCTAAAGTTGCTTTGGTACAAAATTTAGAATAAAGCAAAACTGGCAGCAC  
 CACAACAAATGTGATCCTTTCACAGCAGGTCTAAAGACCCTCAGAGGCAACAAAGCATAAGT  
 TAAAACACACATAAATAAGAGCCATTCTCCTGACAATTTTCTTACATCATTTAAAAAGAGAAATA  
 AAATCCACATTGAGTAAGTTATACTGGAGGCCAAATTTTCATGCTCCATGTAATTATTCCTCA  
 ATGATAGTGTAAAAAATGCTTATTATTGCTAACTGATGTCTAATTCATAGTTCAAGATGCTTCA  
 ATCATGAGCCCAATGATTAGAGTGGTACATTTTAAATGTTTAGTCCACTGATACTGTGATATTA  
 TTTTAATGCAAGGTTTAATTTAGTTTTTTATTACAGATTTATTGAGGTATAATTGACATACAACA  
 AACTGCACATACTTAAAGTGCACAATTTGATACACAGTCTTTTAAACAGCATGAAAAGTGCCT

Table 4

GATAACTTAAAAATGAAAAAATTTCAATTTACACATATTATTTTAAAATAGTACATTCTAATTT  
TTATGAGACATAGATATGTATTTATAAAAAGGTAGATGGAAAAGAGAAGAAATTAACCTTAATTTCT  
AAGAGCCAAATTTACTCAGAAGGTTTAGAAACACCAAAATTAACAGCCAGTTTTCTTGATTTT  
CTTCTTGAAGAAGAGATTGGTGTGACTTATGGTGAGATATACTATGGCCTTGAGAGGCAGT  
TTCAACTTGAAAAGAAGATGCAGGTTGAGCAATCGGAGAGGACTTCAAAGAAGCTGATGAGC  
TCTCCCGTGGACTTACTTTGACAATGTTGGAAGAATCTGGCTGGCTAGTCTGAACTGGAGTG  
GCTTGAGAACTCTGGGCTTCCTTATTCTCAAAGTTCTTTTTGTTTGCAACCCTTTTTTTAGTAA  
CCTGCAGAGGTATAAACTGATTGTGCACACCCCTGGTATTCCCCCAGCCATGGGCATGGT  
CCCAGAATATAAAGTATGATGGAAGGGCTTCCAGGAACTGGCACCGATGGTCCCCATGGC  
ATTGAGCCAAAGAGATGAGACGACGAAGGCATTATATTAGCTGTTGGTGGGGCCAAGGAAA  
ATTTTTCTTTTAGTATAATGGTATCATCAAAGCTCTGAAATTTGAGACCTCCTTCTGCTAGCCT  
TTTTGGGCTTTTTTTTTCCCTTTGGCAAAAGGCCTACACTTACTTCACCTATAATTACTCTTC  
CTTACAACATTCAACCTCAGGGATCCTTCTAGGGACTGTGTGGGACTATCCACACGGAAT  
GGAATTTATCATTATACTGGGCCTGAAAAGGGAGGAATACTACTACTTAATATCATATGCTGA  
TACAAGGTTTAGGGGGNTATTTGCAATTATTTTATAAAAAAANTAAAGGGGGCAGAAAACCG  
NCCCNNGTGAGGNGGAAGCNNN

&gt;621

&gt;622

NGCCTTGGTGGCCATAGGCTTCTCTTTAACCAGGAAAAAGATATGCATGTGCTGTAA  
GTCCCTAGGTGCAAGCTTTTTCTTGTTATGTTTTAAACAGCTTTATAAACTATTGTTTCATAGAA  
GATATTATGTACATTTATTTTCAAGATAAAGGACAATAAGTTTACTTTGTATCTGAACTCAAAACA  
AAGTAGTTGTATATTTAACATTCAAATTTGGGATTTCCCAATGTGACACATCATGAATGCAAA  
CCCTCCAGCCCATCAGACGCCAGGCTGCCTACTGGTAATCTGTGTATAGTATATAAACATG  
TAAAAATAGGTTGTATTTTACTCTATGTATGATGCTAATCAATGAACACTTTATTTATTTTACAG  
AGAAAACCTTATCTGTGAACCTTACTATATATCTGTTTATTTTACTTTATTTTTTTTTTAAATAAAA  
AGGGTTTTAAATGCTATGCAGTCATTAGTAGAAAAATTTTTAGGACTCTGCCTGCTCTGTAAC  
TATCTTAATATGATCTGGCAGAACTCGCATGTATCCAAAGTAAAGTAGTTTAGCTAAAGAAAAG  
GTTCTTCATTGCTTTTTCTGTTTACAGTTGTGGCTCTGTTTTTAAAGATGTAACCTGTTTTTAG  
ATTATACTTGCATCTGTGACTTTACTACCAGCCACGTTGACACAAAACAGGTTCTGGTTCAGG  
TAAAGTTGCGTCAGTCACCTGCAGCAGAAATCCCTCTTCATTCTCTCTCTGTGTTTCAATCC  
TCTTCTGTGCTGTTCTGAAGCTTCTACCAATACTCTTCCATATTGCTTTTTTCACTGAAGAGA  
AATGCATTCAAGATTAGGTCCCTCCTGTCTATCCAGTTTCAGGATTTTATGTTGTTTTATACAC  
AGTTATTTTCAATATAGAACTGGCTTTATTGCCAAGTGTTTTTTAAACATGTTTTAACTCTCA  
TATGAGCAAACTGTCCAACCTCAGTTTTTTCATAAGATTAACTTCTTACGATCAAATTTGTCTC  
TTGCAATGATGTGATGAGTTGCCAAATAATTGAGATTATTTTAAAATGTTTTGTTTCATATTCTT  
GTTTTATAATTAATTTACATTCAGTGTGTATGGGTTTTTTTTTTTATTTTACTCTTAATGTA  
AGGTGGATATTTCTGTCAATTTACATGGTTTCTTACTGAGATTTTATATATAAATTATAAATGT  
TTACCAAAAAAAAAAAAAAAAAAAGATCTTTAATTAAGCGGCCGCAAGCTTATTCCGCTATAG  
TGA

&gt;623

NAGTTAAGCAGACTTTCAACCACTGAGCTTCTTTAAAACTTAAAAAAAAAATCTTATT  
ACCAAATCTCAGCTAGGACANAGTGTTGCTACCGGGCAGGTACAGCCATTGCTCTTTGAGTT  
TGGTCTGGCTAGCAAAAAGCTGGCTGTGTTATGTAAATAAAGCCCCTATAGTAATTAATTTT  
AAAAAAGTTTTTAAAGCTGGCTGTTTTCTTACCCTTCAGAGTCCTTGACCCCGTAATTTAG  
GGTCCCCTTCAGATTTGACTAAGACAGAAACAAACAAACAAACAGTTAAGCAAACTAACAA  
TGGTCACACAAATTATACAATTTCTGAGTGCTCTAAGTGCATTGGAAGAAAGCTGAACTCCA  
TAAAAACATCACCTGCCTTCCATCATCATGAAAGCAGGAAACTTGCCTTCTTGTGGGAG  
CAAGTAAAACTCCAAAAAAGAGGTGTTGTACAGCAAAATAAACTTCCGATCTCTACCAAATT  
TTAAGAGATCAGGGATTTTCTGGAGGGAGTCTCTCAGACCTCAGCAAATTGCTCTATTGGT  
TTGAGCCATAAAGTTAGCTCATGCTGGTACCAAGCACCGATAGATTTGTCAAGGGTCAGGGG  
CATCTCCACCCAGAATCCATTCTGGTTTCCAAAATGTGAACCCAGAAAATCCGAGACAGGT  
ATCAG

&gt;624

&gt;625

&gt;626

Table 4

&gt;627

ACGCGGGGAGACACACACAGCCCTCTGCCACCTCTGCTTCCTCTAGGAACACAGG  
AGTTCCAGATCACATCGAGTTCACCATGAATTCAGTCAAGCCAACACCAAGTTCATGTT  
CGACCTGTTCCAACAGTTCAGAAAATCAAAAGAGAACAACATCTTCTATTCCCCTATCAGCAT  
CACATCAGCATTAGGGATGGTCCTCTTAGGAGCCAAAGACAACACTGCACAACAGATTAAGA  
AGGTTCTTCACTTTGATCAAGTCACAGAGAACACCACAGGAAAAGCTGCAACATATCATGTT  
GATAGGTCAGGAAATGTTTCATCACCAGTTTCAAAAGCTTCTGACTGAATTCAACAAATCCACT  
GATGCATATGAGCTGAAGATCGCCAACAAGCTCTTCGGAGAAAAACGTATCTATTTTTTACA  
GGAATATTTAGATGCCATCAAGAAATTTTACCAGACCAGTGTGGAATCTGTTGATTTTGCAA  
TGCTCCAGAAGAAAGTCGAAAGAAGATTAACCTCCTGGGTGGAAAGTCAAACGAATGAAAAA  
TTAAAAACCTAATTCCTGAAGGTAATATTGGCAGCAATACCACATTGGTTCTTGTGAACGCAA  
TCTATTTCAAAGGGCAGTGGGAGAAGAAATTTAATAAGAAGATACTAAAGAGGAAAAATTTT  
GGCCAAACAAGAATACATAACAAGTCCATACAGATGATGAGGCAATACACATCTTTTCATTTTG  
CCTCGCTGGAGGATGTACAGGCCAAGGTCTTGAAATACCATACAAAGGCAAAGATCTAAG  
CATGATTGTGTTGCTGCCAAATGAAATCGATGGTCTCCAGAAGCTTGAAGAGAACTCACTG  
CTGAGAAATTGATGGAATGGACAAGTTTGCAGAATATGAGAGAGACACGTGTGATTTACAC  
TTACCTCGGTTCAAAGTGGAAGAGAGCTATGACCTCAAGGACACGTTGAGAACCATTGGGAAT  
GGTGGATATCTTCAATGGGATGTCAGACCTCTCAGGCATGACCGGGAGCCGCGTCTCGT  
GCTATCTGGAGTCTACACAAGGCCTTTGTGGAGGTTACAGAGGAGGGAGCAGAAGCTGCA  
GCTGCCACCGCTGTAGTAGGATTTCGATCATCACCTACTTCACTAATGAAGAGTTCCATTG  
TAATCACCTTTTCTATTCTTATAAGGCAAAATAAGACCAACAGCATCCTCTTCTATGGCAG  
ATTCTCATCCCCGTAGATGCAATTAGTCTGTCACTCCATTTGAAAAATGTTACCTGCAGATG  
TTCTGGTAAACTGATTGCTGGCAACAACAGATTCTCTGGCTCATATTTCTTTTCTTCTCATC  
TTGATGATGATCGTCATCATCAAGAATTTAATGATTAATAATAGCATGCCTTTCTCTCTTCTCT  
TAATAAGCCCACATATAAATGTACTTTTTCTTCCAGAAAAATTCTCCTTGAGGAAAAATGTCCA  
AAATAAGATGAATCACTTAATACCGTATCTTCTAAATTTGAAATATAATTCTGTTTGTGACCTG  
TTTTAAATGAACCAACCAATCATACTTTTTCTTTGAATTTAGCAACCTAGAAACACACATTT  
CTTTGAATTTAGGTGATACCTAAATCCTTCTTATGTTTCTAAATTTTGTGATTCTATAAACACA  
TCATCAATAAAATAGTGACATAAAAAAAAAAAAAAAAAA

&gt;628

&gt;629

GCGTCCGGGCAAGCATCTTTGGTGAGCGAGGAAGAGGAAGATGAAGAAGAAGAT  
AAGGCTACCCCTAGAAGAAGCAGGTCTAGAAGAAGTAGTATGGTCTTCGAGTAGCCTTTTCTAG  
TTCCCCACCAAGAAGCTGGCAACAAACCAGATAAAAACAGTTCTTCCGAGCAGTGTCTTTCTA  
GCGCACGCTTACAGAATGAGAAAAAACAATTCTTGAAAGAAAGAAAGACTGTAGACAGGTG  
ATACAAAGGGAAGATTCTACCTCTGAGTCTGAGGATGACTCTCGGGATGAGAGCCAGGAGA  
GTTTCAGATGCTTTGCTGAAAAGGACCATGAACATCAAGGAGAACAAGCCATGCTTGCCCG  
TTATTGGCGGAATTGAACTCGATGCCAGATTTCTTCCAGTACGAACCCCAACCTCAGCTTC  
TAGGAAGAAGACAGTGAGGCGGGCCTTCTCGGAGGGACAGATCACGCGGCGTATGAACCC  
AACCCGGAGTGCGCGGCCTCCTGAGAAGTTTGCTCTAGAGAACTTCACTGTCTCAGCCGCT  
AAATTTGCGGAAGAGTTTTACAGCTTCCGAAGAAGGAAGACAATTGGGGGGAAATGCCGGG  
AGTACAGACGACGTACCGTATATCTTCTTTTCCGCCAGTGGAGGATATCACCGAAGAGGAC  
TTAGAAAAATGTTGCCATAACTGTTTCGAGATAAAATCTATGATAAAGTTCTGGGTAACACGTGC  
CATCAGTGTGACAAAAGACCATCGACACCAAGACAGTGTGTGCGAACCAGGGTTGCTGTG  
GTGTGCGAGGACAGTTCTGTGGACCATGCCTGCGGAACCGCTATGGGGAGGATGTCAGAT  
CGGCATTGCTGGACCCGGATTGGGTGTGTCCCCCTGTCTGGGATCTGCAATTGCAGCTA  
CTGTGCGAAGGGAGGAGAGGGGGCGCAGAAGACACAACTGGAAGAAGGTTGACATAGGA  
ATTAGACCACAAGGGGGGAAAAACATAGAGGAGAGAAAAACCCCAAAAAAAGGTATCG  
CAACAAACATGCATACCATTGGTGCCTAAGATTTTTTACAGTTGTGTTTTATACAGAAATTC  
TTTGTAGAAATTACTATTTTTTTGTTAAAGATTGTTTATATGCTTACAAAGATTTCTCAGGAAGA  
CAGCAGAGCAGAGGAATCTATATAGATGTATGCACAGACCTGTCTGTATGCTGAACTTTGT  
AAAAATATCTGCCAGTTATTTAAAAAGCACAGTTTAAATGGGGTGGGGTTAAAGTTCAGGTAAG  
TAAGTTAGAGAGAAAAACATTGTATGATCAGCTCCTGCACCTGATCTATCTTTGGCTTCCCAA  
CAGTAACCTACTCCAGGCCAAGTGTGCCTTAGCACGAGTGACCACAGTTTAAATAGACCACAC  
ACATCGTTTAACTGCTCTTGGTCAATTGGAATTTACACTGAACAAAGTGCAATTAACCTGTAG  
AACAGTTTTATTTTTATTTAAACTTGACTGAACAAAAGGGGACCATCAACATTGTAGACACTG

Table 4

GAGGCCTTACAGAGTGCTAGCCTCTTCCTTCAGGACTCACCTGGGGCCTGCTGCTTTTATAT  
TTTGAAAGAGTTTAANN

>630

NACCAAGTATAAATATAAATTACAACCCTCCCTCCTTACTATCAACGCGCCAACCCCT  
TTTTTTTTTCTTTAATAACGACAATTTTCATTTTTTAGGGTTCCAGTTCAGCTGATTTTATTT  
CCTTCTCAAAAAAGTTATTTACAGAAGGTATATATCAACAATCTGACAGGCAGTGAACCTGA  
CATGATTAGCTGGCATGATTTTTCTTTTTTCCCCCAAACATTGTTTTGTGGCCTTGAATT  
TTAAGACAAATATTCTACACGGCATATTGCACAGGATGGATGGCAAAAAAAGTTTTAAAAACA  
AAAACCCTTAACGGAACCTGCCTTAAAAAGGCAGACGTCTAGTGCCTGTCATGTTATATTA  
CATACATACACACAATCTTTTTGCTTATTATAATACAGACTTAAATGTACAAAGATGTTTTCCA  
CTTTTTCAATTTTTAAACACAACAGCTATAAACCTGAACACATATGCTATCATCATGCCATAA  
GACTAAAAACAATTATTTAGCGACAAGTAGAAAGGATTAAATAGTCAAATACAAGAATGAAA  
AACGCAGTACATAGTGTGCGCAACTCAAATCGGCATTTAGATAGATCCAGTGGTTTTAAACGG  
CACGTTTTGCTTATAAAAAAAGTGCAAAAAAGATGTGGTTTACAAGTTAAAGCTACAGAATC  
CCTTTTTGCTGTAATTGCACCAAGTTTTAAAGCCTCTGGACAGAGCAGTATTTTCGTTTTAAACT  
TTGTTTTCTTAAAGCTTACAGTGTGGCTAATTCTCCTCCCTTTTTACAAGACGGGGGC  
CGGAGGGTGGACACTGGTGGCAGTTAAGGGATACGTGCACTTTAAGAAGCCTGCAGATTG  
AAGTGTAACATGGAGAAATTAGGGGCTGATTTTTAAACTGTGTGAGATATTAACCAGCCG  
CCCTGTTATAAAATCAGGAAATCCAAACAGCGATTTACACCGATTAACACCCCTTTATATAT  
TTTTACAAAAATACACTGAGAAAATAATCAAACGTTTTTCATCTCTCTTGTCTTTTTTGT  
TAAAAGTGCAAAAGTCTACATTTAAATATAAAAAATTTAAAGTTAAACTCTAGCCCTTCAGT  
GAAGGAGACGTAAATGGCGTGGGTAACAACAACCTACCAAAAAAAAAAAAAAAAAAAGAA  
AAAATCGACACGGAAGGAATAAAGAAATAAAGGAAGTAAAAAGAAAGGAAAGAAAAAAGGG  
ACAAAAGAAAAATATGTTGGCCAGTATAAATACGTCCACATATAAATGGCATCTGATTAC  
ATTTACAAGGAAAAAGAAATACGAGGATGGAGCATCGGTGAAGGAAAAAACACGTCTTCTC  
ATTTACACCTATAAGGAATAAACACACACACTGAGAAAAATTTGGTCCTGAATTGTTTTTTT  
TAAATCCAGCACAGATTTGAGTTGCGTTTGAATCCTTTAAGAGTTAAGAATGAAAN

>631

NNNNNACGCCGGGCGCGGGCGCGCGGAGAGTGCAGGCGGAGCGGCGCCTGC  
ATTAGCAGGTATGCAAAGAAGCCTTTTACCCTGATGTCTTAGAGATAATATGGATCAGTCC  
AGAGTTCTCCTCTGGGTGAAAGCAGAACCCTTTATAGTGGGTGCCTTGCAAGTCCCCCTC  
CATCCAAGTTAGTCTTCACTATCTCAGGAAGATATCCACCTATGTGCAAATCCGGGCCACA  
GAAGGAGCTTACCCGCGCCTCTACTGGTCTACATGGAGGCACATCGCTTGTGGGAAGCTGC  
AGTTGGCCAAGGACCTGGCGTGGCTTTACTTCGAAATATTTGATAGTCTTCAATGAAGACA  
CCTGAGGAGCGCCTGGAATGGTCTGAGGTTCTGTCCAACCTGCATGTCTGAGGAGGAAGTTG  
AAAAGCAGAGAAATCAGCTTTCACTGGACACGCTACAGTTTCTGCTCTTATACATTCAAC  
AGTTGAACAAGGTCTCCCTAAGGACATCTTTGATTGGCGAAGAGTGGCCCAGTCCCAGAAA  
CAAATCTCAGTCTCCTGACCTGACTGAAAAATCTAATTGTCTATAATAAGAACTGGAATGATTA  
CAGTCACCAAGCTTTTGTCTATGATCATCTGTCTGATCTCCTCGAGCTGCTTTTAGATCCAAA  
ACAACCTCACTGCATCATTTTCACTCAACCCATAGTAGTCTAGTGTCTCGAGAAGCTGTTGTGGC  
GCTCAGCTTCTTATTGAAGGTACAATAAGTAGAGCCAGGAAGATCTATCCACTTCATGAAC  
TGCACTGTGGCAACCACTGCATGCAGATAGTGGCTTCTCAAAGATCTCTAAGACTTTCTCTT  
CTACAAACTGGAAACCTGGTTGAGGTCTGTTTGACTGGGAATCCATTTGGTACATCAGCTT  
GCCTCAAGTCTGGAAAGAAATTGGCTTGGGCTCATCAAGTTGAAGGGACCACCAAAAGAGC  
TAAGATTGCTTGAATACTCATGTGGCCCTAGGATGCACCGACTGGTAGTGATGAGCCAGG  
TTTACAAGCAGACACTGGCTAAGAGCTCAGACACTCTGGCGGGGGCACATGTAAAGATTCT  
CGTTGCAACGAATCTTTATATATCTGCTCTCTCCCTTACGATCTGTGACAATTGAGAAGTGC  
AGGAATAGCATCTTTGTCTTGGGCCCTGTAGGGACTACACTTCACCTCCACAGTTGTGACAA  
TGTTAAAGTCATTGCTGTTTGCCATCGTTTGTCCATCTCTTCTACAACAGGTTGCATCTTTCA  
CGTTCTTACGCCTACACGCCCACTTATTCTCTCTGGGAACCAGACAGTAACTTTTGGCCCTTT  
TCATACACATTACCCAATGCTAGAGGACCATATGGCCAGGACTGGCCTTGCTACAGTGCCTA  
ACTATTGGGATAATCCAATGGTTGTGTGTCAGAGAGAACAGCGACACAAGAGTCTTCCAGCTT  
TTACCACCTTGTGAATCTATGTATTTATTTCCTTTGAAATGGAAGGGGACACAACAGAG  
ATACCCGGGGGTCTTCCATCTGTATATCAGAAAGCACTGGGTCAAAGAGAACAGAAAGATACA  
GATCTGGCAGAAAACGTGAAGGAGGCTCATTTGACAAAGGATCAAAGGAAGCAGTTCCAG  
GTACTGGTAGAGAACAAAGTTTTATGAATGGTTGATTAATACAGGACATCGCCAACAGCTGGA



788  
Table 4

CAGCCTTGTACCCCTGCAGCAGGCTCCAAACAAGCAGCTGGATAAGGATCTTACATGCAG  
ACACTGGGCCCTGGAATACAAGGATAAATGGAGGATGGTGCTCATCTTGAAACTTGAACT  
AAATTGGGAAGGTGCTATTGCTGCTTAAGAGACATTGGGACTTTTCTGTCTTTTTTTTTTTT  
TTTTTGAGGCAGAGTCTTGTTCTGTCGCCCAGGCTGGCGTGCAGTGGCGCGATCTCGGCT  
CACTGCAAGCTCTGCCTCCCGGGTTCACGCCATTCTCCTGCCTCAGCCTCCTGAGTAGCTG  
GGACTACAGGCGCCCGCCACCACGCCCGCCAATTTTTTTGTATTTTTAGTAGAGACGGG  
GTTTCACCGTGTTAGTCAGGATGGTCTCGATCTCCTGACCTCGTGATCCGCCCATCTCGGCC  
TCCCAAAGTGCTGGGATTACAGGCGTGAGCCACCGTGCCCAGCCTTCTGTTCTATTTAAGAA  
CTTTGATTTCCATTCCATTTTCATTTATTACTGTTTAGGCCGAATTTTCGCTAAACTTCTGACTT  
TCATATAAACATATTGCTTATAGAACATCAGAAGACTCATCTTTGTGATGCCCAAATGAAAA  
GTTGGTGAAGGTAGTAGTACCATTTGTATGTATGTTAATATTAAAGCAACTGAGTGTAGATTTGCAA  
CTATAGTGCCTCTCTCCATTTGTGTGATCAAAGAGTTTTATTCTTTCTAGAGTTAATAAGAGT  
TTTATAGTTCTTTGTAACATTTAAAAAGGAAATTGCTACTCCTTTTAAAAAATAATTGGAAAGG  
AAGTATGATTTGTTGGTATATAGACATAGAAATAGTTTTATACTATATTTTAGTCCTTAAAGTAT  
GGAACCTAATGAAATTGTTAAAAAATCTTTATTTTTCACTTCCTGCTTCAAATTTTTAAT  
>632

GCCGCCCGGGCAGGTACTTGTTAAGCCACATTTGAGGTTTATGGTAAAAATCATCTT  
TTGAGTTTGCTCTTTGGTTTTCTTCATTCTTTGAGGATTGGGAAAACAGAAAGATTCTTTG  
ATTTGGGTAAACGAGCGCCTGTTGGTAGGAACCTGCTTGGTCGCGTCTGAGGGGGCTTGAG  
GTGGCTCTGGCTGAAACAGGCGCCTGCGAGAGTCTGTAGGAGGGAAACCGCCATGGACGA  
TCAGGGTTGCCCTCGGTGTAAGACCACCAATATCGGAACCCCTCCTTGAAGCTGATGTTG  
AATGTGTGCGGACACACTCTCTGTGAAAGTTGTGTAGATTTACTGTTTGTGAGAGGAGCTGG  
AAACTGCCCTGAGTGTGGTACTCCACTCAGAAAGAGCAACTTCAGGGTACAACCTTTTGAAG  
ATCCCACTGTTGACAAGGAGGTTGAGATCAGGAAAAAAGTGCTAAAGATATACAATAAAAGG  
GAAGAAGATTTTCTAGTCTAAGAGAATACAATGATTTCTTGAAGAAGTGGAAGAAATTGTT  
TTCAACTTGACCAACAATGTGGATTTGGACAACACCAAAAAAGAAAATGGAGATATACCAAAAG  
GAAAACAAGATGTTATTCAGAAAAATAAATTAAAGCTGACTCGAGAACAGGAAGAACTGGA  
AGAAGCTTTAGAAGTGGAACGACAGGAAAATGAACAAAGAAGATTATTTATACAAAAAGAAG  
AACAACCTGCAGCAGATTCTAAAAAGGAAGAATAAGCAGGCTTTTTTAGATGAGCTGGAGAGT  
TCTGATCTCCCTGTTGCTCTGCTTTTGGCTCAGCATAAAGATAGATCTACCCAATTAGAAATG  
CAACTTGAGAAACCCAAACCTGTAAAACCACTGACGTTTTCCACAGGCATCAAAATGGGTCA  
ACATATTTCACTGGCACCTATTCAAGCTTGAAGAAGCTCTGTATGAATACCAGCCACTGCA  
GATAGAGACATATGGACCACATGTTCTGAGCTTGAGATGCTAGGAAGACTTGGGTATTTAA  
ACCATGTCAGAGCTGCCTCACCACAGGACCTTGCTGGAGGCTATACTTCTTCTCTTGCTTGT  
CACAGAGCACTACAGGATGCATTGAGTGGGCTTTTCTGGCAGCCAGTTAACCATTATTAAG  
ATTTGGACCTTGGAGCTGAACCAGGGAGCTAGCAAAAAGTAAAGCAGACTTATAAAATTATAG  
CTATGTGCAGCTGCACAACACAGTCCTTCCACTAGCAGCTGTGTTAAAGTATTTATAAGGAG  
AAAATTTCAGAACTAAGTTGAGTAATATAGGGGATATATATTTGTGAAAAATAATTTTACTTA  
TATTTTTCAGAGGATTTGACACGATAAGCCTCATCTGATGGAAGAGAGGAATAAATAATTACAC  
CTATATGTGTTTGAGGTTGTGACAGACTTATAAAATCTTTTAAAAAATAAAGCTATAATTTATA  
TTAAGTTCTGTGGTTTTCTCTTATTACAGTGTTTTACTTGAACACATTTTAAATACCATTTTGA  
TTACAACATTTACTGTTAATANNNGNNGNNNN  
>633

>634  
TCACTAAAGGGAATAAGCTTGCGGCCGCGAGTTTTTTTTTTTTTTTTTGCAGTTTTTG  
CTCTCAGCTGTAGCCCTGACATGAAACGCTTGCTACGTTTCTGCAGCAAAGTGGGCCGAGC  
GCAGTACGCACAGGTGTGGTGTAGCCAGGGAGACCGAAGCCACACAGAAGGGGAGTCAG  
TAAATGTCCATCTCCACGGTGTCTGCCTTTGCCATTGGGAGGCCTGAACTAATCAAACGTTT  
ATTAATAGGATCCCAGCCTAACAGCAACGCTTATGTAGCACCATTCTTAGAACTACCAAGTA  
TCACACAGGTACATGTGTATGGGGACCTTCTCTTGACTGCTTGTCAAGAAAAGGATCCAGA  
GGGAACCTTCTGCCCTACTTCCATGAAGTGAGATGCAACAATCATTCTAATCTATTTTTTA  
TCTCATGTCTAAAATGAAAGTGGAGGGGAGAGGGAAGGCTCCCATTTCTACAATTATAAAT  
GCTGTCCTGGTAGCCTTTCTTCTCTTGCCGGCTAACAATTGTTCTAACAGCATCCCATGGAG  
GCCAGCAAATGAATGCCCCAGGGACTACAGCCAGAAAATTGTGCCTGTAAAATATCATATTC  
CTCTGGAGCTTGGTAATATAGAAATTTACCTCTACAGATGAGGCAAACTAAAATATTGTTGT  
AACTCAAAAAGGCTTCTGAAGTGCTGAGTTAGAATAAATATATATAGATACATACACACACTA

Table 4

CATTGCTTTGGATGCAGGTTCTTACTAATTTATATACACATGTAAAGAGAAGATACTGAAGTG  
TCTAACTGTAATTTAGCAGCAGAAAAAGAAAAGTCTTAAACATATTTGCTTCTTAATCAAGTTG  
TGTTTAAAGAAATGCATTAATACTCCTATGAATTTGTATCATTGATAGTGTATCTGGATAATCC  
CAGTAACTACAGACAGAGACCTTGTTGATGGAGGTTGCTAAATGAGGGGAACACTAATTCC  
CCCAGAGATAACATCTGAGCTGCTTTAGACTCTGGAAGTGGTTTTTCAGTACCTGCCCCGCTG  
TAACTCTGAAAACACGAACATGATTTCCAACCAATCTTTGTGCTCAGAGCCATATTGCTAA  
AAAGAAAAAGGCATTGCAGAGGCAAAGTGGACATGGGGTTAATTAACAAGGCCTCTGAATT  
CAGGTGTGGCATTAGATCCTGCAATGAATGGACCTATTTTACAGAAGTCAGCGGCAAATCT  
TTTGTATTTTTTGGTACAGATGGGGTTTTGCCATGTGGACCAGGCTGCTCTCGAACTCCTGG  
CCTCAAGTGATGCACCTGCCTTGGCCTCCCGAAGTGCTGGGATTATAGGAGTGAGCCACCA  
CGCCCCGCTACGAGTTGGGTTTTAACAGAAGAGGACCTTGAATGCTGAAGCTTCACAGGGC  
GGCCAACTAACCCTCGN

&gt;635

NNNNNCCTGATGTGGTGTCTGCCACATATGTATGTTGACATAGTTCATAGTACTG  
CGCCGGTACTGCCAGTTAGACTCCACAGACCTAATTTGGATGGGGAGAAAACTCTCATGC  
CTGACCCCTCCCCCCCCGCCAATGTTAGACCAGAGCTGTTGATCCCACACAGTCATTGTTCT  
GAAAATTCATGAACATTTCTCTCATATCCCTGAAATATCAAAGTAAGTGGCCCTATTCTCTAC  
AGATTATTTAGTTTATAAAGCTTTGCTTTTAAATCATACCATAGCTTACCTGGCTAAAACTTTGC  
GTATAAAGGGGAACTTGCTTTAATCTGTGGGATTGCGGACCCGATGCGACTTGCAGAAGG  
TAAACCGGCGTGGGTTTTGTGTGCGTTAGGTTAAGGTGTTAGTGGAATTTAATGTATCTTGT  
GAAGTATGGTTACTAGGGTAGGTTCAAGAGCTACATGCCCTCTGGCTTTGAACCCATCTATT  
AAATCTTTTTAATGCTGTACTAAGATAAATGTGAAGTCTGAGTAAGGTTGCTCTCAGAAAA  
AAAAAAAAGCATATATATATAAAATAAAATTTAGGCCATGGGAAGTGGCATTCTTACTTGG  
TATAGGAATTTAATGAGAACCATAACAAAAATACCAGATCTCCTTTTGAGATCGTGGACAA  
TCAGGCCCTTTGGACAATCACCGCTTCCAGTGCCCGCTGTGCGTTGAGGTTAGAGACCTACC  
GTTTACACGCTAGAGCCGAGAGGACGTTCAAGTTTCTTAAAGATGCTGTTGGTCTTTTTCTT  
ATGTTATTGTTTTAGTTTTGTGATTTTGTGAATAATTGAAGTTCAGAGTCACCCGTGGCTCCT  
AAGGAAAAACAGCATCATGAAAGGCAAAAGTATTTGAAACGTAATTGTTTCAATTTTCCAC  
GCCCCGTTCTCACATGCCCCCTTTAGCTTTATTTCTGGGAACATGCTACTAGACCTCAGCTAG  
CCTGACACCGCAATAACCCGTTAGGCTTTGAGGCTTTTCAAGTGAATCTTGACATTTAAATCT  
TCTTATAGAATTTCTTATGAAGCCTTAACTAATTTCTGTTTTTGTCTCCTCAGAACTTTTTATT  
GCATCTGCCATCCTTCATTGGATTTTTGTTTTGGTTTGTGTTGCCATTCTAGCAATGAGCTTA  
GTCTTGTACATCTGCATTAAGGTGCCGATGCAGAAGGCAAATTGGAAACACGCGCCAGCG  
GCAGTGGGGCTCAAAGCCGACCTCCATGCATCATTCTCTAGAGTTGAAAGGATTGACATTTCT  
TCAGTAACTACCCGGCAAAATATATATTTTATAATGTTGAATTTGCCTTTTAGGAAAACAATG  
TTTCATGAAACACTTGTAAGATACTTATTTTGAATTAATTATAAGGCATTATTTTTAGGAC  
TGAATTCAAAGGGAAATGCTTCTTTGACTTTTTTTCATTGTTGCGTTGACTTTTCACTTTCTGG  
AGTGACAAAGCAGCAGTGATGGGTGCTATTCTGGTTCTGTGGTGGTTTACTTTGTCTACTA  
AGTGATTTTACTTTCAAACCTCATTACAGATAATCTTACTAAAAGACTTAACATGCACACTGCTA  
AAAGGTGTTTTACTGTTTTCCATTAAACGCTGTTGTATGAACAATATTTGGTGACATGTTGTCTT  
TTTGTCTGTAGATTGTCTATCTGTTATGTAGTTATCCTTTTGGCAAGTCCTTTGATTTTTTT  
TCCTCTAGAAAATCCTCAGACTGTCAATCTTCCATATTTTGAATATTATAATGCTGTGGCCATT  
TCTATAGAAAGATTACTTGCAAGTGTGTCTTGAATAAACCTCTTGATTTGTGTGTTTATG  
TGAGTTCTGTCTAAGAGATCAGATAAGCTCTGGAAGCTTCATCATCTGTACCTACATGTAAT  
GTATCTGGGTTACATGGGCAGGCGGTACCAAGTCCTGCTCTTCGATGGGGTGGCTGAGAGA  
TAAAGGTTCTGAACTCTCCTTGCTGTGTATGCACCACATCTGTACTTCAGAGAGGTGGAAA  
ATCATCTACAACACTGCGTTTCTTGTGGTTGTGCTGTTACTGGTATAAAGTCAAGTGCCTTCA  
ATGCTAAAGGCTCAGAAATTTTTCTTAAACTGATTTTCATGTCCTATGCGAGCTTGTTCTTAC  
AACCTGCATAACCAGTACTTGTGTAACACTTGTACGCTTCAATTGTACATGGTGCTTCTTA  
ACGCAATTTATAGCATTTTTATTTAAGGTACCTCCAACTTGAATTCGTCTGTGTGAAGCATTG  
TAAACGATACATTTCTCTTTGAGTACCATTACAGTTGTACAGAGGTTTTCACTGCTTCTATT  
TTTCTACTGATACTGACTAAGCATGNNNNN

&gt;636

1ATAGGGAGTCGACCCACGCGTCCGGGTTTGGTGGAGGACTCGTTGGGGAGGTTG  
GCCTGCGCTTGTAGAGACTGCATCCCCGAGACGATGGCGGAGGGAGATAATCGCAGCACC  
AACCTGCTGGCTGCAGAGACTGCAAGTCTGGAAGAAGAGCTGCAAGGATGGGGAGAAGTG

Table 4

ATGCTGATGGCTGATAAAGTCCTCCGATGGGAAAGAGCCTGGTTTCCACCTGCCATCATGG  
GTGTGGTTTTCTTTGGTGTCTGATTATCTACTATCTAGATCCATCTGTTCTGTCCGGCGTTT  
CCTGTTTTGTTATGTTTTGTGCTTGGCTGACTACCTTGTTCCCATTTCTAGCGCCTAGAATTTT  
TGGCTCCAATAAATGGACCACTGAACAACAGCAAAGATTCCATGAAATTTGCAGCAATCTAG  
TAAAACTCGACGCAGAGCTGTGGGTTGGTGAAACGCCTCTTCACACTAAAGGAAGAAAAA  
CCTAAGATGTACTTCATGACCATGATCGTTTCCCTTGCTGCGGTTGCTTGGGTGGGACAACA  
AGTCCACAACCTGCTTCTCACCTACCTGATAGTGACTTCCTTACTATTGCTTCCTGGACTAAA  
CCAACATGGAATCATTTTGAAGTACATTGGAATGGCCAAGAGGGAGATAAACAACTTCTCA  
AACAAAAAGAAAAAGAAAAACGAATGATTCATCTGCTTTAATCAGTGTGATTAATGCAGCACCC  
ATTGCCCGGGAACCGTTTCTGCTGTACTATCTGGATACTAAAATGTTACGGAAGTAGCTCT  
TTGTTCTCCCTCACTCTGCCCTTAGTTAATAGAAATTCAGACTCGCCAAGTAAGGCTTCGTGC  
ATAGTGTCTTCATGTGCGGTATAGTTGAGCGCGTTCTTAGCAGTTGGCTTCATGGACAACCTC  
ATTAGTGTCTTACTTTCTTACCCAGCGTTAATTGAATCTTGCTTTAGACAACCTCCTTTTT  
GTAGTGGTGAACCTTGCCCTTAGTACAGTTCAAGTGAATCTGGATAATTGTTTCATCTTTGCT  
TAGCTTAGATACCATGTAGTGGTCTGTGGCTACAGGAAGCTGGTCTGTCTGCTTCCACAG  
TCTGCTTAAAAAAGTGTGACTTCGTGAATATAGAGACCAAGTTTACCATTCTGATGAAGA  
GACCAATTAAGATTCTTCTCATTCTGTTTCTTTCCAGTGGGAGAAGAGTCCCCATGAAATA  
AGATGAACTGATTCCATGCACTAGTACATGTAGGCTTCTCCCTTGTCGAAAGCTTAGCAATT  
TGTAGGAACTTTGATCTTTTTGTCCAAGAAAAGGAATGTCTGACAGGCTTAAGCTTCGTCC  
CCTTGCACTTAGACTCGAAGTTAGTAAATCCTTAAAGGCTTTTTAATAGCAGACTTCCAAAAG  
ATTGCATTTAGGATTTCTAGCATGCTTTAATTTACAGATTTTACAGCTGACATTAGCTATAGTAT  
ACAGTAGGTTAAGACTCATGTCTATGACTTTCACTCTAAGACTGGCAAAAGGACAGCAGTCT  
TCTATGTTTAGTCAATATTCATTTACAGTAGAAGATAATCTTATCTAATTTTTGAGACCAGAATA  
AGCCTTTTAAAGTAAACCTCAAAATTATCATTTTATGGTAATACTGACCATTTTAGTCCCTAG  
GTTTGACATGGGAGATAGTGACTACACTGGTGTCTGACTTTTTTCTAGAGATTTCTCCCTGA  
AAAATACAAGGGCTGTTGGTGAGAGCAGACTTGAGGTGATGATAGTTGGCCTCTGGTCTACA  
AAGATTTTCAATAACTCCTTGGAAGCTTCTTATAATCATTCTTAACTTCTTGGTAGCTAGAAAT  
TAGAGTAGTTGAAATCTTTAGGAATGAACCTCTGAGGGCCAAAAAATGTGACTGACGGGAAC  
AATCTTAACTGATTAAGTACTAGCTGTAATATAGTTTTGTGAATTTATTGCACTGATGTTGTACC  
TTGTGGTATATCTGTCCCTATTAATAAGTGTTGTTTTCTCCTCTTTAATATTGCTGTGAACAG  
TGGTGCCCATTTAGTCATATGTTTGATTTTTTTTATTATTTCATAAGAAAACACGTTAATTTT  
ACCTTACTTTTCAATTGTAAATAAGCCTGTCTTCTCTATCTGGATTTTTTGTGTGCATACATTTCT  
ACTGATTAAGTACTTTTGCAGTTTTAATCCTGTATTATTTCTTCTACTTTGTTTTGTGTAAGG  
GGAAAAAATAAAAAAGCTGGAATCTTAAAAAAGCTGGAATCTTAAAAAAGCTGGAATCTTAAAAA  
aaa  
aaa  
aaa  
gagagggcgaggagaaatgatcgagcccgctgcagatggtacagaacgcttagaagcaaacgaggaagcaagagtc  
tgatacgatagaacagggcggtgcagcgcggtcaccaacaatactgagacgaacggaagcagagacagagcgagcattagg  
agtaagaggagagagccacccacgccccggggcaggcacagaggagcacagaaaaacaaagacacatgaacaggggg  
acgcagaacaagaaaacgacgcagcagggcacacaaccaacaacaga  
>637

NNNGGACCGCCCTTTGCCCTTTGAACNCCCTTTNGNTCGGGACGCGCGCCATTG  
TGTTGGTACCCGGAATTCGGCCATTATGGCCGGGGGCGGGTAAACAGACATGGCCGGCG  
AAGGAGATCAGCAGGACGCTGCGCACAACATGGGCAACCACCTGCCGCTCCTGCCTGCAG  
AGAGTGAGGAAGAAGATGAAATGGAAGTTGAAGACCAGGATAGTAAAGAAGCCAAAAACC  
AAACATCATAAATTTTACACCAGTCTGCCGACATCACATACATACCTAGGTGCTGATATGGA  
AGAATTTTCAATGTCAGGACTTTGACAGATGACGACAGCTGTCAGGTGATTCCAGTTCTTCCAC  
AAGTGATGATGATCCTGATTCCCGGACAGACATTACCTCTTCAGCTTTTTACCCTCAAGAAG  
TCAGTATGGTGCAGGAATTTAATTCAGAAAGATAGAACCTTTGCTGTTCTTGCATACAGCAATG  
TACAGGAAAGGGAAGCACAGTTTGAACAACAGCAGAGATATATGCCTATCGAGAAGAACA  
GGATTTTGAATTGAGATAGTGAAAGTGAAGCAATTGGAAGACAAAGTTCAAAGTCTTG  
AGCTAAGAACACAGTCAGATGGAATCCAGCAAGCTAAAGTGCAAAATCTTCCCGAATGTGTG  
TTGCCCTCAACCATGTCTGCAGTTCAATTAGAATCCCTCAATAAGTGCCAGATATTTCTTCA  
AAACCTGTCTCAAGAGAAGACCAATGTTTCATATAAATGGTGGCAGAAATACCAGAAGAGAAA  
GTTTCATTGTGCAAACTCACTTCATGGCCTCGCTGGCTGTATTCTTATATGATGCTGAGAC  
CTTAATGGACAGAAATCAAGAAACAGCTACGTGAATGGGATGAAATCTAAAAGATGATTCTCT

Table 4

TCCTTCAAATCCAATAGATTTTCTTACAGAGTAGCTGCTTGTCTTCTATTGATGATGATTG  
AGAATTTCAGCTCCTTAAATTTGGCAGTGCTATCCAGCGACTTCGCTGTGAATTAGACATTATG  
AATAAATGTACTTCCCTTTGCTGTAAACAATGTCAAGAAACAGAAATAACAACCAAAAAATGAA  
ATATTTCAGTTTATCCTTATGTGGGCCGATGGCAGCTTATGTGAATCCTCATGGATATGTGCAT  
GAGACACTTACTGTGTATAAGGCTTGAACCTTGAATCTGATAGGCCGGCCTTCTACAGAACA  
CAGCTGGTTTCTGGGTATGCCTGGACTGTTGCCAGTGTAAGATCTGTGCAAGCCATATTG  
GATGGAAGTTTACGGCCACCAAAAAAGACATGTACCTCAAAAAATTTTGGGGCTTAACGCGA  
TCTGCTCTGTTGCCACGATCCCAGACACTGAAGATGAAATAAGTCCAGACAAAAGTAATACT  
TTGCTTGTAAACAGATGTGATAGAGATAAAGTTAGTTATCTAACAATTTGGTTATATTCTAAGA  
TCTGCTTTGGAAATTTATGCTCTGATACATACCTAAGTAAACATAACATTAATACCTAAGTAA  
ACATAACATTACTTGGAGGGTTGCAGTTTCTAAGTGAAACTGTATTTGAACTTTTAAGTATAC  
TTTAGGAAACAAGCATGAACGGCAGTCTAGAATACCAGAAACATCTACTTGGGTAGCTTGGT  
GCCATTATCCTGTGGAATCTGATATGTCTGGTAGCATGTCATTGATGGGACATGAAGACATC  
TTTGAAATGATGAGATTATTTCTGTGTTAAAAAATCTTAAATTCCTACAATGTGAA  
ACTGAAACTAATAATTTGATCCTGATGTATGGGACAGGTATCTGTCCAGTGCTCTAAATAACA  
AAGCTAGGGTGACAAGTACATGTTCTTTGGAAGAAGCAGGCATGTATATTATTCTAA  
GGGGTTTGTCCCTTCCATTTCTTACTCCTGAATACTGTTGGACATTGCAATCGTTAATGCC  
GTTGGCCAATATGATTCTAGTGCCGTAAGGTGGGTGCTTGAAATACCTTGCTCAATTTTC  
ATTGTGCATAGGAAGAAGTCCGGAAGTTTGAATAAAGAGTAAATATAGTCAGCACCTA  
GCTAGAAACN

&gt;638

CCACGCGTCCGGTTCCAAACATCTGGTGACTTCCGGAAGCTCTGTTGACTTTGGC  
AGATGGCAGAAGAGATGAAAGTCTGAAAGTGGATGAGCATCTGGCCAAACAAGATGCCAG  
ATTCTCTATAAGCTGGTGAGAACAGATGGGGCACGGATGAAGACAAATTCAGTGAGATCCT  
GTGTTTAAGGAGCTTTCCTCAATTAACCTAAGTACAACTCACATTACAATCCTTTGTGTTGT  
ATGTTGTTTTACAAATGTTTTGCATTTAGTATACAAAGATCTAGCAAAAACGAAGTTAAAA  
TTGCGAAGTCTGTTCCAGTTATTCACACTTCAGGAAACAAATGGGAAAGCTGTATTGTAAC  
CAAGGAAGTACTGACACTACACTTTTGTTCATAGAGGCTGAGTAGATTACCTAGTGAGT  
ACCAGGTAATAGATGGGGGAGGGAGGTGGCAGGGAGAAGAAAAGAGGCCACCCTCTAGGG  
TGAGAGTAGAAGGGCTTGTTCCTGTGGAATGGAGAAGCCCACTGCTTCCACTCCACCTAA  
CAGTTCTCCCTAGTTAGCCACTTCCAGAAAAGCCAGACACTGCAGGTGAGTCTCTGTTGACA  
CATCAATAGCTGATTAACCTTTAGCTATTTCTGATATGAAGGTAAGTGGTAGAATGGATCAACT  
CTTATCGTCAGACCAGCTATTACATGGAATTGTGGGCACCCGCCCTCTTGCTCATGGCATCT  
CCTAGAACTGTTCTGGAAGCAACAACACCTAGAAAACCTTCAATTTACTGTGAACATCT  
TCTGACTGTGGCTTCCAGATGCTAGTTTACAGAACAACCACACAGCAAGACCAAGCTTATGC  
TGAGTTGACGGAACAATGAGTAAACATAAGGATATTACTGTGACTTTGAAATCTGAAATTTGT  
TCTTTCTTAACTTTGCATTAAATCACATTTATTTTATAAAATAATGACAACAGTATGTGATAG  
TTGCTTTTATCATGTCTTTGTTTGAATAAACCAGATAACCCTAGGTCTCTCTCCAAAT  
TTCTTTTTTAAAAATGTATTGNGGAAAAATATACTTGGCTTACAAAATATGCCN

&gt;639

&gt;640

&gt;641

GGGAGATCTGTGTGTCAGAACGTGCGTGTGAGCGGATACAAAACCCGAGAGAGGCGT  
GAGCAGCGCTGTGTTTGCAGCGGGAGCGAGGGGCGCCGGCTGGGGTGTGTGCTCCTGA  
GCTCTTCAGAAACCAGGCTGCTTTCAGGAACATTGCTGTGGATTCCCAGCTTTCAGACAACA  
CATGACTAAGACAGAATGAGACCACTCTAGTTGCCTCATGGGAACTCGGGAAAAGACTGCA  
AAAACAACATTGTTCTCCCTTTGGAATTCTGGAGTTATAAGGCAGAGGTCCCCATCTTCCC  
GAACTGGCCTATTCCACTAGAAGCAAGATGGCTGAACTCAATACTCATGTGAATGTCAAGGA  
AAAGATCTATGCAGTTAGATCAGTTGTTCCCAACAAAAGCAATAATGAAATAGTCCTGGTGCT  
CCAACAGTTTGAATTTAATGTGGATAAAGCCGTGCAAGCCTTTGTGGATGGCAGTGCAATTC  
AAGTTCTAAAAGAATGGAATATGACAGGAAAAAAAAAAAAAAAAAAAAAAAAAAGGT

&gt;642

NNCGTCCGCCCGCGCGCGTGGGCGGGGTCCGGGGCGGGGCCGAGGAGCAGTA  
GGTGTTAGCAGCTTGGTCGCGACAGGTGCGCTAGGTAGAGCGCCGGGACCTGTGACAGGG  
CTGGTAGCAGCGCAGAGGAAAGGCGGCTTTTAGCCAGGTATTTCAAGTGTCTGTAGACAAGA  
TGGAATCATCTCCATTTAATAGACGGCAATGGACCTCACTATCATTGAGGGTAACAGCCAAA

Table 4

GAACTTTCTCTTGTCACAAGAACAAGTCATCGGCTATTGTGGAAATATTCTCCAAAACACCG  
AAAATCTCTCCCAGCACCTTTAGAAAAGGGGACCCTGACTGTGTTAAAGAAGAAGTGGGAGAAC  
CCAGGGCTGGGAGCAGAGTCTCACACAGACTCTCTACGGAACAGCAGCACTGAGATTAGGC  
ACAGAGCAGACCATCCTCCTGCTGAAGTGACAAGCCACGCTGCTTCTGGAGCCAAAGCTGA  
CCAAGAAGAACAATCCACCCCAGATCTAGACTCAGGTCACCTCCTGAAGCCCTCGTTTCAG  
GGTCGATATCCCACATCAAGGACGGTGAGGATCTTAAAGACCACTCAACAGAAAGTAAAA  
AATGGAAAATTGTCTAGGAGAATCCAGGCATGAAGTAGAAAAATCAGAAATCAGTGAAAAA  
CAGATGCTTTCGGGCAAATAGANNNNNNNN

&gt;643

NCGCATATCTGGGACAGTCAGGCCGGGTGTGAATCGATGGCTGCTGGGCGACCAC  
TTCCTGACAGAAGAAAAGATGTGGAGTGGGCTGCTACCTCCTGGCCTAAATGAAAGTGACG  
CTGAGTCAAACCTCGGAAGATGAAGCTACGTTGGAGAACTCTGGACTTAACCTACAGGAAGAT  
AAAGAGGATGAGAGCATCAGAAAAACAGAAATCATAGATTTCTCAACAGATGAACCAAAAAAC  
TGAAACAGAGTCAAATGTAAATGCCTATGAAGAGTGTCTTCTGGAATTCCCATAGATATGTG  
GAATAAATTTCAAGAATTGCATAAAAAACATTCTGAACAGAAAAGCACAACCTCAAGATTCAG  
AGGGAAAAGAAGAAAACGCTCCAGAAAAGATAAATTGAAGAATGAAAAAGAATTACATAGTG  
AACCGTCTCAAATGAAACCCAGTGGAAAGAGCTTACTCAGTATTTTGGAGTCAATGATAGA  
TTTGACCCGCTGTTAAAAGGAAAAAAGTTGAGAAAGTCAGGCCCTTGAAAAGAGGATAGACCA  
GGCTGTGGAGGAGTGGAAATTTGAGAAGGCTGAGGAACTCAGCAACCAGCTAGCTACTCGA  
GAGCTTGGTGTAATAAATTGCCAAAGCAGTTGCCTGCCACAACCTTTGTAAGCCAAAAAGGA  
GGTTGAAAATTCACAGGCTGCCCGAAAAAAGAAGAACTTGCATGGGGGTTTGAAGCAAAG  
AAGAGATGGGAAACCAAAAGCAACATGGGATACATGTAACCTGCCAGAGTGCTTCAAGACAT  
TTGTAGACTCAAATGCTCAATTTACTGAGAATGTTTTCTGCCTATGTTAATATGTCAGAAAAAT  
TGATAGCACTAAAACAAAAATAAGCATAAAATTTGGGATTTTGATTATCAGCTCTTTTCAGTCT  
TTCTTTAAGGACTTTGTCTATTGAAGTGAATAAAATGAAGCATTCTGTTATTTGTATAAGAAA  
TGTAAGAAAAAAATATAGAAAGAAGAGGATAGGATTTTGTATTTGTATGGATGGACCCCT  
GGTATAAAATCACTTTTGGCGCTTTCCATTCAATTTGGTTTAGCACAGCCAGTGAGCTTCTCGT  
GCCTCGGCCGCCACCGCGGGAGCINN

&gt;644

GCGGCCGCCCCGGGCAGGTACGCGGGGACGTGACATGGGTTGGAAGATGGCGTCT  
CCCACAGACGGGACAGATCTGGAAGCATCTTTGCTAAGTTTTGAAAACTTGACCGTGCCTC  
ACCAGATCTTTGGCCAGAACAATTACCAGGTGTTGCTGAATTTGCAGCTTCCTTCAAAAGTC  
CTATTAGTCTTCCACCCAAATGGATGGCTGAGATAGAACGTGATGACATCGACATGTTG  
AAAGAACTGGGAGTCTCACCACGGCTAATTTGATGGAGAAGGTTTCGAGGCCTACAGAAC  
TAGCCTATCAGCTGGGGCTGGATGAGTCCAGAGAGATGACACGGGGGAAATTCCTCAATAT  
TCTAGAGAAGCCCAAGAAGTAGCAGCTGCTTGCAGCAGGATGTCTGGGGTCCGAAACCA  
AGCTCCCTTCCCGGTGCACCTCTAACAATGCACACCTCACTGCTTGGTGGGAGAGGCCAG  
AGGGTGTACCTCAGGACTGCCCTACTCCCCTGCTCCTGGCCACTCTACACGTCTGAGGAC  
ATTGAGCAGCAACGAGCAACGCAATCTGCTCTACCCAAGGATCATTGCAGTCACTCAATCAA  
CTTCAGACTTGAACCTTCTTAGCCTCGGATATCGGCCACTAGCTGCAGGCCTATCAAACCTT  
ACAAGGATCGCAACTCCTGCATCTCTCCATCTCTGCGAACGTGATTTCAGGAGACCCCAAGAT  
CCTTACCGCACGCATTGCACTCAGCCATGGCAATCACTCGCGACCCGACGACGGATACATC  
CCACAGCATTGGCCTGGAACCTCATAGCAAAACGGCCACCATGTTTCAGGAAACCCGAAACCA  
GATTGCATTTCGGAACCTATCCCTGCGACCGTACATGGTGAACACCTCCGGATGCTAATCAG  
GTTCCCGCGATCCCCCTGTACGCAACCCGAACATGTCGCGCAAGAGCATATCGGTGTCAA  
GATTATACCCACAGAGCGCCACAGAGACACTATGAGATGCAGCCACACCAATCAGACACT  
CGACAAGCACCCAGCACCGGGGAAACCACTACACGCCACTCGGGTACAAGAAGAACGAACG  
CINNINN

&gt;645

NNAAGTGGCTTTATAATAATTGCCTTACTCCTCTGATTGGAGTAAGCCAACTACTGGT  
AAGGATAAAAAATAGGTCAATAGGTCTGGATTGATGCCATGCTGGTCCTGGGAAGTCCATCC  
TAATTGCTCAGCCGCTTCAGTGCTGTGGGTAGATTCTCTACGTACGGTAAACAAGACTCC  
TCAACCTTCCCGGTAGGCAAGTGCTTAGAAGAAAAAGTTTCTGGTCTAAAGGATAGAGTAGG  
AGGGCCAGCAGTCTTTGGGTGTAAACAGGAAGCCTGGCATTCTCATGACTTTGTTTCTTGTA  
ACAAGACTCTACACTCATTGGCACTGTCAATATATAGGAGGTGGACAGGCCATCTGCTTGCC  
TTGGAGCATCCCTTTCATTCTACCAACCTCCAGAAATAGACAAAAAGGCAGTCAAAGTGAG

Table 4

TAAGCACACGAGTGAGGCTAACGCTGGAGCAGCAGGTGGCAGTCCTGGCATTCTTGGGT  
GCCAATATATAGGCCTCCCTGAAGTACTTCCTTATTGAAGAGTTTTAGCCCTCTACGGAAAAAC  
CAGCCACATGGCAGTGATTGGGAAAAAAAAAAAACTTTCTTCGGCTAACTGGTGGATGTTAG  
CTTTCAGTGCTGTGTCCTTGAAGAATGTTGCACATGCTTCAAAGGTTGCCAGTTTTCCATAA  
AGTACAATTCTGTGGTTCTTACTTGGAACTGCTTTATTTGGCTTTGGGAGGCCACCTCTTAGA  
CTCTGCGTTGTGGTCTTCTAGAGTAAATCTTCCAGGGCTGACTACATTCTGGAGTTCCCTTA  
CGAACAGCTTCTCCTCTGTATATTTTTCCCACTGTTTCCTCCTCCTTCTCATGTATTCTTAGA  
GGTCCAATATTCTCTTGAACCTTATGTCTTCTTAGTCCCTTTCAAATGCTTCAGTAAACGCCT  
GTGCTTGGAAATTGGCGGACATCTGTTTCTCTTGGCTTGGCTGCCTTTTTCTCTCCAAGTGG  
AACTGTTTGTGTTTGTAACTGGAGATGGAGAGAGCGAATGGGATCTGTANGGTGGCTTTC  
ACGCATGGAAAGTCCTGGCCTTGACTTCTTTGGCCATACTCCACGATGCCATCACTGTGCT  
GAGACAGTGTCTCCTCAGTTCATCCTCTACCTNCTCATTTCCAGTATTTCTTCTTTATGGT  
CAGTCTTTTCTTTAATCCN

&gt;646

NNNNNNCGCGCACGGCATACCGAGACTACACGCAGTACGGAGAGCCTACCCGCAG  
GCGGACTGTGATCTCAGGTAGCATACTAATCCTAAGCGTTGCACATATCGCGTTATGAGATG  
CCTACTGATAACAATACGGATCTGTCCGCCGAAGCCGGGCTCTCTCGGGAAGATGGCGGCTG  
TGTCGGTGTATGCTCCACCAAGTTGGAGGCTTCTCTTTGATAACTGCCGCAGGAATGCCGTC  
TTGGAAGCCGATTTTGCAAAGAGGGGATACAAGCTTCAAAGGTCCGGAAAACCTGGCACGA  
CCATCGCTGGGGTGGTCTATAAGGATGGCATAGTTCTTGGAGCAGATACAAGAGCAACTGA  
AGGGATGGTTGTTGCTGACAAGAACTGTTCAAAAATACACTTCATATCTCCTAATATTTATGT  
TGTGGTGTGGGACAGCTGCAGACACAGACATGACAACCCAGCTCATTCTTCCAACCTGG  
AGCTCCACTCCCTCTCCACTGGCCGTCTTCCAGAGTTGTGACAGCCAATCGGATGCTGAA  
GCAGATGCTTTTCAGGTATCAAGGTTACATTGGTGCAGCCCTAGTTTTAGGGGGAGTAGATG  
TTACTGGACCTCACCTCTACAGCATCTATCCTCATGGATCAACTGATAAGTTGCCTTATGTCA  
CCATGGGTTCTGGCTCCTTGGCAGCAATGGCTGTATTTGAAGATAAGTTTAGGCCAGACATG  
GAGGAGGAGGAAGCCAAGAATCTGGTGAGCGAAGCCATCGCAGCTGGCATTTCAACGAC  
CTGGGCTCCGGAAGCAACATTGACCTCTGCGTCATCAGCAAGAACAAGCTGGATTTTCTCC  
GCCCATACACAGTGCCCAACAAGAAGGGGACCAGGCTTGGCCGGTACAGGTGTGAGAAAG  
GGACTACTGCAGTCTCACTGAGAAAATCACTCCTCTGGAGATTGAGGTGCTGGAAGAAACA  
GTCCAAACAATGGACACTTCTGAATGGCATCAGTGGGTGGCTGGCCGCGGTTCTGGAAGG  
TGGTGAGCATTGAGGCCAGTAAGACACTCATGTGGCTAGTGTGTCGGAATGAAACTCAAC  
TCAATAAAAAACAAAAACCAATTGGGCAGCCAACCACCACAAACAAAAAACAACCGGACG  
N

&gt;647

&gt;648

&gt;649

ACGCGGGGAGACATGTGGAGTCCCAGCAGAGGCCAACCTGTGTCTCTTCATCTCCC  
TGGGAAAGGTGCCCCGAAGTGAAAGAGATGGCCTGGTGGAAAGCCTGGGAGAATGAATA  
AACAGACTAGGTTGAATCCATACAATGGAATGGTAGCAGACAATAAAAAGAAAATGAACTATT  
GATGCCCCCTACTGCACAGCAGAAGCTCTGAATCGTGTTCTGAATGAAAGAAGTCAGGGG  
CCTCATAGACATTCACTCCACCCAACAACCACAGAATATACATTCTTCTATCTGTACCTCGG  
CCGCCACCGCGGGAGC

&gt;650

NNNNCCGAGGTGACTGCAGAGCGGCTCGCGAGAGTCTCCCTCTGTTGCCAGGCTG  
GAGTGCAGTGGCGCGATCTCGGCTCACTGCAACCTCCGCTCCTGAGTTCAAGTGATTCTC  
CTGCCTCAGCCTCACAGTAGCTGGGACTACAGGGTTTTGGACTGATAAAGCAATGGAAGT  
GTGGCGGCGTTGGGTTGAGCGGGCTTTTTGGAAGTTTGTGGCGGAGTGAGCAGTTCTGTGA  
TATGAGCAACAATGGACCAGAAGATTTTATCTCTAGCAGCAGAAAAACAGCAGACAACTG  
CAAGAATTTCTTCAAACCCTGAGAGAAGGTGATTGACTAATCTCCTTCAGAATCAAGCAGTG  
AAAGGAAAAGTTGCTGGAGCACTCCTGAGAGCCATCTTCAAAGGTTCCCCCTGCTCTGAGG  
AAGCTGGAACACTTAGGAGACGTAAGATATACACTTGTGTATCCAGTTGGTGGAAATCGGGG  
GATTTGCAGAAAGAAATAGCGTCTGAGATCATAGGATTACTGATGCTGGAGGCTCACCATT  
TCCAGGACCATTATTGGTTGAATTAGCCAATGAGTTTATTAGTGCTGTCAGAGAAGGCAGCC  
TAGTGAATGGAATCTTTGGAGTTACTACCTATCATTCTCACTGCCCTGGCTACGAAAAAGG  
AAAATCTGGCTTATGGAAAAGGTGTACTGAGTGGGGAAGAATGTAAGAAACAGTTGATTAAC

Table 4

ACCCTGTGTTCTGGCAGGTGGGATCAGCAATATGTAATCCAACCTCACCTCCATGTTCAAGGA  
TGTCCCTCTGACTGCAGAAGAGGTGGAATTTGTGGTGGAAAAAGCATTGAGCATGTTCTCCA  
AGATGAATCTTCAAGAAATACCACCTTTGGTCTATCAGCTTCTGGTCTCTCCTCCAAGGGAA  
GCAGAAAGAGTGTGTTTGAAGGAATCATAGCCTTCTTCAGTGCAGTACAGATAAGCAGCACAAT  
GAGGAACAGAGTGGTGACGAGCTATTGGATGTTGTCACTGTGCCATCAGGTGAACTTCGTC  
ATGTGGAAGGCACCATTTATTCTACACATTGTGTTGCCATCAAATTGGACTATGAACTAGGCA  
GAGAAGCTCGTGAACCACTTAAAGGTAGGACAGCAAGGAGATTCCAATAATAACTTAAGTCCC  
TTCAGCATTGCTCTTCTTCTGTCTGTAACAAGAATACAAAGATTTCAGGACCAGGTGCTTGAT  
CTTTTAAAGACTTCGGTTGTAAGAGCTTTAAGGATCN

&gt;651

GTGATTGCTGCCCTAAAGGAGAATGCTCTTTCCTTCTCACTGGTACGCGGACGCA  
GCAGGAGGAAACTGCTCGGGCTGCAAGCAGTCTTCCAGGCTTTGCGGCTGCCAAAGGAATA  
ATTGAGACGCTGAGTTGAGCAGGTGGAATGTCAGAAAGACTGAGAACATTGTTCTTCTTCA  
TACTGCTGCTCTGTTGCCAGAGAATCCCAATTTACACTCAAAGCTTCTTTGATTAAGTGCTAG  
GAGATAAATTTGCATTTTCTCAAGGAAAAGGCTAAAAGTGGTAGCAGGTGGCATTACCGTC  
ATGGAGAGCAGGGATCATAACAACCCCGAGGAGGGACCCACGTCCTCCAGCGGTAGAAGG  
GCTGCAGTGAAGACAATCACTTGCTGATTAAGCTGTTCAAACGAAGATGTTGACCTGGT  
CCAGCAATTGCTGGAAGGTGGAGCCAATGTTAATTTCCAGGAAGAGGAAGGGGCTGGACA  
CCTCTGCATAACGCAGTACAAATGAGCAGGGAGGACATTGTGGAACCTCTGCTTCGTCATGG  
TGCTGACCCTGTTCTGAGGAAGAAGAATGGGGCCACGCCTTTATCCTCGCAGCGATTGCG  
GGGAGCGTGAAGCTGCTGAACTTTTCTTTCTAAAGGAGCAGATGTCAATGAGTGTGATT  
TTATGGCTTACAGCCTTTCATGGAAGCCGCTGTGTATGGTAAGGTCAAAGCCCTAAAATTC  
TTTATAAGAGAGGAGCAAAATGTGAATTTGAGGCGAAAGACAAAGGAGGATCAAGAGCGCT  
GAGGAAAGGAGGGGCCACAGCTCTCATGGACGCTGCTGAAAAGGACACGTAGAGGTCTT  
GAAGATTCTCCTTGATGAGATGGGGGCAGATGTAAACGCCTGTGACAATATGGGCAGAAAT  
GCCTTGATCCATGCTCTCCTGAGCTCTGACGATAGTGATGTGGAGGCTATTACGCATCTGCT  
GCTGGACCATGGGGCTGATGTCAATGTGAGGGGAGAAAGAGGGAAGACTCCCTGATCCT  
GGCAGTGGAGAAGAAGCACTTGGGTTTGGTGAGGCTTCTGGAGCAAGAGCACATAGA  
GATTAATGACACAGACAGTGATGGCAAAACAGCACTGCTGCTTGCTGTTGAACTCAAACGA  
AGAAAATCGCCGAGTTGCTGTGCAACGTGGAGCCAGTACAGATTGTGGGGATCTTGTTAT  
GACAGCGAGGCGGAATTATGACCATTCCCTTGTAAGGTTCTTCTCTCATGGAGCCAAAG  
AAGATTTTCAACCTCCTGCTGAAGACTGGAAGCCTCAGAGCTCACACTGGGGGCGAGCCCT  
GAAGGATCTCCACAGAATATACCGCCCTATGATTGGCAAACTCAAGTTCTTTATTGTAAGAA  
ATACAAAATTGCTGATACTTCAGAAGGAGGCATCTACCTGGGGTTCTATGAGAAGCAAGAAG  
TAGCTGTGAAGACGTTCTGTGAGGGCAGCCACGTGCACAGCGGGAAGTCTCTTGCTGCA  
AAGCAGCCGAGAGAACAGTCACTTGGTGACATTCTATGGGAGTGAGAGCCACAGGGGCCAC  
TTGTTTGTGTGTGTCACCCTCTGTGAGCAGACTCTGGAAGCGTGTTTGGATGTGCACAGAGG  
GGAAGATGTGGAAAATGAGGAAGATGAATTTGCCGAAATGTCCTGTCTATATTTAAGG  
CTGTTCAAGAACTACACTTGCTCTGTGGATACACCCACCAGGATCTGCAACCACAAAACATC  
TTAATAGATTCTAAGAAAGCTGCTCACCTGGCAGATTTTGATAAGAGCATCAAGTGGGCTGG  
AGATCCACAGGAAGTCAAGAGAGATCTAGAGGACCTTGGACGGCTGGTCTCTATGTGGTA  
AAGAAGGGAAGCATCTCATTTGAGGATCTGAAAGCTCAAAGTAATGAAGAGGTGGTTCAACT  
TTCTCCAGATGAGGAAAATAAGGACCTCATTATCATCGTCTCTTCCATCCTGGGGAACATGTGA  
GGGACTGTCTGAGTGACCTGCTGGGTATCCCTTCTTTTGGACTTGGGAGAGCCGCTATAG  
GACGCTTCGGAATGTGGGAAATGAATCCGACATCAAACACGAAAATCTGAAAGTGAGATCC  
TCAGACTACTGCAACCTGGGCCTTCTGAACATTCCAAAGTTTTGACAAGTGGACGACTAAG  
ATTAATGAATGTGTTATGAAAAAATGAATAAGTTTTATGAAAAAGAGGCAATTTCTACCAGA  
ACACTGTGGGTGATCTGCTAAAGTTTCATCCGGAATTTGGGAGAACACATTGATGAAGAAAAG  
CATAAAAAGATGAAATTAATAAATTGGAGACCCTTCCCTGTATTTTCAGAAGACATTTCCAGAT  
CTGGTGATCTATGTCTACACAAAACCTACAGAACACAGAATATAGAAAGCATTTCCCCCAAACC  
CACAGTCCAAACAAACCTCAGTGTGATGGAGCTGGTGGGGCCAGTGGGTTGGCCAGCCCT  
GGGTGCNNN

&gt;652

NNCCAACCTGCTCCTGCGCCGCGGTGGCGGGCCGCGCGGCTCCGAGCGCCGGAA  
GGGCCAGGTCTCAGGGCTCCTGGAGCTGCAGGCGGCGGGAGGGGCTACAAATGCTTGACT  
CAGTGATGCAGAACCTTTCAGAGTTAGCTGGAAGCCACAGCCCTGCCTCTTGATGCAGCCT

795  
Table 4

GGATCCAGCCGGTGTGAAGAGGAGACCCCTTCCCTCTTGTGGGGTTTGGATCCTGTGTTTC  
TAGCCTTTGCAAACTCTACATCAGGGATATCCTGGACATGAAGGAGTCCCGCCAGGTGCC  
AGGTGTATTTTTGTACAATGGACATCCAATAAACAGGTAGATGTCTTGGGAAGTGTCAATTGG  
AGTGAGAGAAAGAGATGCTTTCTACAGTTATGGAGTGGATGACAGCACTGGAGTTATAAACT  
GCATCTGCTGGAAAAAGTTGAATACTGAGTCTGTATCAGCTGCTCCAAGTGCAGCAAGAGAG  
CTCAGCTTAACCTCACAACCTTAAGAAGCTACAAGAGACCATTGAGCAGAAAAACAAAGATAGA  
GATCGGGGACACGATCCGAGTCAGAGGCAGTATCCGCACATACAGAGAAGAGCGAGAGATT  
CATGCCACCGCTTACTATAAAGTGGACGACCCAGTGTGGAACATTCAAATTGCAAGGATGCT  
TGAGCTGCCCACTATCTACAGGAAAGTTTATGACCAGCCTTTTACAGCTCAGCCCTAGAGA  
AAGAAGAGGCACTAAGCAATCCAGGCGCCCTGGACCTCCCCAGTCTCACGAGTTTGCTGAG  
TGAAAAAGCCAAAGAATTCTCATGGAGAACAGAGTGCAGAGCTTTTACCAGCAGGAGCTG  
GAAATGGTGGAGTCTTTGCTGTCCCTTGCCAATCAGCCTGTGATTCACAGTGCCTGCTCCGA  
CCAAGTGAATTTTAAAGGACACCACTTCCAAGGCAATTCATAGTATATTTAAGAATGCTAT  
ACAAGTGTGTCAGGAAAAAGGACTTGTTCAGAAAGATGATGGTTTTGATAACCTATACTA  
TGTAACCAGAGAAGACAAAGACCTGCACAGAAAAGATCCACCGGATTCACTTCACGCAGG  
ACTCGCCAGAAAAACCCACATCCCTGGAGGCGGGCTGCCACTACCCAGGCTTCTTGGCC  
TGGTGCCTGAACAACAGCCGGGACTGAGCCGAGGCGGGCCGCAGCAGTCCGGGAGCC  
CGGGAGACCCGAGGGCCATGGCGGACACGGGCCCTCAACGGCCTCGGGGAAACACCGGA  
CACCGCGAN

&gt;653

NNNCAGTGGCCTGCTAAACATGCACTCTCTGGTTTAAAGTTTGCCAAAGGTGGTGC  
TGCCCCATATGCCACTGTGCCAGCTGACATATTCTACTTAATAGAATTATAGAGAAATTTT  
TCATGTTTTCTTTTTCTCTCCCACTTTTTCATATTCCTTTTTTCATTTTGCCTTCCGTTTCT  
GTCTATGATGTAGGCTTCTGAGGAGAACCAAGAAGCTTGGCTTTAGTGGTAGAATGACAGAA  
CTTAGGGATCCCTTGCAAGGCTAGAACAAGTTCTGACCTTAGACCAAATCTTTATGTTAAGA  
GTTTTCCAGAATTCAAAAAAAAAAAAAATCAATCAACACAACACACACACATACATACAT  
ACACTGCTTTTAAAGGAGGAGCCAATATTGTTGTACCTGTGAAGTGAAGGAATTATAGAT  
AAACCTTAGGTCAAATCATTTACAATTGCATTGGTGGTATTGAAAAATGATGAGATTTCTCT  
GACAGAGAGCTTTGTCTAGTTTTTGTCTTTCATAGGTCAAACTGGCAATATTCTCTGTCT  
GCAAGATAAAGTGTGTGCTTCTATCACCATATGCATGAACATGTAAGAATCAGATACAATT  
TCTGCTTCATCAGTTTCACATGTTTGTCTGCTGCAAAAAATGCATCTACTGTTTATGCTC  
CCAAGGAGACCCCAATCCTTTTTTTTTCTTTTGTAGATGGAGTCTTGTCTTGTGGCCAGGC  
TGGAGAGCAGTAGCGCGATCTCAGCTCACTGCAACCCCCACCTCCTGGGTTCAAGTGATTC  
TCCTGCCTCAGCCTCCCCAGTAGCTGGGATTTACAGGTGCCCGCTACCATGCCTGGCTAAT  
TTTTGTATTTTAGTAGAGACAGGCTTTCACCATGTTGGCCAGGCTGATCTCAAACCTCCTGAC  
CTCAGGTGATCCACCCACCTCGGCCTCCGAAAGTGTGGGATTACAGGAGTGAGCCACCGC  
GCCTGGCCCCGTATTCTTTTTTATACTGGAAAAACATTTTTTTGTAATTTTTCTTTGCAAGA  
AATGAGCATAAAAAATGAATACTCAAAGAAAAGGAATTATTATGGCAAATTAAGGGACACG  
GN

&gt;654

ACCGGGGGCGGCGAGGTACCTGTTACCCTTTAAAGTAAGTTCTCCATCCCATAAA  
GCCATTTAAATTCATTAGAAAAATGTCCTTACCTCTTAAATGTGAATTCATCTGTTAAGCTAG  
GGGTGACACACGTCATTGTGCTATATGTATGTGACTTCCCTCCCCCTGCCAGAATACTCCTT  
GGTCAATTGTAGGTATTCTTTTGGTTTAAATTTTGCCAATGTAATTAAGGAATGGTATGTCAT  
TTTTAAATTTGTATTTCTTTCATTACAAATAAGATTGTTATGTCAGTATTGTTATTGGCTTTTC  
GTATTCCTCTTAACGTGAACCGTCTGTTTCAATGTTTTTACCTGTTTTCGTTTTAGCAAGTAGTA  
CTTAATTTAAAGTGTGAACCTTAATATATAAGATGCCAGGACCATCATATTGATGACAAAAATCT  
ATTATGTGGTTGTAGTGCATGTCTTGGAGTTAACTCTTAAGTATCAAGAAGTAAATAATTTCT  
ATTGTTTCTGTTACTAACATTAAGTGTGCAAAATGTATAAAATTAGGTACTTCGATTAGTAA  
AAGAAAAAATTTGAATGTTTTTTTTTTTATTTTATTAAGCATGCCAGTTATGCCAAGCATA  
GTAATAAAGGTCAAGTAGCATTTATAATAGAGGAAGTATTGTTATCCCTAGCATGAGTGTAA  
TGGTGATATGAAAAACTTTGTCTTGCATTATAATAATAAAAAATGAACATTTATTATGGAATT  
TCTATGAGCCAAAAATAAANNNNN

&gt;655

NNNNNNNNNNNNNNNACTTCTAGAATTAATTAACGCGGGGNGAACTACAGTGCCCA  
CGATGCACCGCGCCAGCCCCGGCCGACGGACGAGACTGACCCGGACTTAGGCGTTCCGCC



Table 4

TGGCCCGGCGGCGAGGAAAAAGGCAGTTTTGAAGCATTTAGTGGCAAAAGGGGTAGGAG  
ACGGCTGCTGAAGTGTCTACTACATTCAGGGGACCTGGAAGGCTTCCAGATATCCGCAATG  
AACAAATGAAAAGAAATTGTGAAAGAAGGCGCTTCCCTCAAGCCGGAACCTAATGAACTCCTGG  
GTCACGTGGTGCGCACGCGCCAAAGGCACACGATAAAGGAAAACGCGGGCTTATCGTGGC  
CTTTAAAAATCCGGCTTGGTGAGCTTGGGTGCGCTCTGAAGGAGAACCATTTTCCATCTCTTT  
CATAGTTTTTTTCCCCCAGTCAGCGTGGTAGCGGTATTCTCCGCGGCAGTGACAGTAATTGTT  
TTTGCTCTTTAGCCAAGACTTCCGCCCTCGATCAAGATGGTGGTTGGACGGCCTTCCTAAC  
CTTTACGGGGCCTGGCGGTGCTGACGCCTGAGCTGGTAGGGGTGGAGCAGGTAGGAAACA  
GCAAATGCAGAACTGCTGCGCGGAAGTCGGCCATGGACTGGAAAGAAGTCTTCGTGGC  
GCCTAGCGACGCCCAACACCTGTCCAAACAAAAAAGTGAACAAGAATTAAAAGATGAA  
GAAATGGATTTATTTACAAAATATTACTCCGAATGGAAAGGAGGTAGAAAAACACAAATGAA  
TTCTATAAGACCATTCCCCGGTTTTATTATAGGCTGCCTGCTGAAGATGAAGTCTTACTACAG  
AAATTAAGAGAGGAATCAAGAGCTGTCTTTCTACAAAGAAAAAGCAGAGAACCTTTAGATAAT  
GAAGAATTACAGAACCTTATGTTTTTCTGGACAAACACCAGACACCACCTATGATTGGAGA  
GGAAGCGATGATCAATTACGAAAACCTTTTTGAAGGTTGGTGAAAAGGCTGGAGCAAAGTGCA  
AGCAATTTTTTACAGCAAAAGTCTTTGCTAAACTCCTTCATACAGATTTCATATGGAAGAATTC  
CATCATGCAGTTCTTTAATTATGTCATGAGAAAAGTTTGGCTTCATCAACAAGAATAGGACT  
CAGTTTATATGATGTCGCTGGCGAGGGTACCTTCGGGAATCTGATTTAGAAAACATACATAT  
TGGAACCTTATCCCTACGTTGCCACAATTAGATGGTCTGGAAAAATCTTTCTACTCCTTTTATG  
TTTGACAGCAGTTAGGAAGTCTTCTTCTTTTATGATCCTTTAAGAACAGGAAAGATAAAAAAT  
TCAAGATATTTTAGCATGCAGCTTCCTAGATGATTTATTGGAGCTAAGGGATGAGGAACTGTC  
CAAGGAGAGTCAAGAAACAAATTGGTTTTCTGCTCCTTCTGCCCTAAGAGTTTATGGCCAGT  
ACTTGAATCTTGATAAAGATCACAATGGCATGCTCAGTAAAGAAGAAGCTCAGCTATGAGAA  
CAGCTACCATGACCAATGTCTTCTTAGACCGTGTTTTCCAGGAGTGTCTCACTTATGATGGA  
GAAATGGACTATAAGACCTACTTGGACTTTGTCTTGCATTAGAAAACAGAAAGGAACCTGC  
AGCTCTACAATATATTTTCAAACCTGCTTGATATTGAGAACAAAGGATACCTGAATGTCTTTTCA  
CTTAATTATTTCTTTAGGGCCATACAGGAACCTAATGAAAATCCATGGACAAGATCCTGTTTCA  
TTTCAAGATGTCAAGGATGAAATCTTTGACATGGTAAAACCAAGGATCCTTTGAAAATCTCT  
CTTCAGGATTTAATCAACAGTAATCAAGGAGACAGATAACCACCTTCTAATCGATTTGAAT  
GGCTTCTGGACTTACGAGAACAGAGAGGCTCTTGTGCAAATGACAGTGAAGAACTCTGCAGA  
CCTTGATGATACATGATCTCTGAAAGACTAGACTGTCTTATATTATGAGATACTTGAATGCTG  
CATGTAAGCCCTTTAAAGCAAAATCCTCAGAAATGGTCTAAATAAAACACTTGATATGCCTAG  
AGAACACANNN  
>656

GAGGCCAAGAATTCGGCACGAGGAGTTTACCTGTGTGGAGCGGCGGCATGCTTGC  
AGCTCGGCGGCAGCCTGTGAGAGCTGAGGGTCACTTCTTCGAGTAGATCTCAAGCTGCGTT  
TTCTCCTTCTCCAAAGCAGGGATGGGAAGGTGGAGGCTACTGGTTGAAGAGAAGAAAGGG  
GTTGGGGGAATGCAACACCTGCAACACTAGGGATTGTGGTTCGAGCGGAAGAGCTAATGA  
GAGCCGAGCTCAGGTATCCCAAGTCAACCAGAATCAAATGCGCAGTACGCCACAAGGCATT  
TAATGCCACAGTAACAGGGCTGTTTGACAGTGGCAGAAGAGGACGGGACTAAAGTTACTTT  
GTGCTGAGAGGGGGAAAGAACACAAAGTTTGGTCTGTTGCGTAATTGAATTTTAAACACTC  
TTATCCACAACAAACACTTTTTCTGTCCTGCTGTGTAAGACATCAGATATATTACAGATTT  
TCAAACAGGTGAGCATCCTTTACGAGCTGGGAGGTGGGAGTGGCGTGGTTTTGATGGA  
GTGAGGAGATTTGGTTGAATGAACGCTAAGATGGCCAGACGCACCTCTTCGATCTCAACTCT  
GCAGCCTGGGATTCCAGAGCTGCAACAACCACTGAATTCGTTCTGTAAACCTGTTGTCATT  
TGACGTTTCCAGGCAGGCATCAACATTTACATTGTAATTCATAGACGCTACTACTACAAAGG  
AGCTTTATTTCTCCAGCTTAATATGGTTGCTGCGGGAACACTGCAGGCGAAACGACTTTGGG  
GACGGCCCCGCGCGGAACCTTTGGGAACAACGCAAAATAGCAAAGGCGTAATTTATAACCG  
CTGCTACCAAAGAGTGAAGTATTTGTGGAAGTTCTGACTGGAATCTAGCTCGTACATATGGA  
TTGTGGAATAAAGGAGGACGTGGAAAGCTTGCCATATTTTATTTCAAGTTAATACTAAAGCT  
GCCAGACTTAATACAACCTTTCTTTAATCTTTATGGATCACATATTTTCTGAAAATTACATGAT  
>657

>658  
aagggggatttattgagaacataaaaaacataacagaacacttcataaggctactttacatgataaaataggcaaaaacaa  
catacatatttgcagcataaacacttgggtataactaatgacagtcatacaggtataagttatgagcagacaagggtattcataaaaaa  
atagcttatataactgcagtcacttgaaataaccagcacaacacctaagcttaagatcaatcaaaaaccatgatGGCCTTTTT

### Table 4

**>659**

661

Page 204 of 355

Table 4

GAGATCAGTTTCCTTTCTGGGAGGGACTCCTCATTGAGGGGGGTGCAGAAGACCTGCAGAC  
CTGCATCAACCCTGGTCTTTGAGGCTTCAACTCCTGAAAATCAATCAATTGAGCCCTACCTTT  
ACCAGACCTTTAGTCTCTCTTCTTCTGTTTTCTTTTGGCTTTCTGGACAGTGCTGACTCCAGC  
TCTTTCCTTCTTGGGATGCTGCTGCCTCTTCTCTTACCTCTGCTGCTTGAGCCAGTGTGTG  
CTCTGCTCTCTGCTTCCCTAGCCCCGCTATCCTTCTCATCCCTTACATCCAAGATGTCCTCCT  
CCTCTTGATGCTGCTGTCTTTTCTTCTTGCTTTTCTGCTTCTTCCATCACTGCATGCTCTGCT  
CTCTGCTTCCCTGGTTCACACCTAAACAGTTTCTCACCTCTATCTTCTAGGTTCAAGTC  
CTCCTCCTCCTGTTGCTGCCTCTTCTTTCTTGGCTGCATGGGTGAGCATATGCCCTGCTCT  
CTACCTCCTCTGCTCTGACACTGCCTGCAGCCTCCTTGCCTTTTCTCCTTCTCCTCAAGACC  
CCCATCTTCTCCTCTTATGGTGCCACCTCTTCTTTTCTTCCCTTCTGAGGGACTGATTG  
GTTTGCTCTCTGCTATTCAATTCCTCAAGCCCACTTGTTCCTGCAGCGTCTCCTTCTCATTC  
CCTTAGTTGTACCCTCTCTTTCATCTGAGACCTTCTTCTTCTGATGTCGCCTTTTCTTCTTCT  
TGCTTTTTCTGATGTTCTGCTCAGCATGTTCTGGGTGCTTCTCATCTGCATCATCCTTTTCAG  
ATGCTGTAGCTTCTTCTCCTCTTTCTGCCTCCTTTTCTTTTCTTTTTTGGGGGGCTTGCT  
CTCTGACTGCAGTTGAGGGGGCCCCAGGGTCTGGCCTTTGAGACGAGCCAGGAAGGCCTG  
CTCCTGGGCTCTAGGCGAGCAAGCTTGGCCTTCAATTGTGATCCCAAGACGGGCAGCCTTG  
TGTGCTGTTGCCCCCTCACAGGCTTGGAGCAGCATCTCATCAGTCAGAATCTTTGGGGACTT  
GGACCCCTGGTTGTCGTCATCACTGCAGCTCTCCAAGTCTTTGTTTGGCTTCTCTCCACCTG  
AAGTCAATGTAGCCATCTTCACAACTTCTGATACAGCAAGTTGGGCTTGGGATGATTATAAC  
GGGTGGTCTCCTTAGAAAGGCTCCTTATCTGTACTCCATCCTGCCAGTTTCCACTACCAAG  
TTGGCCGAGTCTTGTGAAGAGCTCATTCCACCAGTGGTTTGTGAACCTCTTGGCAGGGTC  
ATGCTCTACCCCATGAGTGTCTTGTCTCAGTGTCAACCCTGAGAGCCTGAGTGATACCATCT  
CCTTCCGGCCGAGGCTTTGCTTGAAGTCCATGCTTTAGCAGCTGCTCCTCAGCAAAAC  
TTCACTCCACGACTCTTGACCTCTGGGGTGACATTCATGGTGAGAAAAAGTCTCTATCCTC  
AGACTCTCACCAGAGAAGAAGAGGTGATATCATCGTCAATTGCTGGGTCCGCTCCGCGGAA  
ACATGTGCCGGACCTGACTTGTGCGCCGCCATCTTCCCCCGCGTACCCCTGCCCGCGCGG  
CCCGCTCTTAGAACTGAGTGGATCCCCCGGGCTGCAGGNAATTGATGATCAAGCTTATCG  
ATACCCGTCGTACCTCGAGGGGGGGGGGCCCGGTACCCCAAGCTGTTTGTCCNNNNN

&gt;662

&gt;663

NATGCCAGTCCCCACGACACCTCCCACTTCCCACTGTGGCCTGGGTGGGCTCAG  
GGGCTGCCCTTGACCTGGCCTAGAGCCCTCCCCAGCTGGTGGTGGAGCTGGCACTCTCT  
GGGAGGGAGGGGGCTGGGAGGGAATGAGTGGGAATGGCAAGAGGCCAGGGTTTGGTGGG  
ATCAGGTTGAGGCAGGTTTGGTTTCTTAAATGCCAAGTTGGGGGCCAGTGGGGCCACAC  
TATAATCCTCACCTGGGAGCCTGGCTGGCTTGTCTCTCTTCTGGGTCTGTCTCTGCCAC  
CTGGTCTGCCACAGATCCATGATGTGCAGTTCTCTGGAGCAGGCGCTGGCTGTGCTGGTCA  
CTACCTTCCACAAGTACTCCTGCCAAGAGGGGCGACAAGTTCAAGCTGAGTAAGGGGGAAAT  
GAAGGAATCTGCACAAGGAGCTGCCAGCTTTGTGGGGGAGAAAGTGGATGAGGAGGG  
GCTGAAGAAGCTGATGGGCAGCCTGGATGAGAACAGTGACCAGCAGGTGGACTTCCAGGA  
GTATGCTGTTTTCTGGCACTCATCACTGTGCAATGACTTCTTCCAGGGCTGCCAG  
ACCGACCCTGAAGCAGAACTCTTGACTTCTGCTGCTGATCTCTTGGGCCAGGACTGTTG  
ATGCCTTTGAGTTTTGTATTCAATAAACTTTTTTGTCTGTTGATAAAAAAAAAAAAAAAAAA  
AAAAGAGAAAAAACCTGCGGGGGACATAATATTGCGCGGGGCGGCGAGAAACAAAGGG  
GGTAGATTGACAGGGGCGCAGTGGCGCCACAACAGCGGTGCTTCCCTGTACCCCAAGTTT  
TTTTGTGACCCAGGGGTGGAACAACCTACGCGCGGCGCCCCCAATATTGGGACGGCGC  
GCGATAAAATTCAGAAAACCGCCCGCGTACCCCTGGATTAGAGTAGCGCGCCGAGGCAAC  
AGCTAGCGCAATCATGAGATCAGCAAGGGGCGACTCACCCACGCAGGCTCCATGGATGACGT  
GCATGCATCTATCCACGCGCTCTGCCTGACTCAGCTAGCCGGCGAGCGAACTCACGCG  
GCCCGCAGCTGCTCGTGAATCCCGTGCCCGCATTGACACGCAGCAGCCCCGAGCACGCA  
CTTCATGCGTATCGTTGAGCGATCCGGGACCAGCCCGGCGTGCAGCATCCCAAGCGAAGC  
GCGCCGCGAGGACCACCACTGCTGCGGCTAAGAN

&gt;664

CGACCCCGCGTCCGAGATAGCCTTTTGGAGTGAAGATGAGGAAAAGCCTGTATTT  
TATAGTCTTGGAGTGTCTTCTTTTGGCAGGACAGAGAGGAGCTTCAAGCAGTGAGAGCAA  
CTGAAGGGGTTAATAGTGGAACTTGGCTGGGTGTCTGTAACTTTTTTCCCTGGCTCTGCC  
CTGGGTTTCCCTTGAAGGGATTTCCCTCCGCCTCTGCAACAAGACCCTTTATAAAGCACAG

Table 4

ACTGGTACGCCTCCGCGGTATCTGCATCGGGCCTCACTGGCTTCAGGAGCTGAATACCCTC  
CCAGGCACACACAGGTGGGACACAAATAAGGGTTTTGGAACCACTATTTTCTCATCACGACA  
GCAACTTAAATGCCTGGGAAGATGGTCGTGATCCTTGGAGCCTCAAATATACTTTGGATAA  
TGTTTGCAGCTTCTCAAGCTTTTAAATCGAGACCACCCAGAATCTAGATATCTTGCTCAGA  
TTGGTGACTCCGTCTCATTGACTTGCAGCACCACAGGCTGTGAGTCCCCATTTTCTCTTGG  
AGAACCAGATAGATAGTCCACTGAATGGGAAGGTGACGAATGAGGGGACCACATCTACGC  
TGACAATGAATCCTGTTAGTTTTGGGAACGAACACTCTTACCTGTGCACAGCAACTTGTGAAT  
CTAGGAAATTGGAAAAAGGAATCCAGGTGGAGATCTACTCTTTTCTTAAGGATCCAGAGATT  
CATTTGAGTGGCCCTCTGGAGGCTGGGAAGCCGATCACAGTCAAGTGTTGAGTTGCTGATG  
TATACCCATTTGACAGGCTGGAGATAGACTTACTGAAAGGAGATCATCTCATGAAGAGTCAG  
GAATTTCTGGAGGATGCAGACAGGAAGTCCCTGGAAACCAAGAGTTTGAAGTAACCTTTAC  
TCCTGTCATTGAGGATATTGGAAAAGTTCTTGTTCGCGAGCTAAATTACACATTGATGAAAT  
GGATTCTGTGCCACAGTAAGGCAGGCTGTAAAAGAAATTGCAAGTCTACATATCACCCAAGA  
ATACAGTTATTTCTGTGAATCCATCCACAAAGCTGCAAGAAGGTGGCTCTGTGACCATGACC  
TGTTCCAGCGAGGGTCTACCAGCTCCAGAGATTTTCTGGAGTAAGAAATTAGATAATGGGAA  
TCTACAGCACCTTTCTGGAAATGCAACTCTCACCTTAATTGCTATGAGGATGGAAGATTCTGG  
AATTTATGTGTGTAAGGAGTTAATTTGATTGGGAAAAACAGAAAAGAGGTGGAATTAATTGT  
TCAAGAGAAACCATTTACTGTTGAGATCTCCCTGGACCCCGATTGCTGCTCAGATTGGAG  
ACTCAGTCATGTTGACATGTAGTGTCTATGGGCTGTGAATCCCCATCTTTCTCCTGGAGAACC  
CAGATAGACAGCCCTCTGAGCGGGAAGGTGAGGAGTGAGGGGACCAATTCACGCTGACC  
CTGAGCCCTGTGAGTTTTGAGAACGAACACTCTTATCTGTGCACAGTGACTTGTGGACATAA  
GAAACTGGAAAAGGGAATCCAGGTGGAGCTCTACTCATTCCCTAGAGATCCAGAAATCGAG  
ATGAGTGGTGGCCTCGTGAATGGGAGCTCTGTCACTGTAAGCTGCAAGGTTCTAGCGTGT  
ACCCCTTGACCGGCTGGAGATTGAATTAAGGGGGAGACTATTCTGGAGAATATAGAG  
TTTTTGGAGGATACGGATATGAAATCTCTAGAGAACAAAAGTTTGGAAATGACCTTCATCCCT  
ACCATTGAAGATAGTGGAAAAGCTCTTGTGTCAGGCTAAGTTACATATTGATGACATGGAA  
TTCGAACCCAACAAAGGCAGAGTACGCAACACTTTATGTCAATGTTGCCCCCAGAGATAC  
AACCGTCTTGGTCAGCCCTTCTCCATCCTGGAGGAAGGCAGTTCTGTGAATATGACATGCT  
TGAGCCAGGGCTTTCTGCTCCGAAAATCCTGTGGAGCAGGCAGCTCCCTAACGGGGAGCT  
ACAGCCTCTTTCTGAGAATGCAACTCTCACCTTAATTTCTACAAAAATGGAAGATTCTGGGGT  
TTATTTATGTGAAGGAATTAACCAGGCTGGAAGAAGCAGAAAGGAAGTGGAATTAATTTATCC  
AAGTTACTCCAAAAGACATAAACTTACAGCTTTTCTTCTGAGAGTGTCAAAGAAGGAGACA  
CTGTCTCATCTCTTGTACATGTGGAAATGTTCCAGAAACATGGATAATCCTGAAGAAAAAG  
CGGAGACAGGAGACACAGTACTAAATCTATAGATGGCGCCTATACCATCCGAAAGGCCCA  
GTTGAAGGATGCGGGAGTATATGAATGTGAATCTAAAAACAAAGTTGGCTCACAAATTAAGAA  
GTTTAACACTTGATGTTCAAGGAAGAGAAAACAACAAAGACTATTTTCTCCTGAGCTTCTCG  
TGCTCTATTTTGCATCCTCCTTAATAATACCTGCCATTGGAATGATAATTTACTTTGCAAGAA  
AGCCAACATGAAGGGGTGATATAGTCTTGTAGAAGCACAGAAATCAAAGTGTAGCTAATGC  
TTGATATGTTCAACTGGAGACACTATTTATCTGTGCAAATCCTTGATACTGCTCATCATTCTT  
GAGAAAAACAATGAGCTGAGAGGCAGACTTCCCTGAATGTATTGAACTTGGAAAGAAATGCC  
CATCTATGTCCCTTGCTGTGAGCAAGAAGTCAAAGTAAACTTGCTGCCTGAAGAACAGTAA  
CTGCCATCAAGATGAGAGAACTGGAGGAGTTCTTGATCTGTATATACAATAACATAATTTGT  
ACATATGTAAATAAAATTTAGCCATAGCAAGATTGCTTAAATAGCAACACTCTATATTTAGA  
TTGTTAAATAACTAGTGTGCTTGGACTATTATAATTTAATGCATGTTAGGAAAAATTCACAT  
TAATATTTGCTGACAGCTGACCTTTGTCATCTTTCTTCTATTTTATCCCTTTCACAAAATTTTA  
TTCCTATATAGTTTTATTGACAATAATTTAGGTTTTGTAAAGATGCCGGGTTTTATATTTTATA  
GACAAATAATAAGCAAAGGGAGCACTGGGTTGACTTTCAGGTAATAATACCTCAACCTATG  
GTATAATGGTTGACTGGGTTTCTCTGTATAGTACTGGCATGGTACGGAGATGTTTCACGAAG  
TTTGTTTCATCAGACTCCTGTGCAACTTTCCCAATGTGGCCTAAAAATGCAACTTCTTTTATTT  
TCTTTTGTAAATGTTTAGGTTTTTTGTATAGTAAAGTGATAATTTCTGGAATTAACAAAAA  
AAAAAATAAATAAACCCTACAGGAGAAAAACCCCAAAAAATAAGACAAAAACAACAGAGGAAG  
CCGAAAGTGACACGCAACACACACAGCCATATGACAAAGAACGACTCCCACTCAGAGGA  
CAACCATAAATAACCCACAGCCAGCCACATCAGATAAAGCAGCCAGATAACGAACAACCC  
ATCAACATGACAATGCGACCAACGACCACCATGCGGGAGAAACAGCAGCACCCTTCACG  
AGAATTGCAACCAGCAACAACAAGCCACCGACACGACGAACACACACAAATGACAAGA  
AAGCCCAGACCTCGAAACNN

Table 4

&gt;665

ATAGGGAGTCGACCCACGCGTCCGGCGGGGAGGTCGCTCGACTCGGGGGGCGGC  
CGCCCCGGGCAGGTACGCGGGGAGACTTTCCCTGCCGGCACATGGACCTGGCCCAACCCTC  
ACAGCCAGTAGACGAGCTGGAGCTCTCGGTGCTCGAGCGGCAGCCAGAAGAGAACACGCC  
TCTCAATGGTGCCGACAAGGTCTTCCCTTCTTTGGACGAGGAGGTCCCCCGGCCGAGGCT  
AACAAGGAAAGCCCCCTGGAGCTCCTGTAATAAGAATGTGGTTGGAAGATGCAAACCTGTGGAT  
GATCATCACCTCCATTTTCTAGGTGTCATTACAGTGATCATCATAGGCTTATGTCTTGCTGC  
AGTAACTTATGTTGATGAAGATGAAAATGAAATACTTGAATTATCATCAAACAAAACATTCTTC  
ATCATGCTGAAGATTCCAGAGGAGTGTGTTGCTGAAGAGGAATTGCCTCACCTGCTCACCGA  
AAGGCTCACAGATGTGTACAGTACATCGCCCTCTCTGAGTCGTTATTTTACTTCAGTTGAAAT  
AGTGGACTTCAGTGGTGAAAATGCCACAGTAACGTATGACCTGCAATTTGGGGTTCCATCAG  
ATGATGAAAATTTTATGAAGTATATGATGAGTGAGGAGTTGGTGCTGGGCATTTTGTCTACAG  
GATTTCCGTGATCAGAATATACCTGGTTGTGAGAGTCTGGGGCTTGATCCAACATCCCTCTT  
GCTCTATGAATGAAGTATGGAGGCTGGTCTCTGTCTGAAAGCAGTGCTCTACCAAAGTCTT  
GGAGATTGAAGGGGATCCACTCGGGTTTGCAGAGAAGATTCTGTGGATTAATACAGAAGCA  
CCAGCAACACCAGAGGGGTGGAGACTCCTTCTCTCCCGATTCTACAGTCTGGCTCTAAGC  
CCAGTAAAACAGCTCCCGAGCACTGCTTCAGCTGGGTCCAGTCTTGACAAAGGCAGGAAGC  
CAGCTAGGGTGGGGCGATAGGGTCAGCGGGTATGTCCCACTGTTGGAGGTCACTGGTAT  
TCTGNNN

&gt;666

TCCGGAAATCTACAAGAATCATAGAATTCAATAAAAAAGGTAGAAAGTAATTTTTTTA  
CTTAAAAATATAAATTAATAAATTTTTAAATCATAAGCACATAAATAGAAGTACCAGGGA  
GAAAGAAAAACCTGAAGGCACAATTTCTTTCTGTTCAAAATGTGAACCCAGGATGTCTCTAG  
ATGATGATGGATGATAGGTGGGGAGATTTTTTTTTTTTTTAATACAGAATCTCATAGTTTTGA  
TTAATTAGCACCATCAGTTTAAACACTGACTGTTAGAATAGCTGCATGGGTTTTTTCTTTAA  
ACTAATTAAGCGTTGGCTACTTAGTATAAGTAAGTATAAGCCGAATTAAGGTTCTGCTACATC  
TGTGTTTGAATATTTTTTAAACTAAATAAGTGTGGCTAGTTTTGCGGTGTAAGCAGAATT  
AAGTTCTGCTACCTCTGTGTTTGAATATTTCCCAATGGATTTTTTCATTTTTTCAGGTGCTATTT  
TTTGACCCTGTATAGACTTTAATTTAAATGAATTTGGTAACGTTTCTCCTCTGTCTCTACATA  
TATTCATGCTTTTACCTGCTCTTTTAAACACCTGCTTTTAGTATCTGAGGCACTTTTTCTGAACT  
CTACTTGTGCACTGGATCCCTCCTCTTCTCTGCCAGGCTGTGTTTACTTTATCCTTACATC  
ACCACTTAGTGATTCTTTCTTTGTATAAATAGTAAATGTCTTCATTAGCCTAAAAGGAAAG  
ACCAAATAAAACCTTTCCCTACCACTTGGATGCATTTGCACTCCTGACTTCTGAAATGCCTCAG  
CCTCCATTTTCTCCCTTCCAGTTATTCTTAGCCCAAGCATCTCTGTCTTTAGCTCCTACAA  
TTTTCTTAGGATATTCTGGGAAAGATGAGCGGAGACTGCCCGCCTTGTCAAATCTAGTGTCT  
TTTTTTCAGTCTCAGACTGCTTGACCTATGTATAACCTCCTATACTTCCCTCTTGCATACTC  
CTCTGGGTTTTCTGTGGTAGTCAAGATTCCTCCCTGAGATTTATTTCCCATGAGTCTTGACCC  
CTCCCTCAGTTGGTGCTATTTCCCCCTACCCGCCCTCCGATGATCTTATCAGAGCCACAG  
GTTCACTTTTCTTTCATGCTACCTGAATGTCCTGATAAACTGGCTCGCTCTCTTCTTACCTTC  
CATAATGGCATTACCATTACCACGCCACCCAAGATACTTACTAGGAACCTCAAAGTATTGTA  
TTCTTTTTCTCCATCACACTCATACTTAATCATCAAGTCCTTTGAGCTTGTCTCCTCTTGAAT  
ATGTCCCTCTTAATTCCTGCTGCCTTCTTAGTAAAGGCCTTCATTCTTTTTCCCTAGTAATA  
ATCTTTTCCATATGTTCCAGTTAAAATACCATGTTCTCCCTATTCTTATTACATAGCTAGCAT  
TCCTTGAAAAAAAACAATTTCTCTCAGGCCTCCATACCTTTAGCATGTTACCCACTCTGCCTCT  
GCTCTTCTGGAAGTAACTCATCCTTGAAGGCTGGGCTTCTGTATGAAGGTTGGTCCTG  
CCTCCTTACTTGAGGTGAAGCTTTGTACATGCCTGTATTACGGACATCCTCTTATTTAAGTGT  
TTGTCTCTTTCGTCATTGGGACTCCAGCACCCAGCATAGTCCCTAGTATACTAGTTGGTGCC  
GAATAAATAGTAGCTATTATTAGAAAAGGAAGGGTGAAATTGACATGGGAGTTAGTAAATGT  
ATATGGAAATGATTTTTAAAGGGAAGGTAATGATTTTCTGGCAGGAAAAGCAGCAATGACAA  
GATTACTTAAGTCTTGTGAAATAACACTTCTCTTCTTACCTGCTGCTTCCCTTTTTTACCAC  
ACACACACGCACACATACCACAGCCCTTTGAGACTGAAAGCAGCTCTATTGAGAATAGTAGT  
GTCAACTGTATTATGTAGAAATCTAAAGTTTGGGATTATTTATAGCCCTGACCTTGCTAC  
TTCTCTCCACTTTATGTGGCAGGTTTAACTCAGGTCTCCCTCATACACTTCTCAGCCTCAGC  
ACCTAACCTCACACAACACTCCAGTATTGATGCAGTCAATCTTGATAACATTTTTTGAATGT  
CCAATGTGCAAAGCACGATGTTGGAAATTATACAGAGGTGAATAAGACAAAACTCTTGCTC  
TCAAAGATGTCAGTCTTTTTCTTTGCAAGGATAACACATGTAGAGTAAATGCATAAAGGGGA

Table 4

CTAATTTTAAATGTACAGCTTAATTAATTTTTATGTATGTTAACACCCCATGTCAACCACCATGTTT  
AGGACATTTCCAGCACCCCTGAAATTTCTTCATGCCCTTCCCAGTCTGTACCTACACCTCT  
AAATCTATTTTCAATCTTAATGGCTTTTAAATAACTGGGCTTCTCACAACCATAGTGAACAGA  
AACAGCTGGGTTGTCAACGTCTAACCTAATACTTCAGGAAAACCTCATGATGGTTTCCATGTTA  
AGAGAGACATGGAGCAGGGCACTGGCATGGTGGATGGATCACGCCTGTAATCCCAGCACTT  
TGGGAGGCCGAGGTAGGGGGATTGCTTGAGCCAGGAGTTCAAGACTAGCCTGGGTAATAT  
AAGGAAAACCTGTCTCTGCAAAAAAAAAAAAAACAAAAGAGGTTCACCCCCATTTGGAAAAACT  
TCCCAGGCCAGGGGTTAGAAAAAATCATTATCGGGAAATTGGCATTGGCCAGGGTATTT  
ACAAATTCGGGGCCACTCCCCATTAAAGCTACCAAGGCCCTCTCTCCACAGCACTTGGGACC  
ACACCTACTTTACCGTCCTCTTGGGATCCAAAAAAGGCCATTTTGCCAAGTTAACTCTTAG  
GCCAAAAAACCTAGCTGGGGCGCTCCCACTACCCGGACTTCAAATCTGCCACAGCGTTCA  
GTCACCAACCACGCTGGTTCTGTACCCAAGACTTTCGATCTGGAAAGAAAGACTCGAAAAAA  
GCGATATTCAAGACTGTCTTGCAACGCAACGCAGGGAGCTCCTAACCGCGCGACAN  
>667

GCGTCCGGGCTGATTTAATTGACAATTATCAAAATTACTGAATACAGAGAAAGGCAG  
GCGATTTGTGCCCTAAAAGTGACTAACGAGCCTCTGTGACTCCCACTACAGCAGTTGCGAGA  
GATGAAAGTGGCAACAGCCTCGGCACTAGGGGTTTGTATTCTAGGAGAACGGCCGATCCG  
TCAGCGCTGGCTTCAGCCCCAGGCCTCAGATAAGTTGGGCACTGGGAAGCTCAGATGAGAC  
ATCTTGCTAGCTCCTGTTTTATTCCGCTCCAAACCTGGAGCTGAGCTGAGGCCATGGTCAAA  
GCCGACTCTCCAGTACCCCCAGAAGACACTAAGGCCATATGCCTCTCCCCACCATCATTTT  
TTTTGTCGTTTTAACAGCTGAACCTTTGTTGATTTTTATCTCCCTCTACTTATCCACCAACACGA  
GAAAGTCATCTATTTGGACGATGATGTAATTGTACAAGGTACTCTCGCTAACTGCCAAGAACA  
CTTGAAAAAGAGCAGCTGATAAGTAGGAATAACTGTCTCTCTTCATTTTTCAAATAACTTATT  
GTGCAGCAAGTTTTGACCTGCTATTAAGGTGTGAGNCAGTATTGTTGTAATGTGGAGGNNNN  
>668

TAGGCTGGGTGCAGTGGCTCACGCCTGTAATCCCAGCACTTGGGAGGCCGAGGCA  
GGCAGATCACTTGAGGTGAGGAGTTTCGGGACTACCCTGACCGACATGGAGAAACCCTGTCT  
CTACTAAAAAATAACAAAATTAGCCGGGTGTGGTGCCTGACTGTAATCCCAGCTACTT  
GGGAGGCTGAGGCAGGAGAAATTGCTTGAACCCAGGGGGCGGAGGTTGCGGTGAGCCGAG  
ATCGTGCCGTTGCACTCCAGCCTGGGCAACAAGAGCGAAACTCTGTCTCAAAAAAAAAAAAA  
AAAANAAAGATTCTATTAGAGATATGGCAGATGTAATCTCTGAGCTATTTAATTGATAAAGAA  
AAAGTAGGAGTTCTGCTTTTTACTAAGATGATAATCATTAATTATGATCATACTGATGAAAATA  
ATAAAATTGCTCTGACTGTGGTGAAGATTTTTCCCATTTCTTCATTTAGCTATTCAGAAATAT  
ATTTCAACCCTCAGTTCATAACTGATATACTGCTAGAAGTTGAGGGTCAAATCGTGGCAACACA  
CCGTGCACTTCATGGCATTGTTGAGCATGAAACAACCTCTGATAGAGCCAGAAATTAAGATTC  
GCTTATGGCTTACCCAAGGTAAATGCCAAGTCAATGGCAGAATGAAAATTCAGCTTGGGGC  
CAGGTGTGGTGGCTCACATCTGTAATCCCAGCACTTGGGAGGCCAAGGCCGGGCAGATCAC  
TTAAGCCCAGGAGTTAGAGACCAGCTTGGTCAACATGGCAAAACCCAGTCTCTACAAAAAAC  
ANNN  
TGTTGGAATTTTAAAGAAAAGAAAGGCAAGTAGCACTCAGATGGCCTTTTTTTGTAAAGTGA  
AGTCAACCTAATACTCTGGTGCTTACTTTGCAATCTTTTCCATAAGTCAAGTATTAGTGTTAA  
CAATACACTTAAGAAGTAAGGATAAACCCATCAAGGTCCACAGCTAAATAACCAGCAGATTC  
CCAGAACTTTATGTATTTGGGAAAAGTAAAATATACAACAGACATATCCCTGCCCTGATTAA  
GAGGGTAGATAAAAAACAAAACATAAAACAATTTTACTTGAGATAGTAATAAGTTATTTGAAAA  
AATACAACAGAATATAGGGAGAGAGAGCAACTACAGAAAGAAGACAGAAGGGTTCTGCTTTG  
AATAGTAAGGCTTGGGAATAGCTGAATTGTAAAACAAATCTGTCAAGTCCAAAAACGAAGATAA  
TTCCATTCAACCGCTGACTACTGAATGGGAAAGCAAACGTTGTACGTCCTTCTATTTCTCTCA  
GCAGTAACTATTACTTAAAGTCTCACTTTCCATACACAAGAGACAAAGAATCTAGTCAAAAGC  
ACATGGAATCATATCTAGTCATAGTGGTAGGTGAGCAATCAATGCCAGGCAGCTGAAAGGT  
GGGAAGTGTAAAGCCTTACACCAAGGAAAACATAAACTTGTACCTCGGCCGCCACCGCGG  
>669

GGCGGCCGAGGTACAGAGTAGGATCAATAAAATCTGTGTGTTACAGCGGCAGACTG  
AAGGACGGGTGCCTGTTTTAGCCATGAGGTAGTCCCTGACCATCTGAGAACCAAGCCTGA  
CCCTGAAGTGGAAGAACAGGAGAAGCAACTGACGACAGATGCTGCCCGCATTGGTGAGAT  
GCAGCCCAGGTTGGAAGTCACTGCTTGTGCTGCCCCATCCCCATCCCATCATGAGAAGC  
TAGGCATTACCATTCCTGTCTAGTAGGGATACATAGTTGTTGCGCCTAAGTTGCTTCTGGC

Table 4

AGAACCCAAGGAATAAATTTCTCCATATCGTTTCCTAGTTACCCTAATCTCTGCACAAATTTGT  
GTGTTACAGAAGCAGATCCAGAGCTTGAATAAAATGTGTTCAAACCTTCTGGAGAAAATCAG  
CANAGAGGAGCGANN

>670

NNNNCTGAGTGGCGGCGGCGGCGACGGCAAACCCGGAGCTGCCGGCCGGCGCG  
CGGGAGGAGGACGCGGGTGCAGTCTAGGAAGTAGGTCCCGGGCTCCGCGCTCAACAAAG  
ACGGGGCCGCCCCATTAGACGGAGCTGCGGGCGGAGGCTCCATGTTGGGAAGCGGCGC  
CGTTCGTGCTTGTTAGCGGGAATCCGGGAGCCGCGGGGTGAGCTGGCGGGGGCCGGGCC  
CTAAGTGAAGATGGAGGCCCGCTGCGGCCTGCCGCGGACATCCTGAGGCGGAACCCGCA  
GCAGGACTACGAACTCGTCCAGAGGGTCCGGCAGCGGCACCTACGGGGACGTCTATAAGGC  
CAGAAATGTACACACAGGAGAGCTGGCTGCAGTAAAAATCATTAAATTGGAGCCTGGAGATG  
ATTTTTCTTTGATTCAACAAGAAATATTTATGGTTAAAGAATGTAAACATTGTAACATCGTTGC  
CTACTTTGGGAGTTATCTTAGTCGGGAAAACTATGGATTTGTATGGAATACTGTGGTGGCG  
GATCACTTCAAGATATTTACCATGTTACTGGACCATTATCAGAATTGCAATAGCCTATGTAT  
GCAGAGAAACCTTACAGGGTCTTGCCTATTTGCATACTAAAGGCAAAATGCATAGAGATATC  
AAAGGTGCTAATATTTTATTGACAGACCATGGCGATGTAAATTAGCTGACTTTGGTGTGGCT  
GCAAAAATAACAGCTACCATTTGCAAAACGAAATCTTTCATTGGCACCCCTTACTGGATGGC  
CCCAGAAGTTGCAGCAGTAGAGAAGAATGGTGGCTACAACCAACTCTGTGATATCTGGGCA  
GTAGGAATAACAGCAATTGAACTTGGAGAAGTTCAGCCACCTATGTTTGATCTCCACCCAAT  
GAGGGCTCTCTTCTTAATGTCAAAAAGTAATTTTCAGCCTCCAAAACCTAAAGGACAAAACAA  
ATGGTCATCAACATTCATAATTTTGTCAAAATAGCACTAACCAAAAACCAAAAAAAGACC  
AACTGCTGAAAGACTTCTGACTCACACTTTTGTGTCACAGCCAGGTCTCTCTAGAGCCCTAG  
CAGTTGAACTGTTAGACAAAGTGAACAATCCAGATAACCACGCACATTACACTGAAGCAGAT  
GACGATGACTTTGAGCCCCATGCAATCATTGTCATACCATTAGATCTACAAACAGGAATGC  
CAGAGCTGAACGGACAGCTTCAGAAATAAATTTTGACAAATTACAATTTGAACCTCCTCTGAG  
AAAAGAAACAGAAGCACGAGATGAAATGGGATTGTCATCAGACCCAAATTTTCTGTTACAGT  
GGAATCCTTTTGTGATGGTGCAAATACTGGCAAATCAACCTCAAAACGTGCAATACCACCT  
CCCCTACCTCCTAAGCCAAGGATAAGCAGTTACCCTGAAGACAATTTCCGGATGAAGAAAA  
AGCATCAACCATAAAACATTGTCCTGATTGAGAAAGCAGAGCTCCCCAAATTTCTCAGAAGAC  
AGAGTAGCCCAAGTTGTGGGCCTGTGGCAGAGACTTCTTCTATTGGAAATGGTGTATGTTAT  
TCAAAACTGATGAGTGAAAAATACAGAAGGATCAGCACAAGCACCACAGTTACCACGAAAAAA  
GGACAAACGAGACTTCCCTAAACAGCCATCAATGGCCTTCCACCCACCCCAAAAGTTCTGA  
TGGGAGCATGCTTTTCAAAAGTTTTTGTGCTGTCTTTGAAAATTAATTGTGCAACATCCT  
GGATACATCCTGATACAAAAGATCAGTACATTATTTTGGAACTGAAGATGGTATTTACACAC  
TGAATCTCAATGAGCTACATGAGGCAACGATGGAACAGTTATTTCCACGGAAGTGTACTTGG  
CTGTATGTTATCAATAATACTTTAATGTCAATATCAGAAGGAAAAACCTTTCAGCTCTACTCTC  
ACAATCTTATAGCTTTTGTGTAACATGCCAAAAAACAGGATTAGCTGCCCATTAATCAAACTC  
ACAGGTTTCCAGACCGAATACTACCAAGAAAAATTCGCTTTAACAACAAAGATTCTGATACAA  
AAGGCTGCCACAAATGTTGCATAGTCAGAAACCTTACACGGGACATAAATACCTCTGTGGA  
GCTTTACAGTCTGGAATTGTTTTACTTCAGTGGTATGAGCCAATGCAGAAATTCATGTTGATA  
AAGCACTTTGATTTTCTTTGCCAAGTCTTTGAATGTTTTTGAATGCTGGTGATACCTGAA  
ACATGGGATGCAGGGTAAAAGCTTCAAGTCAGATGAGGTTACCCAGGAGATTTCAGATGAAA  
CAAGAGTTTTCCGCTTATTAGGATCAGACAGGTTGTCGTTTTGGAAAGTAGGCCAACAGAA  
AATCCTACTGCACACAGCAATCTCTACATCTTGGCTGGACATGAAAATAGTTACTAAGCAACA  
GAAACTGATCTCAAATGACAGGAAAATGAATATACTCCATTGAAAGGAAAAATAAGGAAATTC  
AATACAACTGCACTATGATTTGCTTTAACTATTATGGGTTATATTGCAAATGATCTGTACTTT  
AGGGTAGAATCAATATTTTCTGCAGCTGGAACAGCTAGTCTATCTCTTGGCACTGTGTGGT  
GGTTATATCAAGTTTTGCTTAATAAAAGCTATGAGACAAATAGTCCCTAGTTCCAGGAAACAC  
AGTCTTTTTTTAAAAAAAACAATGTTTGTAAACAAGGGTGCCATGGTATTTTTAGATAACTCGTG  
ATTATCTTAAGAGAGGTAATTTAGTGATCATTTTATATCATGTCTTATTCCTTCTTAATGAACA  
TAATTTGTTAAATCTCAAGCAAGGTTTTCACTTTTATATTGGCCATTCTGTATGTTTTGTAAA

Table 4

ACAGAATATTTAATCCTTATTTATTAATCTCTTGCTGGAGTGGTGTAAATGTATCTAACTTTTAG  
CAAAGGAGGGTTGCAGAGCAGCTTAAATTTTTTTTATAATGTATAAGAATTTTGTTTATCTTTT  
AAGAGTAGTAAAGTACTTTGAGTGTGGGGGTTCAACACACACATGCAATTTTGCTTAACAA  
AAGTATTTTATAATACAGTTTCATACAGAATTACCTTAAAAGGGAGTCTTATGTTTTCAACTAC  
AGATAGTTGTAAGGGATCATACAGAAGATATTGATGATAGTTGAAATATTCTTAGAAGGGGTG  
TGTATGCTAGCTGTGTCTACCATGTGTATGTATTCTTGACAAGCAGTATAAAATACCTGTGA  
TTTTCTTTACATTAGGGATAATGCATAAGGAATTAATCTTCATATATATTATCATCCCTAATGT  
AGCAGGGGGAAGTATTTAATTGCCCATGATATGTATTTTACTTATACTATGCCAGAGAGGAAA  
CTATAAAGTAATTACACATGTAATCTTGGGTTTTTCACATATGTAGGTATTCATTTTGAGTAGG  
TTGAAGAAGAAAAAAATATTTAAATGAATTGAATTCCTGATGGGATAGTATCAATAAGTATTT  
AAAAGCCAGTATTCTAAAAATAATAAAGGGTAGGGTCATTTTTGAGTTTGTTTTCTTTTGCTA  
TTGTTAATATTCAAAATTAAGTGTTACATTGGTACCTGTTGTCTTAATGCATTTATTGAGAAC  
AGCATTGAGATGATGAACAAGGGGTTAGCAATAGCAAACTCTATAATTATTTGACTAATTAC  
TTAAGAGGAAAACAGTATAAGTATCTCATTAGTATTTAGCAATTCTGTAAAATAAGTATTATC  
TCTATTTTTTCTAGATGAGGAAGTAAGGGTTTAGCAAGGTTAAGAGATCTATCCAATTTACACAG  
CAAGTTAGTAGTTGAGCCTGACCATGAGTCTT

&gt;671

&gt;672

NNACACATTGTAATATTATATCATGTATAGTTGTACGCAGCTCTGTGCATAACTGTGG  
TAACTTTGTGGGTCGCTCCTGTGGGTCTGAAACAATGCAGTTCTCCCCGCGTATGCGACAT  
CCGGCTGATGGTCATGGAGATCCGCAATGCTTATGCTGTGTTATATGACATCATCTGAAGA  
ACTTCGAGAAGCTCAAGAAGCCCAGGGGAGAAACAAAGGGAATGATCTATTGAGAGCCCTC  
TCTCCCATTTCTGTGATGAGTACTCTTCTGCACTGTTCTTTCTTTCTAATAAAACTTTCTTTTC  
GAACCTATACTGTCTTCTGTAAATTCTTCTTACTACCCTATGACCCGTGAGCCAACCACTTTC  
CGATGCCAGGGTCTGACACCTCACCTGGCATAATATAAAGTGTTTTTTTTTATACCTTCC  
ACTTGGAAGACTACAGAGGAATCTTGCACTGCATAGTTCAAACATAAAGAGAGTAAAT  
TACCTGAAAAGCAAGAGAAAACAAGAAGGGGTAAATTTTGAACCAAGGGAAATCATTTAAGA  
AGTGTCTGGTATTTTTCAAATTTCTGTCACTGTTGTTACATTTGTGCATAAGTAAATGTTTAGGAAT  
AAAGGATGGAGACATGCTTATTTTATTTAACTCCCCCAAAAAAAAAAAAAAAAAAAGTACCT  
GCCCCGGCGGCCGCCCGGGCGGCCGCTCN

&gt;673

&gt;674

CCACCTAATAAATAAATCCTTGCATGACAAACCTGCAAAATATTTTATCAGCTGTTATT  
GGAAAGTGATTTTAAAGCAATTGCTTCCTCAGTGTCAGGGCACATGTGAATTTCCACACCAAA  
CAGAGCATGAGGAACCAGTTGACATGCTGGGTTGTGACTGGCAGCTTTAGCAGCCTCGGTA  
CTGAAGCCACACCAGTGTCGGATGGAAGTCTGCATCTGAGGTTGCTCAGTGTCCCGGTCA  
TTCATTTACACATTTTAACTTGCAATTAAGAGCTGTTCTTTCTGTGGCCTAGACTCTTTTCAC  
TGATCTCAAAATAAACTGGTTTTTTTCAAAAAAAAAAAAAACAAAAACAAAAAACAACAAAGC  
TGCATGTCTAAAATTACATGGAGTTAGTGTCTATTCTTTTCCCCTTTTGCAGCAACTTACACA  
GCATTTTAAACACCTTTTTTTCTAGTTTTTTGTTCCGGTTTTGTTTTCCATCAGGAATTTGAGT  
TCTCTCTAACCAGCTTACTGTGGGACATAGGAAAACCTCAGTAGAAATACCTTTGGTGATCTT  
GTTGAGTTTAAAGTCTGATCTTGATCTTAACTCAGTAAGCCACTATCTGCAATTTGTACATTA  
TATAGTATTTTGAAGATATGGAACCTTATGAAAAAATAAGCAAATTAGTTCTTTTTCCCCCA  
GAGGGGAAAGTTATGTTCTGCAATAGTGTGTGCTTATTTTACTGTTGAACAGCAATTGCTA  
TTTATTTTTTTATTGCCTAGAACTTCAACATGTTGTATAGGAATCCTGTAGTGCCACTAGTTAA  
ATGCCGAATTTCTCATCTGGATGTTACCATCAAACATCAGTACACTTGTCAATTTACATGTGTT  
TAATGTGACAGTTTTTCTAGTACTGTATGTGTTAATTTCTACTTTTTTAAATATTTAAATGCTT  
TTAAATAAACATATTCTCAGTTGATCCCAAAAAAAAAAAAAACCCACGCGTCCGCGGACGC  
GTGGCGGACNN

&gt;675

&gt;676

NNNNCTATCCCAGGAGCCCCGGGCGAGGAGCCCCGGGCGAGGAGCACCGCATGCTG  
GCCTCCCTCCCTCAGGCTCGGTGTGCCCCAGCAGACCTAGCTGCCAGCAGTGACAACAT  
GCGTTACCTTCATGTCCACTGACGGGTCCCCCTGCAGCAGTGCCCACTCATACTGGACGAT  
GGCGTGGTCATCTGTGCTCTCGCGCCGTCTAGAACCACCCCGTCTGTGGGCAGATGCAG  
AACCACATCCTGCCAGCCTTGCTAAGTGGAGGCGCATCCTTTTCTGAGAAAGAAAATAAAT



Table 4

AATTCATAAAAGATGATTTCTTATTTTTCTAATTTATGGAGAGGTATCTTGTTTGCTGAATAG  
ATATGATTCGGCAAATAACTGCTAAGAGAATCCATATTAATGGAAATTATTTTTCTATTTATTT  
TATGATCGTGGAATTTAGCTATAATATGCGCAGAAGAGGCTGTGTGGAGTGTGGCTGGTAG  
CGATTTTGGGTACAAGGCAGCATACGAGGTCCCACCAATGTGTAAATATGGAGAAGCAGTTT  
TATTTTCTAGAGTGGATTTTCACTTAATTTTAAAATCACTTAAGTTCAAATACTGTTAAATAA  
ATTTATTTTAAAAGATTATTATTATTTTAGATGAN

&gt;677

NTTTTTTTTTTTTTCTTTTTTTTTTTTTTTTTTTTTTTTTTAACTATTTAATTCACT  
CCTTTATTCTGGGATGTATATTACAGATAACACAACCTCACAAATATACCATCAGACATTGAAAA  
CTAAGGCCATTCTGTGAGTTATTTTTAAAACCTTGGTGTTTGCACATAATGATCTTAAAAAAA  
ATGAATTACCAAACCAAGATTCTCTTCTAAAATGAAAATTTAATGCAGGTACAGGATAACTTT  
AGGGCTATATCTAATCTGAAGCTTATCAGGTAGCAAAACCATTTTCGTTTTCTACAGCATAAA  
TAACAGCTCTAAGGCAACCACTACCTCAGCATGAAGCTCATTCTCCACGTTAGAGTAGTGT  
TTACCTGCTACAGTGACCAGTGTAGAGACCATTTCCCTTTCAGTAGCAAAAAGAGACTTTA  
CCTAAGAAACACACTACATACTACAGAATCCTTGGAACAAGAAACAGAAAGGGAGCTGTAAC  
TAAGGCACTGAAAGCACATTATTTGTATAAAGAAATGTAAACAATTTAACACCAACAGGCTCC  
CTCCGTTGGAGTCTTTATTGTAATGCACACAGGGGCATCATAGTCAGGGCTAGAGTTTGAA  
GTCTGGGTGAAACAAATGTTTCTGCAGAGTCTGAGAGTCTTGGCTGCCAATATATTTCTAACAT  
GGTGCTGTTGAATTAATTTCAAAGTGACTCAAGTGGAAGCTGGTATTTCCCTTGAATCTG  
AGTTTTAATAGCATTAAACAACAAGGAAGAATTTATAGGAGTCCTAAAATTATGGGCTCTTTC  
TAACATTTATTTGAGTCTTTTATCAAGTCTTCTAATGAATTTTAGGATTATTTTGGCTTATTT  
ATCAAGGAAGTTTGGTGAAGAACTTGTACCTAATGAGTGCCCTCCTTGTAAGTTTCATATT  
TCAAGTTACATGGTTTCATGCCATAAATAAACCCACACTTGCTTTAACATCGTTCAGAATGGTAC  
ATTTAAACAATTGGACATACAGCACTGTAAACAATTTCAAAGTCCATTGAGCTTACCATGAAAGA  
ACTGAAACGTATGTAGGAACTGTGTCTGCTGCAGACAAGCAGCTGCTCTGGCTCTGGTGC  
GGTGCGGTGCAGTGAGGTGAGGTGGGCTGGTGTGTGAAGGGAGAATTCCTGAGGCCAGTC  
ACAATTATTGAAGCTAAATTAATTTCTTCTGACACTTTAGCATTAACTTAAGTAGTTCTAAG  
TTCTAAACCATTAACTGTATAGTTAANNNNNNNN

&gt;678

&gt;679

NAGTTGTGGGTCTTCTTTGCAACGTTTCTTCTTCGCTGTGCCTCTGGTCGCCATCA  
CAAACCTGCATTAGGAAATGAGAGCGAGCATGTGGCCTGGCTTCTTGATGGAGATCGTCCTC  
GCTCTTTTTCATAAAGGGTCTAGATGAACACCGATTCCCTCCTGTGGTGATTGGCTATGGCA  
GCCAGTGTCCCGTGTCTCTCCATATGAGGAGTGAGGGCCTGCAGATCCCTCCATTGGCCA  
GCCTGGTTCTGGGAGAGAGATACTGAACTCAGCTTGGCCCTGGTCCCATTCTTCCAGTACC  
CGCTGGTGGTCTCTGCCCTCACCAGAGCTGGAAGGACTTGATGTGGTTTGACCACATCACT  
GTAGGATTTTCTCCCAGATGGGGATGACCAGCTGCATCACTCCCCAGAGTCCTTCCGGAGA  
AATAAAAGCATAGGCATGGCGGCTAAGGGAAGGCATAAGAAGGCAGATTGAGGATTGT  
TAAGAAGACTCCGCCCTTGCCCCCAGCTCTGCCTACCATAGTATTGCTCCCTTTTGGTCACT  
GATGCACATGACTAAGAAGAGTTCTCTCCTGAGTAACTACATGACTTTGGAGATCTTTGTCT  
TCTCTTCACTGCTTATCTTCCAGAACTCATGATTACCCACACATGCCTTTTACCAGGCAGTA  
AGAAATGCAGCCCCCTAGGTAGTAGCATGGTCCCCTCCTTGGCCCACTCCACTCTTGCCC  
TCAACCTCTTTCAACCAAACATTATCACCCACCTTAAGAAATTAATAAATTTCTGTCCCAGT  
CTGTCTGAACTTAGTACATGATCCAGGATGTGATGGGATCTTAGGGCTTGGCTGGAAGGTTT  
CTCCAGTCAGCCATCTAGCAGAGCTGCAGATCTGGGCTGGGCTGTTGGCTAAAGTGCTCTT  
CACAGACACCTCATTCCGGCTCTTCCCTCAGCTTCTTCACTTATTTCTTACTCAGTCACTACTC  
AGCTCCTTGTCCATGTGTCTTGAAGCCATCCTAGGTCTTATTCTGATTCTGAATCTTCACT  
CACCCATAAGCTTGTCTTACCAGGAGTCAGTGGGTGTGTGTTCCAGGTGGACTTAACCAT  
TCTTCTCCTTTATGATCCTTTCCCTTGGGTGGACAAGTGTGATTGGTTGTAAGGCCATTTT  
CAAGTTGCCTATACATTGATAAAAGAAATCCCACTAACGGAAGTAGACTGCATGCCAGATTTT  
AGTGTCTTTCTCAGGGGCCAAGGTTGGACCCAGAAGTGCATGGGGTGCTTGGTGTCTGTT  
AGTGATGTAGTAAGGATACACGGTTCCAGACACGGCACAAGAAATGCCTTCCCTTGGCAGTTC  
AGCACCTTTTCTACAAATCTTTATTCTCTGTGAGCATGACACCCTACCGTTTTTTCAACGG  
TTGTCTGTTAAATCCTAAAAATAAGTTGTTCTACCTTTCTGTTCTACAGACCCACAGATGCAG  
GGCAGTCAGCGGTGGCAGTGTTTGAACCATCAATTGGGAGGGGAAGGTGGTTTCTGTGCA  
GGAGGGGCAGGTGAGATTGCAGGATAGTTGTGCTCAGGCGCAGGTGGGCAGGCACGCTAA

Table 4

ACACATTGGTTTTCCCCTCAGACCATTCCTCGGAGTAATAAATCCAGTTGGAGCAGCAGTGA  
TGAGAAGAGGGGATCGACACGTTCCGATCACAAACACCAGTACCTGCCCGGGCGGCCGCCA  
CCCN

&gt;680

NCAGCTTAGTGATGACTTTCCAAGCTTCGTTGAGAATCTGAAGTCGGTCACTCTCAG  
GAGGATAAGGCAAGGCCAAGTTTAATCCCAGTGATCGAAAAAGAAGATGCTTGGGGAAACC  
AGATTCATCACACTCTTTAATCATGCCAATGAAATCCATAGACCTTGTGGCGATGAACTCAGC  
CCGGAAGGCAGACATCACAGAATTCAACAGCAAGGCATTGTTTCTAGTTTCTTACACCTTT  
CCATCATCTCGGTGAGCAGAGCCTCGGGGGCATGGTAGGAGATGCACTGGAAGATCCAGTC  
CATGGCAGGCGGGTACAAGGGGAGGTAAGATGGGAGCTCCACTCCTTGGACCACCAGCTG  
GTTCTGGACCGTATCCCCATGAATCTGTTTGAACGTAAGGAGGAAGTCAAAAAAGTTCTTATT  
TAGGGTTTCTTTGAGATGTGGGGCCACTTCCATTCCCACCCGGCACAGGTAGGCACGGGCA  
TACACCGACACTAGTGGGTCTCCGATCCCTCTGATCATGCATGTCAACCGGGGCGAGGCACT  
CTGAAATTCCCGTTTTGGAGAGGAATTTGTTACATTTAGGATGGATGCCTCCACGTAATAATC  
TTGGAATGAGTTCCCTGATGGAGGCAATCTTGAAAAACCAATTTAGGCATGTTTCTTGGCC  
TTGCCATTTGCATTCTCTGGAGAAAAGTGATCTGGTAAGACGCTGCGGCTATCCACACACAT  
GAAAAAGATGCGCTCGTACACGAGCTTTCAAATGTATCAAGTATGTGGTGATAAGGACAA  
ATTTCCGGACGCGTGGGTGCACACN

&gt;681

NACCGTACAGTGCCCTGCCTTTTCCGTTGTACCTGAGCATGCTCAGGGACGGTGAGC  
CTTGAGAGCTGAGGCTTCGGCAGAAAACAGCCCTCCTGGGTAAATTCTCATTACTTGCCCTAC  
TCAAAAGGATTGACAGAGTTTCTGTTGTCTTGCCTGCACTTGCCCCAGTTAAGAGGAGGT  
TGAGATCTATAGTACCAGCAACATAACAGGTAAGCTCTGTGGCTGGTTTGTATGGGCCAGT  
TAGCCCTGCCAGCTGTTTCTGCCTTCTCATGTCTGTCTGATCCTAGCTCGGTCTCTCTGA  
GTGGCCTCACCTGATCGAGAAAGCAGCTTCGTCACTTCTTTAGCATCAAACCTGGTGTCTCCC  
AGTGTGGGGAGAGCCTTTTGTCTTTGGAGTTGGGCCTAACCTGTCCCTCGCTGTCTTTCTC  
CTCTAGGTTGTGCGCTTGCGACTTGACACCATGCTGAGGGCACTGTGCCCTTTCTCTGGG  
TGTGGACAACAGGTCATAGGGAAAGGGGAGGGCTCTAGCGGGAAATTCCTTTGTAAACAG  
TCTGTGTTCTGTCAATTTAGATCGAACACCAGGGGGACAAGCTGGAGATGGCGAGAGAGA  
AACATCAGGCTTCCCAGAAGGAAAATAAACAGCTGAGTCTGAAGGTGGATGAACTGGAGAG  
GAACTGGAGGCGACCACTGCCAGAAATATCGAGTTCTACAGGTGATTGCCAAGAGGGAG  
GAGGCAATCCACCAGTCCCAGCTGCGGCTGGAGGAGAAAACACGGGAATGTGGGACCCTG  
GCAAGGCAGTTGGAGAGTGCCATTGAAGATGCCAGGAGGCGAGGTGGAACAAACCAAGGAG  
CACGCACTCTCCAAGGAGCGAGCAGCCAGAACAAAATCCTGGACCTTGAGACCCAGCTGA  
GCAGAACCAAAACGGAATTGAGCCAGCTGCGGCGGAGCCGTGATGATGCGGACCGCCGCT  
ACCAGAGCCGGCTGCAAGACCTGAAAGATCGCCTGGAGCAGTCCGAGAGCACCAACCGCA  
GCATGCAGAACTACGTCCAGTTCTCAAATCATCATACGCCAACGTGTTTGGGATGGTCCC  
TATTCACCTTCTCTGACTAGCTCTCCCATCCGCTCCCGATCTCCTCCTGCCTGAGGCCACTT  
ATCAGGGCCTGGAGCCCTGATGGAAGCCATAGGAACCTCAGAGTTGCCAAGCCATAGCTGA  
GAAGCCTGGTGGTTTTCTCTCCAGTGAAAAAATGGGTTCCAGGGTCTTGTCTTAGCTACT  
AGCTCTAGAAAAGTCCCAAAGCAGCAGAAGGTGAAGCAGGAAGCACTTGGTTTTCTCCTTC  
CTGATATAGTCACCTGTTGGAAGTGTTAAATTTCTCGACAGGCCTTAAATTTACTACTACA  
TTAGGGTACCACATTTTACTTACATGATTTGTTCTTCTTCTGAGAAAATATTTTATGGATTT  
CCACAGTCTTACGCTCATGTTAGGATTCTCCAGTTTTCTGCTAACAGGGAGTCTCTGGGT  
GAGCCCACTGTTTTTTCGTCAGCGNN

&gt;682

CTATAGGGAGTCAACCACGCGTCCGGGCGGAGCTCCTTGTTAACGACATCCCCAAC  
CTCTGCTAACGGGAGCACTTCTGAAGCTGAAGGTCAGCATAGACAAAGGGCCTCAGAATC  
GCGCAGGCGCAATTGTGCCCTGGTTCCGCAAGATGTCGTTCCCAAAGTATAAGCCGTCGAG  
CCTGCGCACTCTGCCTGAGACCCTCGACCCAGCCGAATACAACATATCTCCGGAAACCCGG  
CGGGCGCAAGCCGAGCGGTTGGCCATAAGAGCCCAGCTGAAACGAGAGTACCTGCTTCAG  
TACAACGATCCCAACCGCCGAGGGCTCATCGAAAATCCTGCCTTGCTTGGTGGCCCTATG  
CAAGAACAATAAATGTCTATCCTAATTTAGACCCACTCCTAAAAACTCACTCATGGGAGCTC  
TGTGTGGATTTGGGCCCCCTCATCTTCATTTATTATATTATCAAACTGAGAGGGGATAGGAAAG  
AAAACTTATCCAGGAAGGAAAATTGGATCGAACATTTACCTCTCATATTAAGTCTGGCAAT  
GATGACTATATGTATTCTGCCTAAATAAATCATCTATTAATCAATAAAAAAAAAAAAAACAAA

Table 4

AAAAAAAAAAAAAGAAAAACAACAACAAAAACAACACAAAAACAACACCACAAACAAAAAA  
AAAAAAGGGGGGGGGGGCCGCAAAAAAATACTCTTCCCCGGGGGGGGGCACCCATTTCTTCC  
CCCCCTTCTTTTTTTTAAACGAGGGGGGGCCCCCAACAGGGGGGGGTCAATAAAAAAA  
AGGCGGGGGGGGGGCTATAAACCCCCGCGGCGAGGCGAAACACCGTCACCCGCGGACAC  
GTTAGGGCAGACACCCACCCGCGGGGGGGGGGACAACTGGGCACCACACCACCGAGAT  
AGCCGCCCCGACAAAAAACTCGCGGTGCAGGCGGCACCCGACTCTACCGCCGGCGAACC  
TCGCCCGTTTCTTGAACATTAGGGGCCCCACGACAAGGTCGACAGCAACCACCGAATCCAG  
CACACTAACGTCAAGCCGTACGGCCAGAACCCTGTCTAGAGACACACCACNN

&gt;683

&gt;684

&gt;685

&gt;686

&gt;687

ACGCGGGGGCGGCTTCTTAGCTTTACGATGGCAACAAGTATGGCGGCTGCTAGTG  
GTAGATTTGAAAGTGCGAAGAGTATCGAAGAGCGGAAAGAAGACACCCGGAATGCCAGGGC  
CGAGGTGTTGCGCCAGGCTAAAGCCAATTTTAAAAAGAAGAAAGGCGTAAAGAACTTAAGC  
GACTTCGGGGTGAGGATACATGGATGCTACCTGATGTGAATGAGAGAATTGAACAGTTCTCA  
CAGGAACACTCTGTGAAGAAAAAGAAAGACAAAGCATTCAAAAAAGCAAAGAAAGA  
AAAGAAAAAAAGAGCAAGAAACAGAAATATGAAAAACAATGAGTCATCTGATAGCTCATC  
AAGCTCTGAAGATGAGTGGGTTGAGGCTGTTCCATCCCAGACTCCTGACAAGGAAAAAGCC  
TGGAAGTGAAAGATGAAAGTCAGGAAAAGATGACACCCAAATTATCAAGAGGGATGAGTG  
GATGACTGTTGATTTTATGTCTGTTAAACTGTGTCATCATCATCACTCAAAGCTGAAAAGGA  
AACTATGAGGAAAATAGAGCAAGAGAAAAACCAAGCGCTTGAACAGTCCAACTGATGGAAA  
GAGAATTGAATCCGTACTGGAAGGATGGTGGGACAGGTCTTCCACCTGAAGACTGTAGTGT  
GTCATCGATTACTAAAGTTTCAGTGGTAGAAGATGGTGGATTAAGCTGGCTAAGGAAATCTT  
ATCTAAGAATGAAGGAACAAGCTGAGAAACAAGTAGAACTTTGAGGACATTGTAGCCGAA  
AGATATGGGTCAATGGAATATTTCACTCAAAATTAGAAGATGCTGAAAAAGCTGCATCCAC  
GAAAGAAGATTATAGACGGGAACGGTGGAGGAAACCCACATATTCAGATAAAGCACAAAATT  
GTCAAGAAAGTAGAGAATCAGACTTAGTAAATATGGTAACAGTTCAGGGGATAGATATGCTA  
CAACAGATACTGCAAAAAATAGCAATAATGAAAAATTTATTGGTGATGAAAAAGATAAGAGAC  
CTGGGTCTTTAGAAACGTGTAGAAGAGAATCTAACCACAGGCAAAATCAAGAGTTTTCTTTTG  
GCAATTTGAGAGCTAAATCTTGAGACCCTCTGATGATGAAGAACTGTCATTTACAGCAAG  
GGCAGAAAATTTGAACCACTTAGTTTCATCTTCAGCATTGGTAGCTCAGGGCTCTTTGTGTAGT  
GGTTTTAGAAAA

&gt;688

NNNNNNNNNNNNNNNNNAAATTTAATTTCTCAGCAAGGCCATTTTTTAACTTTCTG  
CAGAAAGGGTACACTCGCCAGCGGTTTTGCCACAAGAGTATACGGAACAAAGGAGACAGGC  
TCATTTATAATCTGACGCGGCCACCTCCTGCTGCGTTGCGTTTCCATTGGCTGGGACGGG  
ACCTCACCTTCTGTATTTGTCCGACTGGCTAGCACTTAGAACTTTTTAAAAGAGGCAAAGG  
CATAGGAGAACAAGGAAGGAGGAAGTAACCTTGTGGAATATTGAGAAAGGTAAAAACACCTT  
TAAATAAGGAAGAGGAACAGGCTATGACCTAATGCTTGTTTGGATCAGTATAAGCATGTTAG  
GGCAAATATTTAGGCTAAATTTGTGGGAGCTAAGAACATAAAGTATATTGATTTTTTATTATGG  
CTAGCAGATATTTAAGAATGTTAGCACAGGTCTTTGAATAAATTTTGCTTCTAAGAGAAGTTA  
CTATTGGGCCCTAATTATATGGGGAGTAAAGTCTTTGAAGAGGAACCTCTATTTACTTTTTAC  
AATTCCTCTTTTATTTTATAATTCCTCTTCAAACCTCTTTAATATGTTTTGACTTAATTGCTTT  
GTTTGCCCTTCTAAGAGAAGTAATTTTTTCAAATGGGGTGGAGGAAAAGTTAGAGTTAACTC  
TTTAAGAATGGTAGAGACAAGT

&gt;689

NNNNNGTGCAGTAGACGTGTGTATAGTTTTATGACCAGGAAAAAGAGTTGTAGCTCT  
GTGTTGATTTTTCTTATCTCCTGCCCTCCCTCTCAAAAAGAAAAGACATAAATTAACCTAGGA  
ACTGAGAGGGGATAAGTTAGACCTAGCACTGCCACCAGCCCAGTGCTCTCTCAGAGAATCAC  
ATTGCTTGTGTCTATTCTAGGTGGCCCCAGCAGATGGCTTCTGATCTTGCCATGCAAGTA  
ATGACGTCTCCATCTAAGAACTACATTCTCTGTGATCAGTGGGAGCATCTGTATATTGTTT  
CTGATTGGCCTGATGTGTGGACGGATCACCAAGCGAGTGACACGAGAGCTCAAGGACAGGT  
AGAGCCACCTTGACCACCAAAGGAACCTATCCAGTGCCAGTTTGACAGCCCTCTTGT  
ATAGCATCCCCACTCACCTCGCTCTTCTCAGAAGTGACACCAACCCCGTGTTAGAGCATTAG

Table 4

CAGATGTCCACTGCGTTGTCCCATCCAGCCTCCACTCGTGTCCATGGTGTCTCCTCCTCCT  
CACCGTGCAGCAGCAGCAGCTGGTGCCTGGGGTACTGCCTTTGTTGGCAAACCTGGGT  
TACCTGCCTGTAGACAAGTCTCTCATACCAACAGAAGTCCGGTACTCCAGAACCACT  
CACCTGACCN

&gt;690

NNGCGGCCGCAGGAATCTTGCTTGCTTATATTTTTTTTTTTTTTTCACACAGAAACCA  
ACCACATTTTTACTGCATCTGCTCCACGCTGGATTCCAACATGCTGGCCCGGAGCGTGGCT  
GGCTGGAAGCAACTCCAACAGGTTTTCCCTTCCCGTCATGTACATTATTTATTTTTGATCC  
TACTCACTGTCCCAAGTCCAGAGGCAGTTACAAAAACACTCTTGATGCAAACCGTGAGTGG  
CTACAACACACGGATGGGGGTGGGCGCGATTCCCACAACAGGGAGTGGAATCCGGGAAGA  
TGATATATAGGGGCAAGACGCCCCCTTACTTGCTAAGAGTATATGGAGCTCAAAACCCACAA  
TTGCTTTGTTTTGTTTCTCAGTTCCCTGGAGTATGTTGAAACTACTTGCTCTAACATTAGTTG  
TATTTTTCATCAGATATCTGACCTGATTTAAACATGTTTGTGTCATACATCTTTTGTAGTG  
CACCTTATAGTTATTCCTACTGATATAGGATGAAGATTATAAATATCTGCATAAAAGAGAAA  
CATGTGACTCTATATGAAGACAACCATCACATTCCACAGCACATCATTGGTTCATTTTCGAAT  
TGTCAAGCAGTATTTGAAATGAGAGAGAGAGAGATAAATGAACACAAGCACCACGACAA  
AACAATCATAACAACAGAACCAACCCAACTTCTCTATTATTAATCATGTTAAATTTAGCT  
TTGTTTCTAACACTTTTCTTACTTGTTATTTAAGCTCCAGTAGCAGGATCAGATTTCTGCTG  
CCTCTAGGCAAATGAGTTATGATCTGATCTCGAGTTCCAAGGGAAAATGCTCAAAGTTTTATT  
TTCCCCAGTTGAATAAACAGTACCATGTATATTATCTCTCGTGTTAGAATAGTGTTGCTTCAC  
ATAAGACTCAAATAATGGTATTAGTCATTCATTTCCCTGAACACAGACACCCTCATGCGTGCT  
GACAGGTTTATAAGGATGCGGTGGCAGCCGCGGTTCTGGGAGCTGCTAGACGCCGAGT  
TTGATTTCTTGAGTCTGAGCGATGGAGCCCGGGGTGCCTGGTTATTGTCCGCTTTCTCT  
CTCAGATGCTTGGCTTGTGTTTCAAGAGAACCTTTTTCGATATTCATTGCTCCATCGATTGGA  
TCCAGTCTTGTTCAGAAAATTGTTTCAAGGCACTTAAGGCTGCCTGAAAGCCTTGAATCCTT  
GCTAAATATTCCAGTTGTTTGAAGGTTGTACCCTGGCCGGCCGCCGGGCAGGTACATTTT  
GCTTCTTAGAAAAGCTAAGTCTGCGGTTCCCTCTGATTTTAGGTTCCAGGAACCTTTCTTGAA  
CACCCGATCGCAGANNNNN

&gt;691

NNNGCAGCCTCCGGAGTCAGTGCCGCGCGCCCGCCCGCCCGCGCCTTCTGCTC  
GCCGCACCTCCGGGAGCCGGGGCGCACCCAGCCCGCAGCGCCGCTCCCGCCCGCGCC  
GCCTCCGACCGCAGGCCGAGGGCCGCCACTGGCCGGGGGGACCGGGCAGCTTGCG  
GCCGCGGAGCCGGGCAACGCTGGGGACTGCGCCTTTTGTCCCGGAGGTCCCTGGAAGTT  
TGCGGCAGGACGCGCGCGGGGAGGCGGCGGAGGCAGCCCCGACGTCGCGGAGAACAGG  
GCGCAGAGCCGGCATGGGCATCGGGCGCAGCGAGGGGGGCCGCCGCGGGGCAGCCCTG  
GGCGTGCTGCTGGCGCTGGGCGCGCGCTTCTGGCCGTGGGCTCGGCCAGCGAGTACGA  
CTACGTGAGCTTCCAGTCGGACATCGGCCCTGACCCAGAGCGGGCGCTTCTACACCAAGCCA  
CCTCAGTGCGTGGACATCCCCGCGGACCTGCGGCTGTGCCACAACGTGGGCTACAAGAAG  
ATGGTGCTGCCCAACCTGCTGGAGCACGAGACCATGGCGGAGGTGAAGCAGCAGGCCAGC  
AGCTGGGTGCCCTGCTCAACAAGAACTGCCACGCCGGCACCCAGGTCTTCCTCTGCTCGC  
TCTTCGCGCCCGTCTGCCTGGACCGGCCATCTACCCGTGTGCTGGCTCTGCGAGGCCG  
TGCGCGACTCGTGCGAGCCGGTCATGCAGTTCTTCGGCTTCTACTGGCCCGAGATGCTTAA  
GTGTGACAAGTTCCCCGAGGGGGACGTCTGCATCGCCATGACGCCGCCCAATGCCACCGA  
AGCCTCCAAGCCCCAAGGCACAACGGTGTGTCTCCCTGTGACAACGAGTTGAAATCTGAG  
GCCATCATTGAACATCTCTGTGCCAGCGAGTTTGCATGAGGATGAAAATAAAGAAGTGAA  
AAAAGAAAATGGCGACAAGAAGATTGTCCCAAGAAGAAGAAGCCCTGAAGTTGGGGCCC  
ATCAAGAAGAAGGACCTGAAGAAGCTTGTGCTGTACCTGAAGAATGGGGCTGACTGTCCCT  
GCCACCAGCTGGACAACCTCAGCCACCACTTCTCATCATGGGCCGCAAGGTGAAGAGCCA  
GTACTTGCTGACGGCCATCCACAAGTGGGACAAGAAAAACAAGGAGTTCAAAAACCTCATGA  
AGAAAATGAAAAACCATGAGTGCCCCACCTTTCAGTCCGTGTTAAGTGATTCTCCCGGGGG  
CAGGGTGGGGAGGGAGCCTCGGGTGGGGTGGGAGCGGGGGGGACAGTGCCCCGGGAAC  
CCGGTGGGTACACACACGCACTGCGCTGTAGTGGACATTGTAATCAGTCGGCTT  
GTTCTTGAGCATTTCCCGCTCCCTTCCCTCCATAGCCACGCTCCAAACCCAGGGTAGCCAT  
GGCCGGGTAAAGCAAGGGCCATTTAGATTAGGAAGGTTTTTAAGATCCGCAATGTGGAGCA  
GCAGCCACTGCACAGGAGGAGGTGACAAACATTTCCAACAGCAACACAGCCACTAAACA  
CAAAAAGGGGGATTGGGCGGAAAGTGAGAGCCAGCAGCAAAAACCTACATTTTGAACCTGT

Table 4

TGGTGTGGATCTATTGGCTGATCTATGCCTTTCACCTAGAAAAATTCTAATGATTGGCAAGTCA  
CGTTGTTTTTCAGGTCCAGAGTAGTTTTCTTTCTGTCTGCTTTAAATGGAAACAGACTCATACCA  
CACTTACAATTAAGGTCAAGCCCAGAAAGTGATAAGTGCAGGGAGGAAAAAGTGAAGTCCAT  
TATGTAATAGTGACAGCAAAGGGACCAGGGGAGAGGCATTGCCTTCTCTGCCACAGTCTTT  
CCGTGTGATTGTCTTTGAATCTGAATCAGCCAGTCTCAGATGCCCAAAGTTTCGGTTCCTAT  
GAGCCCGGGGCATGATCTGATCCCCAAGACATGTGGAGGGGCGAGCCTGTGCCTGCCTTTG  
TGTCAGAAAAAGGAAACCACAGTGAGCCTGAGAGAGACGGCGATTTTCGGGCTGAGAAGGC  
AGTAGTTTTCAAACACATAGTTAAAAAGAAACAAATGAAAAAATTTTGAACAGTCCAGC  
AAATTGCTAGTCAGGGTGAATTGTGAAATTGGGTGAAGAGCTTAGGATTCTAATCTCATGTTT  
TTTCCTTTTACATTTTTTAAAGAACAATGACAAACACCCACTTATTTTTCAAGGTTTTAAACA  
GTCTACATTGAGCATTGAAAGGTGTGCTAGAACAAAGGTCTCCTGATCCGTCCGAGGCTGCT  
TCCCAGAGGAGCAGCTCTCCCCAGGCATTTGCCAAGGGAGGCGGATTTCCCTGGTAGTGTA  
GCTGTGTGGCTTTCTTCTCTGAAGAGTCCGTGGTTGCCCTAGAACCTAACACCCCCTAGCAA  
AACTCACAGAGCTTTCCGTTTTTTCTTTCTGTAAAGAAACATTTCTTTGAACTTGATTGCC  
TATGGATCAAAGAAATTGAGAACAGCCTGCCTGTCCCCCGCACTTTTTACATATATTTGTTT  
CATTTCTGCAGATGGAAGTTGACATGGGTGGGGTGTCCCCATCCAGCGAGAGAGTTTCAA  
AAGCAAAACATCTCTGCAGTTTTTCCCAAGTACCCTGAGATACTTCCCAAAGCCCTTATGTTT  
AATCAGCGATGTATATAAGCCAGTTCACTTAGACAACCTTACCCTTCTGTCCAATGTACAGG  
AAGTAGTTCTAAAAAAATGCATATTAATTTCTCCCCAAAGCCGGATTCTTAATCTCTGCA  
ACACTTTGAGGACATTTATGATTGTCCCTCTGGGCCAATGCTTATACCCAGTGAGGATGCTG  
CAGTGAGGCTGTAAAGTGGCCCCCTGCGGCCCTAGCCTGACCCGGAGGAAAGGATGGTAG  
ATTCTGTTAACTCTTGAAGACTCCAGTATGAAATCAGCATGCCCGCCTAGTTACCTACCCG  
AGAGTTATCCTGATAAAATTAACCTCTCACAGTTAGTGATCCTGTCTTTAACACCTTTTTGT  
GGGGTTCTCTCTGACCTTTCATCGTAAAGTGCTGGGGACCTTAAGTGATTTGCCTGTAATTTT  
GGATGATTAAAAAATGTGTATATATATTAGCTAATTAGAAATATTCTACTTCTCTGTTGTCAA  
CTGAAATTCAGAGCAAGTTCCTGAGTGCGTGGATCTGGGTCTTAGTTCTGGTTGATTCACCT  
AAGAGTTCAGTGCTCATACGTATCTGCTCATTTTGACAAAGTGCCTCATGCAACCGGGCCCT  
CTCTCTGCGGCAGAGTCCTTAGTGAGGGGTTTTACCTGGAACATTAGTAGTTACCACAGAAT  
ACGGAAGAGCAGGTGACTGTGCTGTGCAGCTCTCTAAATGGGAATTCTCAGGTAGGAAGCA  
ACAGCTTCAGAAAGAGCTCAAAATAAATTGGAATGTGAATCGCAGCTGTGGGTTTTACCAC  
CGTCTGTCTCAGAGTCCCAGGACCTTGAGTGTCATTAGTTACTTTATTGAAGGTTTTAGACCC  
ATAGCAGCTTTTGTCTCTGTACATCAGCAATTTGACAAAGTGCCTCATGCAACCGGGCCCT  
ACAGAGCTGCAGTATCACGAGCCTTTGTTTTCTCCACAAAGTATCTAACAAAACCAATGTGC  
AGACTGATTGGCCTGGTCATTGGTCTCCGAGAGAGGAGGTTTTGCCTGTGATTTCTTAATTAT  
CGCTAGGGCCAAGGTGGGATTTGTAAAGCTTTACAATAATCATTCTGGATAGAGTCTGGGA  
GGTCTTGGCAGAACTCAGTTAAATCTTTGAAGAATATTTGTAGTTATCTTAGAAGATAGCAT  
GGGAGGTGAGGATTCAAAAACATTTTATTTTTAAATATCCTGTGTAACACTTGGCTCTTTG  
TACCTGTGGGTTAGCATCAAGTTCTCCCCAGGGTGAATTCATCAGAGCTCCAGTTTGCAT  
TTGGATGTGTAAATTACAGTAATCCCATTTCCCAAACCTAAAATCTGTTTTTCTCATCAGACTC  
TGAGTAACTGGTTGCTGTGTCTAATCTCATAGATGCAGGAGGCTCAGGTGATCTGTTTGA  
GAGAGCACCTAGGCAGCCTGCAGGGAATAACATACTGGCCGTTCTGACCTGTTGCCAGCA  
GATACACAGGACATGGATGAAATCCCGTTTCTCTAGTTTCTTCTGTAGTACTCCTTTTT  
AGATCCTAAGTCTCTTACAAAAGCTTTGAATACTGTGAAAATGTTTTACATTCCATTTTCTG  
TGTTGTTTTTTAACTGCATTTTACCAGATGTTTTGATGTTATCGCTTATGTTAATAGTAATTCC  
CGTACGTGTTTATTTTATTTTCTGCTTTTTCAGCCATGTATCAATATTCACTTGACTAAATC  
ACTCAATTAATCAATAAAAAAAAAAAGGGGGGGGGCAAAGAAACCTCANNNNNNNNNNNNNN  
NN  
TTTAACTAGTTTAAAAAAAAANNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN  
>692

NNNNNNNNNNNGCCTGAGGTGGGTGGCGGTGGAAGTTAAGGGAGTCAGGGGCTATC  
GCTCCTCGAGACTCGCAGTCGCGGCCACTGCAGTCACTTCGCCAGTTAGCCCTTAGGGTAG  
GAGTCGCGCCGGCAGCGGGTGTGTGGACGCCGCTTTGTTGCTGAGATGAAGTTGGAGCC  
CTTGTTTTTGACATTGGATCCTATACTGTGAGAGCTGGTTATGCTGGTGAGGAGTCCCCAA  
GGTGGATTTTCTACAGCTATTGGTATGGTGGTAGAAAGAGATGACGGAAGCACATTAATGG  
AAATAGATGGCGATAAAGGCAAACAAGGCGGTCCACCTACTACATAGATACTAATGCTCTG  
CGTGTTCGAGGGAGAATATGGAGGCCATTTACCTCTAAAAAATGGGATGGTTGAAGACTG

Table 4

GGATAGTTTCCAAGCTATTTTGGATCATACCTACAAAATGCATGTCAAATCAGAAGCCAGTCT  
CCATCCTGTTCTCATGTGAGAGGCACCGTGGAATACTAGAGCAAAGAGAGAGAACTGACA  
GAGTTAATGTTTGAACACTACAACATCCCTGCCTTCTCCTTTGCAAACTGCAGTTTTGACA  
GCATTTGCTAATGGTCGTTCTACTGGGCTGATTTTGGACAGTGGAGCCACTCATACCACTGC  
AATCCAGTCCACGATGGCTATGTCCTTCAACAAGGCATTGTGAAATCCCCTCTTGCTGGAG  
ACTTTATTACTATGCAGTGCAGAGAAGCTCTTCCAAGAAATGAATATTGAATTGGTTCCTCCAT  
ATATGATTGCATCAAAAGAAGCTGTTCTGGAAGGATCTCCAGCAAAGCTGGAAAAGAAAAGAG  
AAGTTGCCTCAGGTTACGAGGTCTTGGCACAATTATATGTGAATTGTGTTATCCAGGATTTT  
CAAGCTTCGGTACTTCAAGTGTGAGATTCAACTTATGATGAACAAGTGGCTGCACAGATGCC  
AACTGTTTCAATTATGAATCCCCAATGGCTACAATTGTGATTTTGGTGCAGAGCGGCTAAAGAT  
TCCAGAAGGATTATTTGACCCCTTCCAATGTGAAGGGGTATCAGGAAACACAATGTTAGGAG  
TCAGTCATGTTGTCAACCAAGTGTTGGGATGTGGATTTCGAAGCATTTCACAGATGTGGA  
TTTCCAAGCAAGAATATGAAGAAGGAGGGAAGCAGTGTGTAGAAAGAAAATGCCCTTGAGAA  
AGAGTTCCCAAGCTTCTACCTTCTTTTGTACCTTACGTTTCATAGCTTTAGTATACTCAGG  
AAAAGAATGACCATCTTTTGTAGAATGTTTATACATTTTGCATATTTCAATTTCCACTTAAAT  
TTTTAAAGCTTTAACTGGCTCTATAAATTAAGTTTGTGCTTTCCTTGAAATGCACCTATTCTTAT  
TACAAGCATTTTATAATTTGTATAAATGTCTATTTCTCTAAATATTTTGTCTTCAGTAAATG  
CTTTCCAAGTCTGTTTAGTGTATTAATTACCAGTGGATTGGTAGAACTGCTTTTTATTGACTAG  
TAAAAGTTACTGCCTATGCTTTTTACCTTAGGCTTACAGAATTAATAAAAAATTAGCCATTCCA  
GAAATATATTTTGGACTGTTGTGCACTGTGATTACTACTTTAAGGACTAAATGATTTCTCATT  
ATTTGAATCAAAGTCCCTCCGTTTATTAACAGCAATACCCACATCCTCTTCATAGCCTATTAAC  
AACAGAGGTAAGAACTATTATTCAAATTCAAAACTACGGTATTGCCTTTGCTGTGGCAGTTAC  
CATCACCTTCACACTCTAAGGTAGCAGGTGACATTTAAAGCCTGCTTAAATGTCAGAAATTTAT  
AAAGTGGGAATCTCATCTGAACCTTATACCTGATTTTTAGAAGCAAATTAGCTTCTACCAAATT  
AGCTAATTAGCATGCCATATTACACTTAGAACAAGTATTAGTAAAGTCACTTGACTAAAAA  
CAGAATTTCTTTATAAACCCTTAACATATTTACTCCTGTACACAGACTATTCAAGAAAAACAA  
AATGGTAAATTAATAGTTTCAAGACATCTTAGACAAGACTTGACTTTTGGGCTTCAGCAAGATG  
TGGAAACTTTTTTAAAGAAATTTTTGCTTTCTCTCTAAATTTTCTTCCGTGCTTTGATGC  
GGGCTCGTTTCTCACGTTCCAGTCTGAGAAAATGGTCCACATAAGGCAAGGCAAAGAATCGT  
TTCCTATTGTATCTTTTATTTAGGTGCCAAGGTATAACCCACTGCTTGAACCTTGTGCCAGATG  
ATCTTCCAAGATGTCTCTTCTCCAAGCACCAGGTCTAGCTCTTCTTGACCAGTCTGAAGA  
AGCCTTAGGGCATCTTCTCTTCTGGACAACCTTATCTAATGCATCCATGGAATCTACTACC  
TTATCTAACCGCTCTGGACTTGGCATTGGCAATCTCTGCCGCTTGGCCTCCTGCTCTAGGGT  
TAGAAGCATGTTTCTTTCTTTTCTAGTAAGACATACCAAAGTTTGTGTAAATCTTCATTACTTTTG  
TTCCTTAGTTGCTGACAGGTCCATGCTGCTCCAGATTTTACTTTTTCTTGCCCCCAGTTTTTT  
GGGTCAATCAAAAAATTCTTCTAGTCTTTCTTGACAATGTGGTATGAAGTAATCTATATTGG  
TGAAAGGATGTCACATTTGGTGTACTCTTAGGCAACAACTAAGAGAAGACCTGCAACCCGA  
GTGAGCAGCGTCTTGGGATTTACTAGGGAACAAGCTGCCTTCAGGAACGCTGAGGCTCTT  
CTACAAATACCCACTAGACTGGTCGCAGCCATGTTTCTAATGGAGACCGTCAGTTTCACCTA  
GGCCAGCAAN

&gt;693

&gt;694

&gt;695

CCCCCGCGGTGGCGGCCGAGGTACGCGGGGAGGCATTAGGCAGCGAGAGCAGA  
GCAGCGTAGAGCAGCACAGCTGAGCTCGTGAGGCAGGAGACTCAGCCCGAGGAAATCGCA  
GATAAGTTTTTAATTAAGAAAGATTGAGCAGTAAAGAAATTAGAATCTAACTTAAGCTAATA  
GAGTAGCTTATCGAAATATTACTTAGTCTTAATAATCTAAGAAGATCTTAAGAGATAACATGAA  
GGCTTATTTAAACAGTTTGAAGAAAGGAAATGAGGAGAAAAGTATTTGACTGTATAATGGAGG  
CTGACCAGAGCAGTTTAGGAGATTGTAAGGGGAGGTTTTGTGAAGTTCTAAAGGTTCTAGT  
TTGAAGGTGGCCTTGTAGATTTAAACGAAGGTTACCTAAATAGAATCTAAGTGGCATTATAA  
ACAGTAAAGTTGTAGAGAATAGTTTGAAGTGAAGGTGTAGTTTTAAAGATTGAGAAAAGTAG  
GTTAAGTTGACGGCCGCCACCGCGGTGGAN

&gt;696

TTGGAGCTCACCGCGGTGGCGGCCGAGGTACGCGGGGACCGATGGCGCGATTTCA  
CAATCCTGCAGAACGGCCATACAAATTGCCAGACCTGTGCACAACGCTGGACACCACCTTG  
CAGGACATTACAATAGCCTGTGTCTATTGCAGACGACCACTACAGCAAACCGAGGTGCATGT

Table 4

GTTGTCTGAAACCGCTGTGTCCAGCAGAAAAATTAAGACACCTAAATAGCAAACGAAGATT  
CATAAAATAGCAGGAAGCTATACAGGACAGTGTGACGGTGCTGGACCACAAAACGGGAGG  
ACCGCAGACTAACACGAAGAGAAAACCCAAGTATAACATCAGATATGCGTGACCAAAGCCC  
ACCTTGACAGGAAATTGTATTAGATTTATGTCCTTACAATGAAATACAGCCGGTTGACCTTGTA  
TGTCACGAGCAATTAGGAGAGTCAGAGGATGAAATAGATGAACCCGACCATGCAGTTAATCA  
CCAACATCAACTACTAGCCAGACGGGATGAACCACAGCGTCACACAATACAGTGTTCTGT  
GTAAGTGTAACAACACACTGCAGCTGGTAGTAGAAGCCTCACGGGATACTCTGCGACAAC  
CAGCAGCTGTTTATGGACTCACTAGCCGGGCAGGTACGCGGGTGTGCAACTGCAAACCAAGT  
AACCTGCTATGGCCAATTGTGAAGAGATGGGAGTCTCCCCGATTGCCAGGCCGGTCTCA  
AACTCCTGGGCTCAAGCAATCTTCCCGCCCCACTTCCCGAAGCCCTAGGATTACGGGAGTG  
AGCCACCGCACCCAGCCAGAAAAACGTTTCAAATATTGAAAAACCTTACTTTTTTCAATGAGC  
ATTTTTGCATCAAGGGGTAAACAGGGACATTAGGCTTTTTTCTCTTAGACTCCAAACAGTAAG  
GTCAGAAATTTATCAAGACATTACATAGGAGTAAGGGCACAGCCAGGGGTGGTGGGGGAGG  
ACATTTTCCAGCACTAATTAACAGGTTTTATGATTCACTAGGTTGCCCAACTACTGTTCTCA  
CCTAATTCCCAGGCACAGCGTGTGAGGAGGCCAAATGACACTTTCCAGTGCAAGTGCTTGTA  
GTATGAAGGGGGCAGAGATCACCTAGTGACCATCAAGCAGGCCATCCAGAGGCCAAAACCTC  
TTATGTGAGGAATTTAGAAGTAATTAGACTCCCCTGTTATTTAAAGCTGGCATCTGGGTCCAG  
GCTTCTTCCCAAAAACCTTGAAGTAAGTAACTTAGAATTTCTACATGTCTCCCATGCATGTCA  
AAACTTATCGTGCAACCCTTGCTGACATTAAGACACCAAAATGTCCAAAAATGTAATCATTTA  
TCATGACCTAAGTGGTTAATATGGCCCAAATCCCTTAAGCTCCTGCTTTAAGGTTCAATAA  
TATCCCTAAGGAAAATCCACTCAGTCCTCTCTTGCTGAGGCACCCTGCTGTACCTGCCCGG  
CGGCCGCTCCACCGCGGTGAGCNNNNN

&gt;697

GGCGGCCGCCCGCGCGACCGGGTGAGACAGCGTCAGGCGCTTGATTTCCCTGA  
GTCCCGGTGCCTCAGCTGCCAGTGCCACGTTTCGTAAGAAGGCAACAAGTTCTTCTCCTC  
TACAGAAGGATTTTGAAACAATTTCGGCAAGTTCCAAATGATTCTGATCGCAAATACCTGAAA  
GATTGGGCAAGAGAAGAATTCAGAAGAAACAAAAGTGCCACCGAAGAGGATACAATCCGGA  
TGATGATTACTCAAGGCAATATGCAGCTCAAGGAGTTAGAAAAAACACTTGCTTTAGCAAAAT  
CTTAAGTATAGCATTATTTCTGAAGGATTTTCAAAGTCTCCATGTGTTTTGTTGCATTTAGGATT  
AACAATGGACAACACAAAGCCCAGTCTTACTATTTATATGTACAGTATTTGGTGATAGAGAGC  
AAAGGAAAAACACATCAGAACAGTTGCCTTAACACTGAAAAACATACCCTGCATTTTGAAAT  
GTTTATGGATGTCTCAGCAGTTCTTAAAGAAGAAAAAACCACTAACAAATGGCCAGTAGAT  
GCTGGACACAATCATTAGGGGAAGTGTAATCAAACTACTATGAGGTGCGGTGTAGTGCT  
CATGCTTGTTTATCCAGTACTTTAGGAGGGTGTGGTAGGGGATCACTTGAGGCCAGGAGTTC  
AAGACCAGCCTGGCCACATGGTGAACTTATCTCTACTAAAANN

&gt;698

NNNNNNNNNNNNNNNNNNNGCAGGTTTTTGTCCACATTAATTTTCATTGACTTTCTAT  
CATTCTTAGCTGTCAGTCTGATATTGTACTAATCATATTATTATAGACAGGATAAAAACTGAT  
AAAAATTTATTAGTAATTTCTTGAGCATAGCACTTTGGTAGGGCAAAAGCATGGTATCAGATG  
TACTCCAGGGCAGATGTCTTATTTGCTAGCCTTCTGTCAGTGTGTCTTCACTTTCTCTTGG  
TTTGTAGGCAGCATTACAGAAACAACAGGAAGTAGTAGGGGCTGGGTCTTCTTGCCTACAT  
CATCAAAAGTGAATGCAACTGTACCAAGTAATATGATGTCAGTTAATGGACAGGCCAAAACA  
CACACTGACAGCTCCGAAAAAGAACTGGAACAGAAAGCTGCAGAAGAAGCCCTGGAGAATG  
GACCAAAAGGTAGGTTTTGCATATGTGTTTGTCCAGATGTCATAATTCCAAATCTTGTTTTAA  
TTCTGATAGTGGCCATTGACAAGCATCACTCAGTGTGTTGCCAGAATCACTCTGCCATGT  
TATAAACCTGAAAATCCATGCCTGTAGTCCAGTCTCTGGATGTAGTGGTGCACGCCTGTAA  
TCCCAGCTACTTGGGAAGCTGAGGCAGGAGAATCGCTTGACCCAGGAGGTGGAGGTTGC  
AATGAGCTGAGATCACGCCGCTGCACTCCATCCTGGGTGACAGAGCAAGACTCTGCCCTC  
TCTTCCACGACATGAACAGCAAGGACAGAAAGATTGTCCCAGCTACGGAAAAACAAGCTCCG  
GCTGCATTACCGTAGGGTCGTGAGGAACAAACACGATCCCTACGAGCGGGCCGTGTACCTC  
GGCCGCCACC

&gt;699

CGCGGTGGCGGCCGAGGTAATTTTTTTTTTTTTTTTTTTTGTAGTGTTTTCTGATGTC  
TTTTCTAACAATCTTTGCCTGCCCAAAAGTCTCAAAAACATTCTACGTTTCTAGATTTTATG  
CTTTAGCTTTTGTGTTTGGGACTATGATCCATATTTAGTGAATTTATTTTGGGGGGGCAGA  
GTCCATGTTGCCCAAACTGGTCTGGAACCACACCCAGCTAATTTTGTGAATTGCGGGT

811  
Table 4

ACCAGCACACCGGCGCCGTCCTGGACTGCGCCTTCTACGATCCAACGCATGCCTGGAGTG  
GAGGACTAGATCATCAATTGAAAATGCATGATTTGAACACTGATCAAGAAAATCTTGTTGGGA  
CCCATGATGCCCTATCAGATGTGTTGAATACTGTCCAGAAGTGAATATGATGGTCACTGGA  
AGTTGGGATCAGACAGTTAAACTGTGGGATCCCAGAACTCCTTGTAATGCTGGGACCTTCTC  
TCAGCCTGAAAAGGTATATACCTCTCAGTGTCTGGAGACCGGCTGATTGTGGGAACAGCA  
GGCCGCAGAGTGTTGGTGTGGGACTTACGGAACATGGGTTACGTGCAGCAGCGCAGGGAG  
TCCAGCCTGAAATACCAGACTCGCTGCATACGAGCGTTTCCAAACAAGCAGGGTTATGTATT  
AAGCTCTATTGAAGGCGAGTGGCAGTGAGTATTGGACCCAAGCCCTGAGGTACAGAAGAAG  
TATGCCTTCAAATGTCACAGACTAAAAGAAAATAATATGAGCAGATTTACCCAGTCATGGCAT  
TTCTTTTCACAATATCCACAATACATTTGCCACAGGTGGTTCTGATGGCTTGTAATATTGGG  
ATCCATTTAACAAAAGCGACTGTGCATTTGCATCGGGTACCCAGAGCATCGATACTTGCCTT  
CAGCATGATGGATACGCTTGGAACAAGCGCTCATTGTTGACGGTGGACCAAACTCCGGAAT  
GGTTTCACTCCGCAGGGCGTGGGAACAACCAGGCACGATTAGACAATCGCAACAGGCGCG  
GCGATAAACACAGACCCAGGGGGTTCATTAAACCGCATTAGACCGCGAGCAGGGGTCTCA  
ACCCGCGGGGGGAGGCAGCAACGCACCTTGGTAATGAGCACAGNNN

&gt;700

&gt;701

&gt;702

&gt;703

TGCAGGAGTCCGACCTCCGTCTGTTCTGGACGGAGACATCCTCCGCCAGGACAG  
AGTCTCCAAGGCTGCTACTCCTTCATCCACCTCAGCTTCCAGCAGTTTCTCACTGCCCTGTT  
CTACGCCCTGGAGAAGGAGGAGGGGGAGGACAGGGACGGCCACGCTGGGACATCGGGG  
ACGTACAGAAGCTGCTTCCGGAGAAGAAAGACTCAAGAACCCCGACCTGATTCAAGTAGG  
ACACTTCTTATTCGGCCTCGCTAACGAGAAGAGAGCCAAGGAGTTGGAGGCCACTTTTGGC  
TGCCGGATGTCACCGGACATCAAACAGGAATTGCTGCAATGCAAAGCACATCTTCATGCAAA  
TAAGCCCTTATCCGTGACCGACCTGAAGGAGGTCTTGGCTGCCTGTATGAGTCTCAGGAG  
GAGGAGCTGGCGAAGGTGGTGGTGGCCCCGTTCAAGGAAATTTCTATTACCTGACAAATA  
CTTCTGAAGTGATGCATTGTTCTTCAGCCTGAAGCATTGTCAAGACTTGCAGAACTCTCAC  
TGCAGGTAGCAAAGGGGGTGTTCCTGGAGAATTACATGGATTTTGAAGTGGACATTGAATTT  
GAAAGGTGCACTTACCTAACCATTCGGAACCTGGGCTCGGCAGGATCTTCGCTCTCTCGCCT  
CTGGACAGATTTCTGCTCTCTCTCAGCTCAAACAGCAACCTCAAGTTTCTGGAAGTGAAC  
AAAGCTTCTGAGTGACTCTTCTGTGCGGATTCTTTGTGACCACGTAACCCGTAGCACCTGT  
CATCTGCAGAAAAGTGGAGATTAAAAACGTACCCCTGACACCGCGTACCGGGACTTCTGTCT  
TGCTTTTCAATTGGGAAGAAGACCCCTCACGCACCTGACCCTGGCAGGGCACATCGAGTGGGAA  
CGCACGATGATGCTGATGCTGTGTGACCTGCTCAGAAATCATAAATGCAACCTGCAGTACCT  
GAGGTTGGGAGGTCACTGTGCCACCCCGGAGCAGTGGGCTGAATTTCTATGTCCTCAAA  
GCCAACCAGTCCCTGAAGCACCTGCGTCTCTCAGCCAATGTGCTCCTGGATGAGGTGCCA  
TGTTGCTGTACAAGACCATGACACGCCCCAAACACTTCTGCAGATGTTGTGCTTGGAAAAC  
TGTCGTCTTACAGAAGCCAGTTGCAAGGACCTTGCTGCTGTCTTGGTTGTGAGCAAGAAGCT  
GACACACCTGTGCTTGGCCAAGAACCCCATTTGGGGATACAGGGGTGAAGTTTCTGTGTGAG  
GGCTTGAGTTACCCTGATTGTAACCTGCAGACCTTGGTGTACAGCAATGCAGCATAACCAA  
GCTTGGCTGTAGATATCTCTCAGAGGGCGCTCCAAGAAGCCTGCAGCCTCACAAACCTGGAC  
TTGAGTATCAACCAGATAGCTCGTGGATTGTGGATTCTCTGTCAGGCATTAGAGAATCCAAA  
CTGTAACCTAAAACACCTACGGTTGAAGACCTATGAACTAATTTGGAAATCAAGAAGCTGTT  
GGAGGAAGTGAAAGAAAAGAAATCCAAGCTGACTATTGATTGCAATGCTTCCGGGGCAACG  
GCACCTCCGTGCTGTGACTTTTTTGTGAGCAGCCTGGGATCGCTCTACGAATTACACAGG  
AAGCGGATTTCGGGTCTCTAAGATGTCTTATGAATGCAGGTGAGGGTACATGTTAACAC  
TAGAGTCTGTGAGAGGTAGGATTTGACACTGGTTTTCTCACTATTTTTGGGAGATTCTGCAC  
GAGTCACGCACCCCTTACATGACGCTATGTACTTTCTCACAGGGATAATAAAGTTAGAGC  
ACTCTCGNN

&gt;704

NNCTGTGGCGCGCGTCTTTCCACGTGTCCCGGTACCCGGCCCTGCCCCGGGGCC  
CTGTGCTTATAACCTGGGATGGGCACCCCTGCCAGTCTGCTCTGCCGCTGCCACCGCTG  
CCCGAGCCCAGCCTATGTCCAGCAAAGGCTCCGTGGTTCTGGCCTACAGTGGCGGCCTG  
GACACCTCGTGCATCCTCGTGTGGCTGAAGGAACAAGGCTATGACGTCAATTGCCTATCTGG  
CCAACATTGGCCAGAAGGAAGACTTCGAGGAAGCCAGGAAGAAGGCACTGAAGCTTGGGG



Table 4

CCAAAAAGGTGTTTCATTGAGGATGTCAGCAGGGAGTTTGTGGAGGAGTTCATCTGGCCGGC  
CATCCAGTCCAGCGCACTGTATGAGGACCGCTACCTCCTGGGCACCTCTCTTGCCAGGCCC  
TGCATCGCCCGCAAACAAGTGGAAATCGCCAGCGGGAGGGGGCCAAGTATGTGTCCAC  
GGCGCCACAGGAAAGGGGAACGATCAGGTCCGGTTTGAGCTCAGCTGCTACTCACTGGCC  
CCCCAGATAAAGGTCATTGCTCCCTGGAGGATGCCTGAATTCTACAACCGGTTCAAGGGCC  
GCAATGACCTGATGGAGTACGCAAAGCAACACGGGATTCCCATCCCGGTCCTCCCAAGAA  
CCCGTGGAGCATGGATGAGAACCTCATGCACATCAGCTACGAGGCTGGAATCCTGGAGAAC  
CCCAAGAACCAAGCGCCTCCAGGTCTCTACACGAAGACCCAGGACCCAGCCAAAGCCCCCA  
ACACCCCTGACATTCTCGAGATCGAGTTCAAAAAAGGGGTCCCTGTGAAGGTGACCAACGT  
CAAGGATGGCACCACCCACCAGACCTCCTTGGAGCTCTTCATGTACCTGAACGAAGTCGCG  
GGCAAGCATGGCGTGGGCCGTATTGACATCGTGGAGAACCGCTTCATTGGAATGAAGTCCC  
GAGGTATCTACGAGACCCAGCAGGCACCATCCTTTACCATGCTCATTTAGACATCGAGGCC  
TTCACCATGGACCGGGAAGTGCACAAATCAAACAAGGCCTGGGCTTGAAATTTGCTGAGC  
TGGTGTATACCGGTTTCTGGCACAGCCCTGAGTGTGAATTTGTCCGCCACTGCATCGCCAA  
GTCCAGGAGCGAGTGAAGGGAAAGTGCAGGTGTCCGTCCTCAAGGGCCAGGTGTACAT  
CCTCGGCCGGGAGTCCCACTGTCTCTACAGTGAAGGAGCTGGTGAGCATGAACGTGCAG  
GGTGATTATGAGCCAACCTGATGCCACCGGGTTTCATCAACATCAATTCCTCAGGCTGAAGGA  
ATATCATCGTCTCCAGAGCAAGGTCACTGCCAAATAGACCCGTGTACAATGAGGAGCTGGG  
GCCTCCTCAATTTGCAGATCCCCCAAGTACAGGCGCTAATTGTTGTGATAATTTGTAATTGTG  
ACTTGTTCTCCCGGCTGGCAGCGTAGTGGGGCTGCCAGGCCCCAGCTTTGTTCCCTGGTC  
CCCCTGAAGCCTGCAAACGTTGTATCGAAGGGAAAGGGTGGGGGGCAGCTGCGGTGGGGA  
GCTATAAAAAATGACAATTAAAAGAGACACTAGTCCACACACAAACACAAAGACAACAACAAA  
CAAAAAACAACACGCGTCTCTTCTTGCGCAACAAAAAGCGACCGATATTACACCACATTCATAA  
GATACGCCCTAGGATACGGAN

&gt;705

&gt;706

NNANAACGTACGAGTAAATTTTCATTACCTTTAATTAGGCAATGTTTCTTAGATAACC  
ATAAACTGCAAAAGCAATTTTAAAAATGATAAATAGGACTTCATCAAAAAGTAAACGCTTCA  
AAAGATACTACTGAGAAAGTCACAGAATAGGAGAAAAATCTGATGAGACTTTATGTCTAGAGT  
AATGAATTCCTTGTTAACGAATAACCAACCCCCCTTTTAAAAATGGGCAAAAGATTTGAATAAAC  
ATTTCACTACAGACAATAAACAAATGGCCTTAAGCACAAGAGATGCTCAACATCAGTAATTAT  
TAGGGAAATGCCAATCAAACTACAACGAGATACCCATATCCACTAGTATGGCTATAATAAA  
AAAGAGTAACAAACGTTGAGGAGGATATGGAGAACTCGAGCCCTGGTCAGGTGTGGTGGA  
TCACACCTGTAATTCACACTTTGGGAAGCTGAGGCAGGCAGACTACTTCACTGAACCCAG  
GAGCTCAAGAGTAGCCTGGGCAACACGGCGAAACCCCATC

&gt;707

TTCCGAAGGGCTGGGGCCTGAGAAGAAAGGGCGGTGATTCACAGCGCCGAGGAG  
GCAACATCCGGGATCCTCGCCCTCTGGGGCGGAGGCGGGGCAAAAGAAGAGGGGCAGG  
ACTCGTTCCCGGGAACCGAACCTGGAATCCCGGCGGCAGTGGGGCTGTTGCTGTTGCTG  
TGGCTGTCGCTGCCCGTCAGGCTGCCTTCTTTGTCGTTTCCAGCGCTGCGCAGGACTTC  
TCCTGGCGGCGCTGCGGATCCAGGGGGTCCGCTGCCAGGTACAGGTTTCCTAAAGACAAA  
AAAAAATGGAGGAATCTGTAAACCAATGCAGCCACTGAATGAGAAGCAGATAGCCAATTC  
CAGGATGGATATGTATGGCAAGTCACTGACATGAATCGACTACACCGGTTCTTATGTTTCGG  
TTCTGAAGGTGGGACTTATTATATCAAAGAACAGAAGTTGGGCCTTGAAATGCTGAAGCTTT  
AATTAGATTGATTGAAGATGGCAGAGGATGTGAAGTGATACAAGAAATAAGTCATTTAGTCA  
AGAAGGCAGAACCACAAAGCAAGAGCCTATGCTCTTTGCACTTGCCATTTGTTCCAGTGCT  
CCGACATAAGCACAAAACAAGCAGCATTAAAGCTGTTTCTGAAGTTTGTGCGATTCCACCC  
ATCTCTTTACTTTTATCCAGTTTAAAGAAAGATCTGAAGGAAAGCCTGAAATGTGGCATGGTGG  
GGTCGTGCCCTCCGGAAGGCTATAGCGGGAAGTGGGACAATGAGAAAGGTGGCATGGCCC  
TTGCTCTGGCGGTTCCAAAATATAAACAGAGAAATGGCTGGTCTCACAAAGATCTATTAAGAT  
TGTCACATCTTAAACCTTCCAGTGAAGGTATGCATAAGATCTTCATTGGGAAGAAGGGTGGG  
TAAGGATATTCAATAAATAGCAAATTTTATTAAACATAAGACAAGTGTGTAATATTTTCTAG  
AAATAGCCTTTTATTCTCAAAATATACATTAATTCAAATATATTTAATGCCTTCCTGGGATTACA  
CCCCTACCACAGGCGATCCAGACATTAATAATCAAGAATCAAATGACAGGTTTATAGGTTAAT  
ATTCTGAATCCTAAATGCCACCGTCTACTGGAATGCTACCAAGTGATTCTGGACTGTGT  
AAGTAGCAGGGGCAAGACTAAAAGTTGCAATAAGCCTTGGATATGGGT

Table 4

&gt;708

NNCACGAGGATTCCCTTCCTTCTTTTGGTCGGTTCTGAGTGTGGGGTGTCTACTGGG  
GATCTGCTAAGGCTAAGAGGCCAAAGATAGGCAAGTCACTCCCCTGACCTCAAGAACTCCC  
AGTCTACAGGCGAAGATACACCACCCACCGGTAGAGTCGCTGGACCAGAATATTAGGTGTT  
CCAGTCAAAGTCACCCAGATTTGCCAAAAGACCTGGCACAAATGTCACCTCCACTATGAAGT  
CCCCTGACTTCCATATACAAGACAATCTGCTGGGAATTTCTTGGGTTGACAGCTCTTGGAT  
CCCTATTTTGAACAGTGGTAGTGTCTTGGATTACTTTTCAGAAAGAAGTAATCCTTTTTATGA  
CAGAACATGTAATAATGAAGTGGTCAAAATGCAGAGGCTAACATTAGAACACTTGAATCAGAT  
GGTTGGAATCGAGTACATCCTTTTGCATGCTCAAGAGCCATTCTTTTCATCATTGGAAGCA  
ACAGCGGCAGTCCCCTGCCCAAGTTATCCCACTAGCTGATTGCTATATCATTGCTGGAGTGA  
TCTATCAGGCACCAGACTTGGGATCAGTTATAAACTCTAGAGTGGTAAGTGTCTTCACATTCT  
TTAAGCACTAAAGAAAACCTTTAATTAGCTACCTTGCTTCCAGTAATCAAACCTAGAGCTCCTCT  
GCCTTGAGTGTGCTATAAAGTATTGACTATTAGAATGTCTTGAACCTTTGGTTGCTGAG  
CCAAGTCGGTGCTCAAAGTATATTTTCATAGTCTCAATTATATAGTAATTTAGGTTCTGAAAAAT  
AGGTTCTGTCTTTGCATATGTAATATTTTGTGAGTATTTACTTTGGAAAGTTTGGTCGACCTAA  
TGATAAATTTAGAGTTTATTTTCTTTTACAAGCTTACTGCATTGCATGGTATTCAGTCAGCTT  
TTGATGAAGCTATGTCATACTGGTCGATATCAT

&gt;709

ACAAGCATGGTCCATACCACTGTTTACTTTTCTAGAAAGTTGTTAGACTAATTTTTCA  
ACAAAAATTCCTTATTGTCTTGGTAACAAAAGAAGCATACTAAAAATTCCTCAATAAGGCACAGT  
GTCTCTAGAAGCTTGAGCATTCAACATAAAGTCTAATTAACACGAACCTTGCTCTTATTTCA  
GCCATTGCTGTGTGGGCTTGGAGCCAGGAGAAGATGCAGAGGAATTTTACAATGAATTAATT  
CCATCAGCTGCAGAAAATTTTCTAGTTTTGGGGAGACAATTACAAACATGTTTTA

&gt;710

ACGCGGGCTAATCCCAGTTATGAGGGCTCTGCCCATGACCTCATCACTCCCAGAG  
GCCTTACCATCTAATACCAATACATTGGGTTTTAGAATTTAGCATGAGAATTTGGGGGAGACA  
GTCAGACTGTAGCGATGATTCTGGAGTATTCATCATTTAAGAGACACTTAAAAATGATCAGAA  
AGGAGAGGATGAAGGCTAGAAGTAAAGCTTTAGCGTTGAACATGGAAAGGAAGTGATGACT  
GCAGATATCTCCAGTACCTGGTGACCAGATGTACAGCAGCAGTGTGACTACCGTGGGTGCA  
GGTACCAGTAAGCAAATAAGAACTGAAGCAGGGCAGATATTTCAATTTGGGCACCCACTGAGT  
TTTTGGTGATGGGTATAGCTATTTGATTTTGGAGTCTAGGGTGGATTTAAGTCTGGCTTAGAA  
ATATGGCTCTAAGGGGACATTCAGCATAAAAGTTAAAAAAAAAAAAAAAAACCCACAGAGAA  
AGAGTGAGGAAAGGGGAGGGCAAGGGTAAACCTTAGAACTTGAATAAGCAAAGAGTC  
CCAGCACAGAAGCCAGAGGGAGAAAGAAACCAAGGAGTGTGAGGCTGGAAGAGAGAGGGT  
GGAAGATGCNNNNNNNNNN

&gt;711

ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGATAGCCATATACCAAATAAATGTTCTGTGA  
CTAGGGGTTATGGCACAATGGGTATTGAGACACTAAAACTCTGCTTCAGGCTTCCATCCTC  
TTAATTTTAGAATATCTCTGATTTCTTAATTTTCTGATTGACATCTTTTGGTAGATTATCGTGTT  
TTTACTTTATGTTATTGACTGATCCTTTAGAATGATTTTCTTTTGTCTGGGAAAAAAATGCA  
TTCTAAATCAGATTCATAAATCTTTGATTCACTTCCAAGGA

&gt;712

ACTTACAAAAATTTTAAACATTAGGAGGTAATTATAAGTAGATTCTGTGATTAGGACTT  
CATTCATGTATCTTTTGCTACATAAACCTTTGTTAGATTAAATGGAAGACACCTGCTAGGTGA  
TACTTTTTATAAAACATATGAGTAAGTCATATATCTTTGTTAAATTTCTGTATGTTCTTTTTGT  
ATAAAGATGGAGAGAAAGGATGGAGTGATACTAAGGACCCTAATAACATCTCTGTTCAAATTA  
ATTACTAAGTGATAGAAGTATTCATATGCCATTAAAGATTTGCCAATTCATTTGAATTTTATTT  
GATAAACTTGAAAAACAAATAACCTAACAGCTGTCTTTCTTTCTTTCTAAACCTTTTAAAGAA  
TAGATTTAATATTTTTCTGAGTTTTCAATTAAGAGTTATTTATGTTACGGTTTGTTTTATAAAA  
GTAGCATCGCAAAATAAAAAAGTCTGCATCCTTGCAAGTTATTCAGTCTCACGTGCTTGCTC  
TTCTCTGGTAAATTAATAAAGATCAAGAAGAGTCTGGGAGGAGGAACAGATGAGTCA  
GATGGGTTGAATCCTGTGAGTAAGTGAAAGAGTAATAGGAAAAAAACACTATGGTCATGAA  
AGAAGTGCATCCTGAAAGGTTGTG

&gt;713

NNNNCGCTCTTGTTGCCAGGCTGGAGTGCAATGGCATGATCTTGGCTCACCACAA  
CCTCCGCCTCCCGGGTTCATATGATTCTCCTGCCTCAGCCTCCCGAGTAGCTGGGACTACA

Table 4

GGCATGCGCCACCACGCCCGGCCAATTTTGCATTTTCAGTAGAGGCGGGGTTTCTCCATGT  
TGGCCAGGCTGGTCTCCAACCTCCCGACCTGAGGTGATCTGCCACCTCAGCCTCCCAAAGT  
GCTGGGATTACAGGCATGAGCCACCATGCCTGGCCAAAAATAAAGAACTTTTAAGACAAACC  
TGAAAATCCCAGTAAGAGCCATCTTTTGAAGTGGCTTTATGTTACTCTTCAGATACCGTCTAAA  
AGGCTCAAGACCAGCCAGATTTTAGGTAGGGTTTTTGTCTGCAAAGTAGAAGCCTACTGTCT  
CTAGAAAAGAAAACGCAGTACTTAGGGATCAAATGGGGTGGCAGTGGGGAGGAGGAATAGTC  
ATAAAGATCAATGGTCATTAAATTCATTCCAAAACAAAACACTGCATATATACTTTGGAGCTCCA  
CTTCTTTGTTTTCGTAAATAAAAGAAAATAATTGACGAGTATGTACAATGTGCCAGGCACCTT  
ACAAGACACAAATATGCTCTTATAGGCTGGGGAAATAAGAAAATATGAATGAAGCAACCCAG  
GTCTTGAGCCAAAGAATTACCTGGGGTCCGTTGAGTTTCAAATCTGAAAATTTCTGTCTTTCA  
AGGTCAGCATCGCCCAAAACCGGCCGTTCTGAAACACAGCCCAAGAAGACAATTCATTT  
TGTGGCCTTCTTTTGTCTCTATCAAATACAAACGATCTTTTTTCAAACAGGAAAAGGGCTTTC  
AAGAAGATATGTGTGGCCTGGAGTCTTGTGTCACTACTCATAAAAGAACCATTCACTCTTTA  
GTCTTAGCACTTTCTCAAATTTGAAAATCAGGCCTGGAACCTCTGGCAGACAGGGTCTCTGG  
AACATAAGAACGTAACTCCACGAGGGCAGAGGGTTTTTTGGGATAAGTTTAGTTAGTCTA  
GTGCCTTGAACAGTGCCTGGCACATAACAGGTGCTCAAAAACACTATTTGCTGAATAAACAGCA  
CAGACCTAGATAATTTCCCTTACATGCAACCTTTTGGAAAGCCATAAAATGTAAGGAAAGT  
TGGAAGGGCTAAGTTGGGGGGTTTTCAAAGAGCTTTATAGTCTCATGAATCTTCATGCAGTA  
CTACCACTGGAAACTCCCATTCCAGGCAGCTTTTTAAAGAAAGAAGCAAGATGGCTATCATG  
TCCTAATGTAAAAACAGAAATTTAATTAAGAAAAAAGCAAGAGATACGAGTCTCCCTTTCC  
AAGTACAAAAACAAGCACCCCAACTCCCCTCAAGAAAAACAGAAGGCTCAATATCTTTACCA  
CAATTTATTAGAGCCACAGAATACATTCCAAAATGTCATCCAGAAGTTGCTGTCTTAAGCAGCA  
GGAAATAATCTAATGACATTATACCACATAAAAAATATATTTGCCTGCTCCTCTTCCAGTAGAAT  
AGTGAGATCCAACCACCTTGGGAGACTCTTCTCCACCCCACTCCCATTACATAGAGTGTAA  
TGCTGCAGGGAGAGGAAGTTAAACATTACTTTTCAGGAAGAAGGAAGGGTGTGGTTTTACTGC  
TAACGGACGCGTGGTGCAGTCCCTANN

&gt;714

CCCTTAGCGGCCCGCCCGGCCAGGTACATATGCACTATTTAGAATATGACATTAATCA  
ACCACTAGAATTAATCAGGTTATAAATCCTCAAAATCACCAGAGTATAAATTTAAATGAAAA  
ACCCAGACCACAGAACAAAAACAGAAATACCAAAAAATAATCACAAAATATTAACAAACAGTAT  
ATAAACACAGTGACAGAATTAGGACTAAACATATCTGTAAACAATAAATGTAAGGGTAATCT  
CACCAATTATGAAAAAGACCTTCAGATCATATTTTAAACAAATTTAAAACTCAACTGTATGT  
TTATGCAAGAGACAGATTTAAAAATAAGAGACTCAGAAAGCTGGAAATAAAAAAGAAAGTGCA  
AAGAAATAGCAAACAAATACAGGCATAAAAAAAAACAAAGATCCCAATAGT

&gt;715

ACGTGTGCTGGATATGCAGGCTTGTTACATAGAATTGGTGTAAATTTGAAAACCAT  
GAAAAAATAAAACAATAAAGGATCTAGATGCTAATAATGTGGTTAGTTAACATGTTGACCATT  
CAAAGCAAATAAGTCTTTGATGTTTTATACTATTATAGCAAGATATAAGTATTTAATCTGCA  
AAGACGTGGATTTGAAAATTCAGCTGCCAAATGTAAAGAACAGATTCCCTAGATTATTATTAAT  
AATATCTCTATAAATATTATTTATCAATAATGGGT

&gt;716

&gt;717

&gt;718

&gt;719

NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNGGAGACAGGGTCTCGCTCTATCACCTAG  
ACTGGAGTGCCTGGTGAATCTCGGCTCACTGCAACCTTCACACCCAGGCTCAAGTGCA  
ATCCTCCCGCCTGAGTAGCTGGAACACACGTGCGCACCCTAAACCCAGCTGTTTAATACA  
CCATTTTAAACCAAAACATTAAGAAAAATATAGGAACAGTAAGTAGATTACATTTTGTAAACA  
GACAAGCTTACAAGTTTTCTCAAATATGAAAGTCATACTAACTGGGAGACTGTTAACTTCTT  
GATGGGGTTAATCTCTAATATGAAGCCACAGTCATAGCTAACTACAAATTACATATACAATGC  
CAAAAATATTCAAAAATAACATTTTTGCACCTTAATGATTACAAATGCTAACCGACATAAAGA  
CACTGGAAAGTTTCAGAATCTCCTCATCACATACTTTCAAATATCTTCCCTTTACN

&gt;720

ACTTGAAGAACATGGTAAAAATATGTTCAACAATAATTTTTATCTTAGAAATGTATTCA  
GTAAAAAATCTCTTTANTTCAACTATCCTCTTGATTTCAGGGGAAAAAAGGATTAGCATGGGAG  
ATAACAGAATAGGAAGTTTAGGAGATAATGAGACTTCTGTTTTAGTAAAGTAAATAAGCTTTA

Table 4

ATAGTTTTTTGGTCATGTATTAGTTTACCAGCCTTGAAGATATTTGTAGGAAATTTTAAAAGT  
TTCTCTATTTTCATCCCCCATGATAAAAAATTATAGAATAAAAGCTGAATTGAACTTTCTTCAC  
AGCACACTGAAAAATATCTTCTATAGCATTAAATCAGATCACAGAATGCATATTTAAACAAAAAT  
TTGACTAATTTAANNNNNNNNNNNNNNNNNNNN  
>721

cggtaccccccaacgctgctcacagaagaggcaagattaatttccTACATTGAGGAGTTGTTGGATAATT  
ACTAAATTTGTCCTTGTTAAATAAAGGTATAAAACAAAGATGTTTTTCTTTTTAATTTAAATT  
TTTTACAGAGCTGAGTGTAATAATGTTAACTATGTTTTCTTTAACAGAAAGTTCTGTTTTGTG  
ATCCTTTTAAAAATAAAGCTTCACGGAAGGTATGAGAATAGTATTTTCAACTTTAAATTTCTC  
ATTACCAGAAGACCATGTGGTAATTCTCTGTATACAGTTAGAACAGCACGGAACCTTGAAGG  
CCTAAAAAATTAGCTGACCTTGTTAAAAATGTTGGCGTGAGCAGTATATTATTACCTATCTTTT  
TTTATTGTGTGTGTGTGTGTGTGTGTTTAACTAATTGGCTGAAATATCTGCCTGTTTCCCTC  
TTTACATTTTTCTGTTTTCTTTCTTATTTATCTTTGTCCATCTTGAGATCTACTGTAAGTGAA  
TTTTTAAATGAAAACAGTTCCAAGTTTTACTCTCAGTGGGTTTGGGACATCAGATGTAATTGA  
GAGGCCAACAGGTAAGTCTTCATGTCAAGTGTGTTGTTGAGGAACGAGCCTATGAGGTCAGTTT  
TCCCAAAAGGAAAAAGGGCAGAAGGGATTGTTTACATCTCGTTTCTGTAATACACC  
TTTGACTTCATGGTTGATCAGACTTTGAAGTCTAAACAGAACGTAAGCACTTGGTGTATCGAT  
TATCATACTACACAGTAGACATGTTTTCAAGGCATATCTTGTCACTGTGTGTGCTTCTGACTT  
GTATCTTTCCCTAGAACTAAATATTTTGAAGGTCCAAACATTATACTTTGGGAACTTGATTGA  
TTTTTTTTAATCTAGCTTTTCAAGTGTATAATGGTTACACGTGGTATTATTTCAAGTCCAAGAT  
ATTATGTATTCTATTTTAACTGTTTCCAGTTTTGTATTTTTGTATTGGAATGATTATGAAATT  
AATGAGAAATCTTTAGAAACAGACTACAAAAGAGTAGTTCTTAAATACAGAAGTGATTGTGAA  
ACTTTGTGATAGCAATGTGTGTAGTAGCAGTTTTGTCTCAAATACATTTATCATTGTGTTACTCA  
AAGGATGTTGAAGTATTAAGAGTCATTATGCTGTCTGTGGAATCCTACTATTAGTACAGAACA  
CCCTGCAGTGATTTTTCCGCCCATGTTAGCATTGAAGTTGTGAGCTCTACTTGCTTGTCTTTA  
TGGCCCTTTAATCAAGTAATTGGTCAGTATCCGTATGGGTCTTTTATACCACCCGCTGGGG  
GCTAACTAATTTAGCTGCTGCTGTATCTTACTAACAAGGAATAAATGTTAAGCTTTCTTCTC  
AGTATTGATGGATGGTATCTAAAAGTATTTTTTATGTTTTCTTTAACATGGCTTAAATTTTGAAC  
AATGTATCAAGTTAGTATGGTCATATTAATACCTGTGCTTTTCAAGTCTTCAAACACCTAAAT  
GAAAGTGATAAATCAAACTGATCCTTTTAGTTCCCTCATTATATGATATGAAGGGATTAAGTG  
TAGCAGGATAGTCAACCTGACCGTACGGCATGGTGCTTTTTTTCAGGATAAATCTTCAGACA  
AAAAAGTGCAAAACAAAAGGGGAAAAGGGGAGCAAAGGGGAAAACAGGCCGAAGTGGCTAACCA  
AGAAACTAAAGAAGACTTACCTGCGGAAAACGGGGAAAACGAAGACTGAGGAGAGTCCAGCC  
TCTGATGAAGCAGGAGAGAGAAAGAAGCCAAGTCTGATTAATAACCATATACCATGTCTTATCA  
GTGGTCCCTGTCTCCCTTCTTGTACAATCCAGAGGAATATTTTTATCAACTATTTTGTAAATGC  
AAGTTTTTTAGTAGCTCTAGAAACATTTTTTAAAGAAGGAGGGGAATCCACCTCATCCCATTTTT  
AAGTGTAATGCTTTTTTTAAGAGGTGAAATCATTGCTGGTTGTTTATTTTTTGGTACAACCA  
gttaacattccacagatggggggttagttgtatctCTAaatacagagcatATTAAAtggcAATATGGAGTCAGTCCG  
CATTTAATGTCTTGAACATTTTAAATTAATCTTCTATTACCATGTTGTTTTTGTAGTAATTTGTTT  
CTAAAGAAAACCACTCTTTGATCATGGCTCTCTCTGCCAGAATTGTGTGCACTCTGTAAACATC  
TTTGTGGTAGTCCCTGTTTTCTAATAACTTTGTTACTGTGCTGTGAAAGATTACAGATTTGAAC  
ATGTAGTGTACGTGCTATTGAGTTGTGAAGTGGTGGGCCGTATGTAACAGCTGACCAACGTG  
AAGATACTGGTACTTGATAGCCTC  
>722

ACATGAACCTATTAATAAACCATTTCATGCTTCCAGTTTGGCAGATGTGAGCAAACTA  
TGTATAGGAATTTCAAAGGTAACTTTTCTTTTCTTACTTTACAGAAATACTGTCAAGTCCAA  
TAGAGAGCACAGACTTGGGAGGCGGATTGGGTGGGTTTGAATCTCTGCTCTGCCACTTTTAT  
TAATCATGTGAGTTGAGTATGTGACTTAACTCTTTTTAGCTCAATTTCCCATCTGTAAAATAG  
GAATAATAAAAAATACTGACTTCAGAGAGGTTTGTGAGGATCAATTAGACAGTCATGTTAAGTC  
TGTAATTTGTTTCTGTAATGGGCAAGATAGCAAATATTTTAGATTTTGTGGACCATGCAGTCT  
TTATCATAACTGCTTAACTGCCATTATAGTGAGAAAGCAGCCACAGACAATATGTAATGAAA  
AAGTGTGTCTCTGTTCCAATAAACTTTATTTTCAAAAACAGCTGGCTTGTACATCTGGCC  
TAN  
>723

ACTTACTTTGTTGCTCTTTTTCTAAGTTTTAAAGATGGATGCCAATCTCAGGCTTCTTT  
TCGTGTGTGTATGTGCGTATGTCCATAAATTCTTCTAATTACAGTGAAGCCACATCCCAC

### Table 4

>724

**>725**

726

727

**>728**

≥729

**>730**

Page 223 of 355

Table 4

TCCTGGCTGATTCTCATGCTACAGAAAGCCCGAGTTTCTGTTCTGTAAATTGGGACAAGTGC  
CCGCN  
>731  
NNNNNNNNGTAACTAGTCTTCTAAGCTTTTATTACATTTTGTTCAAAATCAGTTGGA  
AAACTTTAATCAAATCACTCAACATTAGGAACCATATAAAAGCTACCATCTATTTTGAAGCTT  
TTTGCAGACTGAAATTAATTGAAAAGTAAGCCTGAAAACAGGAAGACACTAAGGAATTAACA  
AATTC AATGATAAGAGTTCAAATGTACAAATGAAATTTCTGTAATTATTATTTGGAATATCTGAA  
CTCATGAGAAAGATCTTTTGAGGGTCTTCCTATCTTGATTAAATTTATATTCTGTAACAATAGG  
ATGGAATTGAGAAGTCCTATAATTTTGATGTATCTAAGTATTGGAAAACATTTAAAGAATCATA  
AACGAACACAACCTTGGTAAGTCTTGCTTATAAATGTTAATAAATTTGTCAAAGTATTTGTTAA  
AGAAAGTATTTGAAAGGAGGTAAAGACATAGAACCCTGTGACAATCGTGGACTGAATTATTCA  
CATATGTTAACATTTACATGTCAATACCAAGACAAAAAAGAATTTACGATATCCTCCACTTAGA  
ATTTACTCTACAATTATAGTTCAACACTTGAGAGTGTCTTCTTAATTAATAAATTTATGATCTACA  
CAGAAGAGTCAACTGCTGATGTCAACAATTTCAAATTTAATAGTCAAAAAATGAAACCATAAC  
TCTAAAGATTACAAGCAATATTATAGAAAAAATTAAGAATACGACCACATTGAACGAAGATGT  
ATTCTTCAGAAAAGTACCACTAATTCTGGCATTAGAGATAGATATAGAATTAACATTAATAATAC  
GTGAATATATCCAGTACTATTTTGCACATGCACNNNNNNNNNNNN  
>732  
>733  
NNNNNNNNNNNNNNNNNNNNNNNNNNNNNCAACACAAATCGCTTTTAGATACCCTTTACGAAT  
CTAATAGGTTGTACACACTGTACAAAATCTGTGAGAACGTATACTACTTCTCGGCCACAACT  
TACTATTTTATAGATATTCATAAAATAACCTCTGATTGTGTTTTACATTGACCCATTCACTTCT  
GTCCAATCTTATAATTCTGATTAAATGTTCTGGGCCTCAAACTAATTTTAAAGGCCACTAA  
CTCCAAATCTAGGAACAAAACACTCTGTAAGACTACTGTAACCTGTATAAAATTAACCTGAAAA  
ATTCACCTCACTCCAATAAACTATGATTTATGTAGCTCATAAGAGGGTGAATTTTGAATATTTA  
CTCTATGAAAAAGCCTAAGCAATTCATAAAAACTTGATAACTGCACGTTTAGTTTGCAGCAT  
CTTGACCTGCCNNNN  
>734  
NCATGCTCGAGCGGCCGNAGTTGTGAGGAATCTGCAGAATTCCCCTTTCTGTGTGGA  
CGCCCTTTTCAAGGTACTTTCTCTGAATTTTATTAGCTACATTAAAAAAGAAAAGATCAAATGC  
AATAGATAGCACTGTAATAGATTTTGTCTACATTAAAAAATCCATTTGAATACACAGTGAAC  
AAAACACCAGAGTGGCTAAAAAGTCCCTTCATGCATATTTACTTAGCAGAGAGCTCTTGAGA  
AAGACCCAACCAATAAACCCCAACCAAGCAATCCAGCTACTTCTCTAGCTGAGAGGGTGG  
AATGACTCCAAATATTGTTTCAAGCTCAAAAAGCCTAAACAACCTCCACATAAANAACAAA  
AATCTATCTAATTGGACATTTACCTTTTGGAAATAAAGGCCAGNNNNNNNNNNNNNNNNNN  
NNNNNNNNNNNNNN  
>735  
ACTTTTTTTTTTTTTTTTTTTTTTGTACAGACACAGGCTGGGAATTTCCCAAATCTTA  
CAAGTTCTCGTCCCCTTTCCCTTAACAACCTTTTCCGAGTATCTCCGTCTTTTACACTTTATT  
GTAAGCGAGGAGAGCAGCCAGGCTGCACCTTTAATTTTATTACAGGATCTCAGCTCAG  
CCAAGTCTCAGCCATTTTGTAAAGGATCACTTTCTCCGGTTCCCGTGACCTGTCCCT  
CGCCTCCTCTAAGCCTCAGCAGAAAGCCTTCAACATCCACTTTTCCACAACATTCTGTCTAT  
GATACCTGCATTCTCTGAGATGCTAGAAGCTTTCTCTCCAGCTCTCCCTTTCTCTCTGAGC  
CTTCACCCGAGTCCCCATTGATGTCCGTATTTTACCAACAAGCTCTTCACCGCTATGGAGG  
CTTTCTCCAGCAGGTCCCTGAAAACGTCTGCANN  
>736  
ACCTATTCATATAGTTTTATGTTATTTGTGTGAATTAATAAATTTAGATGAAACAATTTT  
AGCATCTAATTTTTATTAAATTTGCATTCTTTCCAACCTTTTGTAGAAGTTCCAAATGAGTTTAT  
AGAACTTAAGAAATTAATCAGTCTTTCTGCTGTCCAGTTTTATAATGTATGCTTTCTTTTTTTC  
CCCTCAGAGGAAATAAAAGCGGAACTGAAAAACAGAGTCCTCCTCATGGAGAAGCAAAAG  
CTGGATCAAGCACCTTCCACCAGTGAAATCAAAGACAAATTTATTGAAGCAGACAAGT  
>737  
NNNNNGAATTCTATTACCCAATGTTTTGTGAGTCTCCAAAAGAGTAAAGGAAACAATT  
ATTTCAAGTTTCATATTTGAAAAATAACTGATTTTTTTTGTAGTAAAGAGATGCTTTATGTAGTT  
CTGGTCTTCTGGTGCTTTTTCTTTCTTTTAATTTGATATGATATCTAATTTTATTTCATGAATAA  
TGCGGCAACTTGTTGAAATTTCTTTTTTGGAAATACATTAGGTCAGCCAATCAACCCTCAAT

Table 4

GTGGAATCTACCCAGAGGAAATGATTGAGACTGGCATTTCGGCCATCGATGGGATGAACAG  
TATTGCTAGGGGGCAGAAAATTCCTATCTTCTCTGCTGCTGGGCTACACACAATGAGGTGA  
GGACTGGGATCGGTTTGCTATGAAGTTAGCAGACAAGAATTTCTTAATGCATCACTGTTACT  
GAGAAACCGAATAAAGGGTTTTCAAAACAAAAAAAAAAAAAAAAAAAAAAAAANNAAGN

&gt;738

ACTATCTGCTCTGAATTAATAATTTAGAACAATAATCACCTGCCGTGCCACTACACATG  
GACATAATCAACTGCTAAATTATGATTTGTTTTCTTCCAGTTACTTTTCCAATTATTTTACATA  
TACAAATATTTTCTTGGTAGAAGAACAAGTGGCACTATTCATTGTGTAGTTTTTTGTAAT  
TATATTTTACCCTAAGCATTCTCTGTTGTCTTAAATTATTAATTGAAAATTATTCATGGCTAAA  
TAATGCCTAGGCTGCCATGAGTCTTTTCTCCTTCTATAAACCGTGTGAGCATTCTTTTATATAT  
ATCTTTCAGCACATCTGCAATGATTTCTTTGGAATAAATTTCTAAAGTTCGCTGGATCGAAAA  
GATTCAGGGATTTTTAGTGTTCTTTCAATTTGGCAAAGTATTTTTAGAAAACAAGCCCATTTCA  
GTTCTGAATAAACAAATTCTTTTTATGTTGCATTTAAAAATCTANN

&gt;739

NNCTGGGCTTTAACTCCTGGGCTCAAGTAGTCTGCCACACGGCCTCCCAAAGTG  
TTGGGATTACAGGAGTGAGCCACCTTGCTGTCCCAGAGCCTGCCTCTCTTAACTGCTGCA  
CTAGACTACCTTCTTATTTTAAAAGTTAGCCTGCATTTCTTTACCTGCATTTTAAATTTTATTG  
AGTAGTTATTTTATGAGCAGTCTTTGAAAAATTTTATAAAGCGGGCTCCCCCTGAAATTTTAT  
AACCACATTCCAGATTTACCAGCTGTGAATGTCTTGCCACACCTACTTGATCTCTCGCTATG  
CGCGTACACAGTTTCTTCTTTCGAAACAATCCAGAAGTAGGCTAGCAATGGTCACCCCTACA  
TACTTCCGCACACATCTTAAAGAACAGGACACCAATTACCACACCCAAGAAAACCAGCATTTAA  
TGAATTTATTCAAGAGTATCATCCAACATACTCAAATATCCACAGCTGTTCCGAAAGTATCCTT  
CAATTCTGGATCCATTGATGTTTACAGGTTGTATTTGGCTGTTACATCTTTTTAGTTGTTATC  
CTTCAGAGTAAACTGGCCTGCCCTCTTTCTTTCTTACAATATTGACTCCTTTGAGGAACC  
GGGGCTGGATGTGGAGCATTCTCCATTCTGATTGTTTCCATGTGACCAGATTTCGGGTCA  
CAAATTTCTGGCAAGAACCCTTCACAGATGACCATGTATTGGTTATTAGGTAACAATAGATTA  
CTCAAGTAGCGAACTGGGTTGGCCTTTGGCATTAGANNNNNNNNNNNN

&gt;740

&gt;741

NNNNNNNNAGTAGAGACAGGGTTTTCGCCATGTTGACCAGGCTGGTCTCAAACCTCTT  
GACCTCAAGTGATCCACCTGCCTTGNCTCCCAACAGCTGGCATTACAGGCGTGACACCNCT  
GCCCCGCTGAGTTATGTAACCTTCAAAAGCCACGGCCCCGGGGCAGACATTACACACCCCA  
CACCTTTTATAAGGAAGCATGCGTGTTCCAGGACACACATCAAACACATCAGTGCGGTATCT  
GTGAGGAGGCATTTGGGAGCTAAAGACCAATAAAGGGGAAAAAATAAATCAGCATGTTTGTG  
ATTCTATTTTTTTGTTCAAAAAAAGTCTTACACACGTGTTATGTGTAGAGAAAAATGTTAGGAA  
GGATGTGTGCCAACATGTTGAGAGTGATTTTCTGGATGGTGGTAGTATGAGTAATTGACAT  
CTTTTCTATTTACTAATGAGCATTGTGAACTTTTCTACCAAGAATGTTATATACAATATATACT  
TTTAAAAAATGCTAAAAGTTAAACAAAAACAAAAATGGATTTTCATTAAGTGTATAAAACACCTGTT  
CAACCTATGCAATGTCACTCGATCTACATCCAGCCACTCAAGGTCTTCCATTGTCTGTCTTA  
TCTTTGAGCTAGCTGCCATCCTCTCATCTCTGACTGCTTCTCTAAACCGCTCATGAGCATTAA  
TGCACTGCATCAACCTATCGTGTTACCTTGTCCTTACTCTTGCTGTTTCGTGGCCTGCAAG  
CCCATGTGCTCCTGCTCAGAGCACATCCAGACTCTGTTGATCCTTCAGCACAATGTTCTCTCC  
CTCAATCCTTCACTGGGAACATTAGCCAATGATGACTCCATCCCTTCTAAAAATACCCAGCACT  
GATGCTCTAGCATATATCAACTATAATTTTCATCATTTACACCATTTAATAGAATTCTGAAGTTT  
CCTCCTACAAGCCTTTTTCTTCCAGAAAGTCTGTGAGTACTTCAGGTTAGAGATGACTTCAATA  
TATGTGCGAGACCTCCCAAGGTGAGCATCACACAGCACTTATCATAACCACGAAGCAGCTCC  
ACAGAGGCTAAGATGAAAAACAAAAATCTCAGGAAATTTATGTTTATAAAAAATGATACTTGCAA  
AAAAATGAATGGAACCATCTCCATTGCTTATTTAGAGTGTTGACTCACTGAATAAGATTTTAAA  
TTAGTCAATAGTATTGGATGCCTCTATATCTGCATATCAATAGGCTCATAAACAAGGTTGCTC  
AAAGAACTGCCCATCAACCACTTGTTTTCTCTCTGGACACCACACTGTTATCTTCTTTGGC  
CTCTGTCCATAACGGGTCCAGGCTACGTGCACCAAGGAAAAAGAAATTGGGTCTTCTCCCT  
CCCCTGGTTTTGGTTAGGAGGGGCCAGAAAGAAAGTCAGGACAGACCAGGTGTGACTGTCCCT  
AACCCAAAGCAGGCTACCGTGCAGAACCCAAACCCAGGACATAATCACCAGCCATGCGGGAA  
CATGGTTAGCATGACCAGCACTCATCACAACGATCCCAGCCTTTGTATTAATGGTGCCAAAT  
ATAGTTTTCAAAAGCAATGTTCTACCATTCCCACCTTCTAACAGTAATGATCATTTTGATTAG

Table 4

TTACTAATAGAAGTCCCATGGACTTAAGATCTGAGCAAATAAAGCTTTAATCTTCTTAAGCATA  
TAATTACTGGCATTGAAAAGGCATGACATT

>742

ACAGGTTTCCCTTGCCTCAACTTCTCATCCTGGGTGATGAGACTGTTACTTTCCTTCT  
TGTATAAAGAGGGCAACTTTTCATGTAGAAATTTTACCTCCTACTTTTAAGAAAAAGGAAATC  
AGAGTGCTTTAAAGGAAAAATCAGAGTGCTTTTCTTGCATCTGCTATTTTCAAGTGCTTTTAAAC  
TCAAAAAAATCAATATGCCAAAGTGCCATGTTTGGGGGTATCTGGTTCTGAATTCCTTCAGGA  
AAGATAGAAAGCAAAAGCAAAATAATAGGTTTAAACTAAAAATATCCAGGTGCGGTGGCTC  
ACGCCTATAATCCCAGCACCTTGGGAGACTGAGGTGGGCAGATCATGAGGTCAGGAGTTGCG  
AGACCAGCCTGGCCAACATAGTGAAACCCTGTCTCTACNNNNNNNNNNNNNN

>743

CCACGCGTCCGAGAAAACTAACATTTACTGTATAAATGTTTGAAGGGCTTTTGTGTG  
TTGTCTTATTTAATCTTCACTCATTTTACAGATGAGGAACTGAGGCTCACAGAGGTTAAATC  
ACTTTTGAAGATCGCATTCAAGTAGTAAGCCATAACTGCGTAGCACGGTTCACCTCCATG  
AGGCTGTCTTGGGTCTTGTCTTCTCAGGTGTGGTGAGCGGTCTCTTGGATCTGTGTGGTGAT  
CCGATCTTGCCTCCGTCACTGTGGCTGACTGCATTGTCACATTCATTGGCGGAGGCCAAT  
TTCTACAGGTGCTTTTCAAGATCAGGTCACTGCGATGGTCTCTAAACACCATTCGCTTTCTC  
TGCTCTCTTGTCTTTAGGAGCCGGGTGTGGGCTGAGCCCTGCCTGATTGATGCTGCCAAGG  
AGGAGTACAACGGGGTGATAGAAGAATTTTGGCAACAGGAGAGAAGCTTTTGGACCTTAT  
GTTTGGGGAAGGTATGACTTGCTCTTCATGCCACCGTCTTTCCATTTGGAGGAATGGAGAA  
CCCTTGTCTGACCTTTGTCACCCCTGCCTGCTAGCTGGGGACCGCTCCTTGGCAGATGTC  
ATCATCCATGAGATCTCCACAGTTGGTTTGGGAACCTGGTCACCAACGCCAACTGGGGTG  
AATTCGTGCTCAATGAAGTTTACCATGTACGCCAGAGGAGGATCTCCACCATCCTCTTT  
GGCGCTGCGTACACCTGCTTGGAGGCTGCAACGGGGCGGGCTCTGCTGCGTCAACACATG  
GACATCACTGGAGAGGAAAAACCACTCAACAAGCTCCGCGTGAAGATTGAACCAGGCGTTG  
ACCCGAGCAGACCTATAATGAGACCCCTACGAGAAAGGTTTCTGCTTGTCTCATACCTGG  
CCCCTTGGTGGGTGATCAGGATCAGTTTGACAGTTTCTCAAGGCCTATGTGCATGAATTC  
AAATTCGAAGCATCTTAGCCGATGACTTTCTGGACTTCTACTTGAATATTTCCCTGAGCTT  
AAGAAAAAGAGAGTGGATATCATTCCAGGTTTGAAGTTTATCGATGGTGAATACCCCGGTGG  
CCCCGTAATCCTGATCTCTCCCTGGGGACTCACTCATGAAGCCTGTGAAGAGCTAGCACA  
ATGTGGGAGCGAAGAGCTGGACTGAGCATTGAAGCGTGGCTTCTCCTGGAAGACTACCGGT  
GGCTATTCGGAAGAACCCAGAATCCCTCCCGGTGTGAAATGGGGCATTCCCGTTTCAAG  
GGAAGGGACCCGGGGGGGATTCTTTAAACCGTTTGAAGCTTGCCAGGGAAAAACCC  
AGGGGGGGGGCCCCATTTCCTCTTTTACTCN

>744

ACGCGGGTGTTTTTTTTTGGGTAATTTTCTTGAGTTAGAAATGTAGTTAGAAGTGTGA  
CTAACGGCATTGCCTGGAATGTGCTACAAACACGATTAGATATTCATTATCTTCTCGTATT  
AGACTGCTTGTATAGAGACTCAGTGTTTAGACATTCATTTCTCTTCTTGTATAAGACTCCTT  
GTATAAGACTCGGTGTTTATCTTTTAAATTAACCAACAACAAATATATGAGTTTTTAAC  
CATTGCAATGTGCAATAAATAATATATCTGAAGTAGCATTAGCCTTCTAGTTTTAATAATNN

>745

ACCTTTTTTTTTTTTTTTTTTTCGTCAAAGTCACTATTTGGGCCCTAACATAATCCCT  
GCTCAGAGCGACGGAAAAAAGGCAAGCCTTTTCAAACATAACTCTCTACAAGCCAGCTAT  
TATGGCAAGGGAAAAAAGAAAGCATCTAGATAAATATCTATCAAAATTAACCTTAAAGAGAAAT  
ACTCTCTTTCTTAAAGCCCTTATTTTTTAAAGACACTAGAAAATAAGTTACTATAAAAGTGG  
TGGTCTGGGGGCTAAAAACAAAAACAAAAAATCCTCTTTTCTACATTTTTTAGTTTTCTG

>746

NNCACACGCGTCCGGGGGCGGGGCGGAGCACTCGGCGGAGCCGCTCTGCCTGC  
GTCCGCTCTTCCCGCAGCCAAGGGTGGGCGCGGTCTTAGGAGGCGCACGGTTGTAAGCC  
AGACAAAAAGAACTGGGGTGCCCGGAGTGCCAGGTGGCGGGCAAGCGGTGGGCTTTTCGG  
CGGGGTCTTTAGGATTTGCAGCTCCAGGAAGCGAGATGTGAAGCCGCCACCCAAACAGT  
CAAAACAGGGCAAGTTAAAGTCTTCAGAGCCCTGTATACGTTTGAACCCAGAACTCCAGATG  
AATTACTTTTGAAGAGGTGATATTATCTACATTACTGACATGAGCGATACCAATTGGTGA  
AAGGCACCTCCAAAGGCAGGACTGGACTAATCCAAGCAACTATGTGGCTGAGCAGGCAGA  
ATCCATTGACAATCCATTGCATGAAGCAGCAAAAGAGGCAACTTGAGCTGGTTGAGAGAGT  
GTTTGGACAACAGAGTGGGTGTTAATGGCTTAGACAAAGCTGGAAGCACTGCCTTATACTGG



Table 4

GCTTGCCACGGGGGCCACAAAGATATAGTGGAATGCTATTTACTCAACCAAATATTGAACT  
GAACCAGCAGAACAAAGTTGGGAGATACAGCTTTGCATGCTGCTGCCTGGAAGGGTTATGCA  
GATATCGTCCAGTTGCTTCTGGCAAAAGGTGCTAGAACAGACTTAAGAAACATTGAGAAGAA  
GCTGGCCTTCGACATGGCTACCAATGCTGCCTGTGCATCTCTCCTGAAAAAGAAACAGGGA  
ACAGATGCAGTTTGAACATTAAAGCAATGCCGAGGACTATCTCGATGATGAAGACTCAGATTA  
ATTCCTTTCTGGAGCTTTGAGATCTAAACTTCTGTTGCTTTGCCATTCCAAAACCTTTGTCTT  
TGCCAGAAAAGTGTTGGTAACTATAAAGAAAAATATATGAACACGGCAGTGTTGCACTGTG  
TTTGAGTAGAACGTGTAAATGAATTGTTCCACCTTTGGTTTGCCAGTAAGTGACTGGATTCT  
TGGCACATTTGTGTTACCAAAAGTAGAACAAAGAAGATATTATTTCTATTTATCAAGCAAAAGG  
AATTTTAAGATTTTTTTTTCTTTAAAAACAAATTAGGATTTTTTTTTTTTTTTTTTTAGTTA  
AAATGCTTTACCTCAATGGTTGAGATATTTGAATGGATTTTTCAAGGGGGGGAAATGCTTAT  
TATAATAATAACCAAAATACTTAACAGAAAAATGTCAGCTATTCTGACAAAAATAACATTTT  
GAGAGACTTTATTTCTTTTGTCCGTTTTCTGTGGTATCACTCATTGTGCTTAAGTAAGTAAAGCT  
TTTTATTTAGGTAAGAACTGATTTTATTTTTAAATTATTTTATTTTATTAGCACAGAAGA  
ATAATGAGAGCCACATTTTAGTTCAACTT

&gt;747

GTCGACCCACGCGTCCGACTTGCCCGGGGACGCGCTGATGGGAGGATGGACATAC  
TGGTGTCTGAGTGCTCCGCGCGGCTGCTGCAGCAGGAAGAAGAGATTAAATCTCTGACTGC  
TGAAATTGACCGGTTGAAAACTGTGGCTGTTTAGGAGCTTCTCCAAATTTGGAGCAGTTAC  
AAGAAGAAAATTTAAATTAAGTATCGACTGAATATTCTTCGAAAGAGTCTTCAGGCAGAAA  
GGAACAAACCAACTAAAAATATGATTAACATTATTAGCCGCCTACAAGAGGTCTTTGGTCATG  
CAATTAAGGCTGCATATCCAGATTTGGAAAATCCTCCTCTGCTAGTGACACCAAGTCAGCAG  
GCCAAGTTTGGGGACTATCAGTGTAATAGTGCTATGGGTATTTCTCAGGTGATGTATTGTCTAT  
GACTCTTGGCTGTTTGATTTTTTAAGTATTATTATCATCATTGCCATTTACAGAAATAATACTA  
TTACAAGTTGTATCCTTAGTGAAAAGGACATTTGCCACAGTTTGAAAACTTGAGAAAGGAGT  
TGGGGGGGTATATGTTTTAACTTTTTTAGGCACAATTTTTAAGGTTTGGTTAAATTTTATATGT  
ATTCTCAATATTTAAGGGCAATCATTGGTACTCTTTTGTAGGTATTTCCCTCCTGCTGTGTC  
CAGGATTGCTGTGTGGTGGTGATGAGTGCTGGGAGGTGAAAAATTAATAAGCCATTTACC  
AGTCAGCATCCCAATTAATATTTGATGTAAGTGTGATCTTTGAGCCAGGCTTATATATTCATT  
TTCAAGCAGAGGAGTTCCCATTTTAAATAGAGGCATTGTCTGATGTGTTTATGGTTAACTGC  
ATCTGGCTTGGGTCTTTCTGTTTTCTTTCTTTGCTGAATTAGAAGGGGTTACTCTGAAGAGT  
CCAGGTCTTACAGTGTGGTTT

&gt;748

ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCATTCAAGAAAGATAATTTTACACTT  
ATTCTTTGAAAGAAAAATCTATGGAATTTTCTTCTTAATTAATTCAAAAATACATTCTCTC  
AACCCTATGCCCTCATACTAGTAACCTTGATGGTTAGCGGGTAAGTAGGTAGTAGTAAAAGAG  
CAAAAGGGGAAATTTGGGGAGCAAAAAAGGGAGAAAAAGAAAAAGGGACCCTTCTAGTTT  
CCTAATAGAAAAGCTAGAGAATTCCATTCCCTGAAAATTAANN

&gt;749

NCTAATTTAGAAGGTTGTTTACAAACCCTTTGGAAGGAATCTTTTATTTCCCAATTTA  
AAAGGGGTTTGGATTTCTTAAGAAGAGGCCAAAATTTTTTGTGTGGGACCCATGCATAAAAA  
TTAAATGGATTTCTAGTGGAGTTTATAAATTAAGGTCAAACTGAAGCTTTTTATTAGG  
CTTTTCCAAATCAAGGATAAATATCTTACGCACGATATCTAGTGACAGAGGAGAAAGTGGAAA  
ATGACCTCAAGGAAGCTACGGGCACAACTGGAAGCTTTGTAGAAATTAACATATTCAAGGA  
GCAAGAAATGAATTTTACGAGTCTAAATTTTCTAAATAACCAATAGTTGCCAATCTAAATG  
GCAGAGAAGATGAAATTTGATAAACTGAATTTTTTTAAAAATCCATTTACCTACAGGTTTGC  
ATTTGTTTGTGAAATTTACCTTTTTTGTATATATATGTGTGTGTGTGTGTGTAATTTCTGC  
CAATAAATCTAAATTACAAAGGTAAGAGAAAAACCTAGTACATTACTAAATATATAAGTATAT  
GTTCTGATTATGTACTTGTCTAGTGTCAAGTCTTTTAAAGTGGGTTTTTAAAGTTTGTTA  
TTGGACTTGAATGGATTTTTGAGACTAGGTTAATTATTTTTGAGGTCTTATCCTAAAAGGCATC  
TAAGGTACATGAATGGAGTATGGTGATTTTATAACATTTTTATCAGAATGGAAGAAAGAACTG  
TTTAAAGTTTGATACTTTTAAATAGTTGGTTTTTTGCTTACTCTGGTAATGATTTTCTACAAA  
TACATAATAAATGTTTTTTGATTCTATTTCTGTATGCAGTTGAATATCCATTACTTATTTCTG  
CTGTGCTTTAATAGAAATGGAATGTTTACAGGCCCTTAAATATTATTTTTAAAAACCTTCTGA  
AGATACATACCAAAGTTTTTCCAAGAAGATTTTATAATCAATTTAATAATGTAAGGTTTATCAG  
ATTCTATAATAGTATAGTTATTAAGGCAATTTTATGTTAGAGACTATTTTGAATGTAGTGAGT

Table 4

GGTACCTTTATAAGAAAAGTGACTGCCAATATATTTTTATAGCTGATCTTTATAAATTCTAATG  
TTGAGTTTTTAATGATTATTTAAATGTTTATATAGTTTAGTAAAATTTGCATCTCAAAGTATCA  
TTTTATATTATGGGACGTTTTAGATTGGCTAATATTTGCATTGTAAATTTGTATGCAGTTTA  
TCTAAAATTCAAAAATACTGTCAGTACACCAGCGTTTAAACATCTATATTCCAATTTGTATACAG  
TTTAAAATTTGACTGCAAACTATTGTGTGCTCTTACACAGTATGCATCATATTGTTGTCTGTG  
AAATTAAGGACATTTGATAGTCTACTGAATGTAAAATATAATGCTTGGTATATGAATGAN  
>750

ACATTTGATTGTGGCATATTCAACTATGATTTTAGACAAGATGTGTGTGTGTGTGTGT  
GTGTGTGTAGACAAAATAAAATTCAGAAAGAGAAAATCTATTCTACAATGAAATTCATCTCTT  
ACTTAGCTATTTTGAAATTGTGTCCCAATACCACATTAACAGAGCCAAAATGAAATTTAAAT  
ATGGTTATACTATTATTCACACTAGGTAGGGTCAGGTTTTTTGTCTGAATTAATGGCTCCTT  
TACGCTAGCTACTTAGGAACCACTTCCCATACCCTCAAGCTAGAGTAATAGATACCTGACCC  
ATTTTAAAAAGGAAGAGGGTTCCAATCAAGGTCTCTATGAAGTTTAGAAATGGGTTCAAAGCC  
TAGTTGT  
>751

ACATTTGATTGTGGCATATTCAACTATGATTTTAGACAAGATGTGTGTGTGTGTGTGT  
GTGTGTGTAGACAAAATAAAATTCAGAAAGAGAAAATCTATTCTACAATGAAATTCATCTCTT  
ACTTAGCTATTTTGAAATTGTGTCCCAATACCACATTAACAGAGCCAAAATGAAATTTAAAT  
ATGGTTATACTATTATTCACACTAGGTAGGGTCAGGTTTTTTGTCTGAATTAATGGCTCCTT  
TACGCTAGCTACTTAGGAACCACTTCCCATACCCTCAAGCTAGAGTAATAGATACCTGACCC  
ATTTTAAAAAGGAAGAGGGTTCCAATCAAGGTCTCTATGAAGTTTAGAAATGGGTTCAAAGCC  
TAGTTGT  
>752

acgCGTCCGCGgtcGCGTGGGTGAGCCATGTACTTCAAACAGAAGGCAGCCAAATTACT  
AACTTCTGGTTGCTAGGTGTGGCTTCTTTAAATCCTATAAAATCAGAAGCCCAAGTCTCCA  
CTGCCAGTGTGAAATCTTCAGAGAAGAATTTCTCTTAGTTCTTTGCAAGAAGGTAGAGATAA  
AGACACTTTTTCAAAAATGGCAATGGTATCAGAATTCCTCAAGCAGGCCTGGTTTATTGAAAA  
TGAAGAGCAGGAATATGTTCAAACGTGAAGTCATCCAAAGGTGGTCCCGGATCAGCGGTG  
AGCCCCTATCCTACCTTCAATCCATCCTCGGATGTGCTGCTGCCTTGCTAAGGCCATAATGGT  
TAAAGGTGTGGATGAAGCAACCATCATTGACATTCTAACTAAGCGAAACAATGCACAGCGTC  
AACAGATCAAAGCAGCATATCTCCAGGAAACAGGAAAGCCCCTGGATGAAACACTGAAGAAA  
GCCCTTACAGGTCACCTTGAGGAGGTTGTTTAGCTCTGCTAAAACTCCAGCGCAATTTGA  
TGCTGATGAACCTCGTGCTGCCATGAAGGGCCTTGGAAGTATGAAGATACTCTAATTGAGA  
TTTTGGCATCAAGAACTAACAAAGAAATCAGAGACATTAACAGGGTCTACAGAGAGGAACTG  
AAGAGAGATCTGGCCAAAGACATAACCTCAGACACATCTGGAGATTTTCGGAACGCTTTGCT  
TTCTCTTGCTAAGGGTGACCGATCTGAGGACTTTGGTGTGAATGAAGACTTGGCTGATTGAG  
ATGCCAGGGCCTTGATGAAGCAGGAGAAAGGAGAAAGGGGACAGACGTAAACGTGTTCAA  
TACCATCCTTACCACCAGAAGCTATCCACAACCTTCGCAGAGTGTTTCAGAAATACACCAAGTA  
CAGTAAGCATGACATGAACAAAGTTCTGGACCTGGAGTTGAAAGGTGACATTGAGAAATGCC  
TCACAGCTATCGTGAAGTGCGCCACAAGCAAACCAAGCTTTCTTTGCAGAGAAGCTTCATCAA  
GCCATGAAAGGTGTTGGAACCTCGCCATAAGGCATTGATCAGGATTATGGTTTCCCGTTCTGA  
AATTGACATGAATGATATCAAAGCATTCTATCAGAAGATGTATGGTATCTCCCTTTGCCAAGC  
CATCCTGGATGAAACCAAAGGAGATTATGAGAAATCCTGGTGGCTCTTTGTGGAGGAACT  
AAACATTCCCTTGATGGTCTCAAGCTATGATCAGAAGACTTTAATTATATATTTTCATCCTATA  
AGCTTAAATAGGAAAGTTTCTTCAACAGGATTACAGTGTAGCTACCTACATGCTGAAAAATAT  
AGCCTTTAAATCATTTTTATATTATACTCTGTATAATAGAGATAAGTCCATTTTTTAAAAATGT  
TTTCCCCAAACCATAAAACCCTATACAAGTTGTTCTAGTAACAATACATGAGAAAGATGTCTA  
TGTAAGCTGAAAATAAAATGACGTCACAAGGCAAAAAAAAAAAAAAAAAAAAAAGaaagaaaaaa  
aaagggggggggcccgcgcaaaaaatatcccccgggggggcggaagagaatcaacgcgcgtccccacgattgttctgtgt  
gtacaaggggggtcccccaaaaaaaggggaatcctgtatataataacacgcgatgcgcgaggggcgcgcggttcacaaaaga  
cagcgggggcggggggaaaaaagggcgaccctgggggaacccctggtgaacaaaaggaaacccctctactctggggggcg  
ggggaagcacaataatgggagaacaacctcgcgccagacaacaatgatatgccaacacgcccctcagcaggagacactataat  
ccacgatctccgacatgggtgctgtacctacggtgtctatccaccagccacggaataactctactcaagtggccaggcgccgca  
gacacacttttgcgaccacccacgagcgtgctaagtgaacataacgaacacagtaacttttaccacgaggggacccctgatg  
cacaacaacaaccgaccgacagcaccatgcacaccaagccaacgaataaaccaagacacacagaccaaccaaatcaacc  
aagcccggaaccagacagacatagcagctaaccaccaaccagcagcaatcacaccgaacacaacacactgacacacacagc

Table 4

atcaccacagcgccagccacagacaccacaatggcaacgcccaccaccgacactccacacacaccccgcatgacacgcatcccc  
acaccaagca

>753

TTTTTCACAGTTTAATATATCTGAAATCATGATGCATATGCAATTAATTTTCAGAATTTA  
GCTGCCCTTTGTTTTTTTTTTTTTTGGTATTATATAAAATAATAATGCATCTTACAGGGGAAGT  
CATAAATCCAATGAAATAAAGTATTTACCTGACATATTTTTCCCATCTTCTTATTTCAACCATT  
TGACTGGTTGTCCAGCCCCAAATTGTTGGACTTTTTTAAACAATTACACTGACTGGCAGTCT  
TCACCTTTAAATAGTTGAGTTCATCCCTTTAAATCATTTAAAAACATGATTTTTAAATTTATC  
TCCATTACCTTATTTGTGTTTACTTTTTACTTTTTATTTATTTCTCCTTCTATTAGATGAATAA  
AATGTTCAATAGCTCCTCTTGTTCCTAATCCAGGTTTTTAACTCTATACATTTTGTAGTAAG  
TTTTAAGATCTCAGTTTACCTACTTACTTATAAATATTCATAAGAATGTATAAATTTATTTTATG  
TTTCTTACTAATACTCTAAACAAAAAATGATCCCCGCGTTAATTAATNCTAGAAGTATCTCCG  
AGGGGGAGACCCGGTATCCCAN

>754

ACTTTTTTTTTTTTTTTTTTGGTGGGGAGCTGTATTTATTTCCAGGGCTGTCAAAACA  
AATATCCATAAATTGGGTGGATTAGAACAAACAAAAATTTATTTCTCTCTAGAGAAGAACGTTTTCT  
TTGCCATTCCCTGGCTGCTGGTCATTGCTGGCAGTCCCTGTCTTCCCTGACTAGTAGTATC  
ATCATTCTCATTTCTGCCTCTGTCTTCATATGGCTGTCAATTTCACTGTGTGCTTGTCTCTGGG  
TCTTCAAGTGGCCTTTTTATAAGGACACTGGTCATTGGATGTAGGGCCTACCCCAAT

>755

ACATGTTGGAAGGGTTTTTAAATGTTTTGAACTGTGCACAGGCCAAACCCCACTTT  
CAGGACATGGGTTTTCAACTTCTGGATGGTATGATGGGGTGATAGTAGGGTATAAAAGTATC  
CTGAGAAGTTGAAAGCAGTGTGTGAATGGGGTGTCTTTTCTCCCCACAATCCTTTCCCATC  
TGCTGACAGTAGACTTAGCACCTCACAGATGCTTGGGCCTGGAAATGAAGCCATGAAAAATGA  
AGCCCTCAGCCTTCTTGAGATCAGAGCCATGGTCCTACCCACAGCACATGGG

>756

>757

ACTTCTTTTTTTTTTTTTTTTTTAAATGAGTAGGAAGAGATGGTATCACAAACACAA  
AGCACAGGTTACTGTCTTTAAAAATTTGCGTTCTTCTATTCTCCAATGGAAGTGGGAACAAAG  
AGAAAACCCCTGTGTGTCTAGCACAAATATGGGCATTTGTGTGGATTTAATAAATGGGCATTT  
GGATTGTTGGGAAAATGTGATCAATCAGCAGGCTATAGAAACACAGTTTGATACGATGGTGA  
AACTTGTCTACAATGATGTTTTTTCAGAAATGTTGGTGTGATTAGAACAAGTCAGCAATGAT  
GATGACAAAATATTTACATAATGTTATAGATGTGGCTTGCTAATGGAAATACCTATCTGAGGC  
TGTTTAGGAATACACAAATTGAGAACCGTTTAGTTTCAGTTTGCTTTAAACAGTGTTTTCTG  
AACCTTTTTATGTTTCGTGATCCTATGATTAGTAACATCTTACCATTTTGAATCACN

>758

AGAAGCTTTCCAAGGAGTTATGAAATCTTTGTAGACCAGAGGCCAACTATTATCACC  
TCAAGTCTGCTCTACCAACAGCCCTTGATTTTTTTCAGGGAGAAATCTCTAGGAAAAAAGTCA  
GACACCAGTGTAGTCCCCGCGTACCTGAGGGAGGAGAGACATAAATCCCTTCATCCCTAAG  
ACTGAACTATGTAAGTAGCAGCCTCTGGCTTGTTTTCTACTCCCTGTCCCTCAGGATAAAATG  
TTGATATTGCTCATTTTCTCATTTCCAACATTGTTTTAAAC

>759

ACTCCGATTGCCTCTCCCATGCTTCTCTGCTTTCCAAAGAAAAAACTGACCTTGTATA  
GATCCTGTCAGCTGATTGCAGTGCTCTTAACCTTCTCCATTGTGAGTTGTTTCAGTCTGAGGAG  
TTAGGTATAAACCAGAGTGGTATTCTCTTTTCTGTTGTGTTTGGTTTTGCTTACATATTCAGG  
AGCTGCTCTTTACCCCCAGAACATCCGTATATATGTTTTTTCTGTTTCTAGATTTAAAAATAT  
TCCAGAAGCCTGGCCTCAAGATAGATAATATTTACTTTTAATTTGGTGCCCTTGTTTTAGAG  
ATTTGAACTGGATTGCATTTAGTAAACCAACCCCATCTTTAAAAAAATCATCTTAAAAAATAA  
TAGTGGGCCGGACATGATGGCTCACATCTGTAAATCCCAGCACTTTGGGAGACTGAGGTGG  
GAGGACTGCTTGAGCCCAGGAGTTTGAGACCAGCCTGGGCAACACAGTGAGACCTTTCGTC  
TACANNNNNNNNNNNNNNNNNNNNNN

>760

>761

ACAGATATAAAAAGGCTACTATTCCAAGAACAAAATCCTGGAAACAAATGTCTATCAA  
GAAAGCAAAGATAATCTAAACAGCAGCATATTATAGGATGACAACTATTCAACCATTATAA  
AGAAAACCGAATCAAAAGCACTGGCTTATTAGACAAGAGTTTCCCAACTATCATGCTAAAC

Table 4

AGTAACAGCGAGCTTCCAAATTAATGTTGCCTTTTTTTTTTTTTTCCAACTGAAAGGAGGGT  
GGGGAAAACAAACGCATCATATGTAAAGCACTGAGTCCAGCCTG

>762

ACGCGGGTATGGTTTTACGAACAAATTTTAAAGGAAAAAATTATCATGGTTCTAATC  
TTACATGTTAACATTTCCCTGTTATGTAGGGATCAGACTTGTATAACATAATCCACTTTATA  
ATTCAATGAAGAAGAAAGTTTGTCTGATTCTGAGGTATGTAATATTTTATTATTACCATA  
TTGATATTCTCTATATAAAAAAATTTACATATTGTAGTTTTAGGTAAAGCTGTTGTGAACATT  
ATTTTTGTCTAGTGTAGTTAATTTAAAAAACAACACTNN

>763

>764

>765

ACAGAAGCAATGTTTTTGAAGTTTTCTATCTGTGGTTTGTGAATCCACAGATGCA  
GAACTCATGGAAACAGTGCCCACTGTATGTCACAATTTAGAAAATCAGTATTTATACAATC  
AGCTAATAGCCTAATTTGTTGAGCACAGAAAAATACACTGAACCAATTCTGATTATTGCAGAG  
AAATGATTGGCAGGATATTGGGAAATAGAATGAAGGGCGGAAAGAATTTACATGGATTGAG  
TATACTCTCCGTCAGGAATTTTGTCCCTTGATCTTTTGTGTTTATTGCCNNNNNNNNNNNN  
NNNNNN

>766

ACAGAAGCAATGTTTTTGAAGTTTTCTATCTGTGGTTTGTGAATCCACAGATGCA  
GAACTCATGGAAACAGTGCCCACTGTATGTCACAATTTAGAAAATCAGTATTTATACAATC  
AGCTAATAGCCTAATTTGTTGAGCACAGAAAAATACACTGAACCAATTCTGATTATTGCAGAG  
AAATGATTGGCAGGATATTGGGAAATAGAATGAAGGGCGGAAAGAATTTACATGGATTGAG  
TATACTCTCCGTCAGGAATTTTGTCCCTTGATCTTTTGTGTTTATTGCCNNNNNNNNNNNN  
NNNNNN

>767

NNGAAAATAACCAGAGTTGGTTTTCTGTCATGTACAATCAAAGGAGTCTAATGGAACC  
AAGTAGCAATGTTCCCGAAAACAAACAAAAAACCCTTCTGCTGTTTCTTTCCC  
CTCTGTATTTGCTAACTTTATCATGACTTTATTCTTAAAGCCTATCACTGGTCTGCTTTATTAA  
TAGATTAGTGGAATTTTACCTGGCCTATTAGCACCTTATAAAGAAATAGATTAAGAGTAGG  
AAATATATAGATGAAGATGTAAGTGTATGAAGTTGTGTAATAATCAGTATGAAAGTTCAATGTT  
GCTGTTCTTGCTCAGTGATTTTAAAGAAATTGAGTAGTTTCTATGTGATTTTTTTTAACT  
GCATAGTAACTTAGATGACTCTTCCCCTGGATTTTACCTGGGAGTGGCCTTTTACATTTT  
TATTTAAAGAGGGCAGGTTTGGCACTTTTATACTGATGTCACCAATGTTAATATTTCTTGGG  
ATCTCAGGAAGATTATATTCTTACAGCTGATACAGCACGGGCTGGAGCTCCTGCTAAGCC  
AGCCTGTATACAGAAGCAAATAAAGAAAAAGAAATGTACAACCTCAGGTGTAGCTCATCATA  
AAACACTTACAATGTCTN

>768

>769

ACTTATTTTTTTACTAAGGTTTTGTTTTGGAGACTTGTGTTGAAATAAAGTGATCCTCAT  
TCAGGATTTAGAAACAAAAGTTATACTCCACATGCTAGGGATTAGGAAGGCTAATGTGAAC  
GATCAAAAGTATGAATTATGGAATGCCTTTAGAATAATCAACTTTTAGGTAATTTGATACTGCT  
ATAATTTCAAGCTTAGAGAAAAGTTGTAAGAATTGGCATAAGGAACCTCTATATATCCTTTATCT  
AGATTTCACTAAATGTTTCAATTTTGCCATTTGTGTTTATTCTTTGTCTCATCTAGCCAGTCAG  
CCTAACACCACCAGGGATAAACCAGTAGTCTGAN

>770

ACCTCTCATTTGTCACCTTTTCAACACTTCTTGGCAGGCAGGCAGCATAACTGGTCCT  
GCTGGGTGATCCAGACCACACTCTGCAACTCTTTCTTCTGAGCCAGGCTCCCCTACTGTCTT  
TTCATTTATGTCAAGGCAGGGGAAGACCTCAAAGGGCTCTTGATCCCAGTCTCACTTCCCA  
GAGAGGCACGAGGCCCTCCAGGATGTGGGGACAGGAACCTTTGGGGCAAGCCGGGGCTGT  
CCAGAAGATCACCAGGAGGGCTAAATAGTAGAAAGGAGAGTCTTATTGGTGATATGTTTGCA  
AACTGGGAAAAGATAGCCTCCAGTGTGGAGCAAAGATGCTCCTTCTTCAAAGAGGGCAAGG  
GCAGCTTGGATTTTGTGCCTTACAGGGTCGGTATTATATAATAGAGTCATGCATATTGAGTAG  
GTTTGGGGGAAAAGCTATATATTTATGAGGGGAGGCCAACTACATGGGCAATGGATAAACA  
TACATGTAACACATCCCATGTTCACTTAGGGGCAGGATTTTAGCATTAAATGAGGTGGAATT  
TGGCTCTTACATCAAAGGTGAGCTATCAGACACAAAGGCAGTTTGTGCACAAGCTCTCCA

Table 4

AAGGGACTTGAGGGCTACAGCTGCTCATCTGGAAAGAATCCTTGTAAGACCAGTCCTCTGTC  
CAACCAGAGTTAGGAGGCATCTGACAATTTGCCTGATTAGCTGT

>771

ACAAATAAAGTATTCCAAGGGTTCAGAATAGAAAATGATTTCTTCCAGCTTGGGGAC  
ATTTGGGAAATTGGGATATCCTTTGGGGAAATGTAGTAATCAGTATATTCTGGGAAAACATAG  
TAGAGAATGAATAAATAAATTCCATTGAATTTGGAATATGTTGTCCATTCTCCCTGTAACATAAT  
GCTATCAAGATAAAGTAGAAATACCACATTTAGAAACAGCTGGAGTAGACAGGTCTTCATA  
GGCTAGCTTGGAAACCTAATAGCTATTAATAATGAAATTTAATTATACTCTGGATTCTAAACA  
ATGAACACACAGTGATCTTTTTGACTTGCTGCTTGTATAAGTTGGGGATGGTCTGAATTCA  
TTGTTGATTCAAAGAAAACGAATAGTGTAAAAACCTTTTATTACAGAGACTATAATTTGTC  
ACCTTCCTACCAACATATCTTAAATACACCAAGACCTTTTACAGAAGCTTAAACAAGGGTGTA  
CCTGCCCGGGCN

>772

>773

>774

>775

>776

NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNGGCTGCCGTGGAGAGGATGGATGGGA  
GGGGGAAGAACNAGAGCTTTGTTTAGAGGCTGTTGTAGTAATCCAGGTAAAGGCTTTAATC  
ATGTCCTGAACAATGATCAGCAATGGCAATGGAGATGACAGAACAGAAATTAAGAAGGAATA  
AAAAAGGCTTGCTGACTACTTGATGTGGGTGATGCTATCCTTTGACACAAAGGANNNNN

>777

NNNNCCGCGGCGGCTGCTGCTGCTGCACTGGGACAGGTGGCGGCGACCGGCGGC  
GTCCGAGGAGATTTAATCCAGAGACTGACTTCACTATAGAACCCACAGTTGTATCAATGGTT  
GGGGAAAGATAGTGGCAACAGGCAAAGGAGAAACAGCTCTGACATACAAAGAAAATGAGTA  
TGCTAAAGCCAAGTGGGCTTAAGGCCCCACCAAGATCCTGAAGCCTGGAAGCACAGCTCT  
GAAGACACCTACGGCTGTTGTAGCTCCAGTAGAAAAAACCATATCCAGTGAAAAAGCATCAA  
GCACTCCATCATCTGAGACTCAGGAGGAATTTGTGGATGACTTTTCGAGTTGGGGAGCGAGT  
TTGGGTGAATGGAAATAAGCCTGGATTTATCCAGTTTCTTGGAGAAACCCAGTTTGCACCG  
GCCAGTGGGCTGGAATTTGTTTAGATGAACCCATAGGCAAGAACGATGGTTCGGTGGCAGG  
AGTTTCGGTATTTCCAGTGTGAACCTTTAAGGGCATATTTACCCGACCTTCAAAGTTAACAAG  
GAAGGTGCAAGCAGAAGATGAAGCTAATGGCCTGCAGACAACGCCCGCTCCCGAGCTACT  
TCACCGCTGTGCACTTCTACGGCCAGCATGGTGTCTTCTCCCTCCCTCCACCCCTTCAAACAT  
CCCTCAGAAACCATCACAGCCAGCAGCAAAGGAACCTTCAGCTACGCCTCCGATCAGCAAC  
CTTACAAAACTGCCAGTGAATCTATCTCAACCTTTCAGAGGCTGGCTCAATCAAGAAAGG  
AGAAAGAGAGCTCAAAATCGGAGACAGAGTATTGGTTGGTGGCACTAAGGCTGGTGTAGTC  
CGGTTTCTTGGGGAGACCGACTTTGCCAAGGGGGAGTGGTGTGGCGTGGAGTTAGATGAG  
CCACTTGGGAAGAATGATGGCGCTGTTGCTGGAACAAGGTATTTTCAGTGTCAACCCAAATA  
TGGCTTGTTCGCTCCTGTCCACAAAGTTACCAAGATTGGCTTCCCTTCCACTACACCGCCA  
AAGCCAAGGCCAACGCAGTGAGGCGAGTGATGGCGACCACGTCCGCCAGCCTGAAGCGCA  
GCCCTTCTGCCTCTTCCCTCAGCTCCATGAGCTCAGTGGCCTCCTCTGTGAGCAGCAGGCC  
CAGTCGGACAGGACTATTGACTGAAACCTCCTCCCGTTACGCCAGGAAGATCTCCGGTACC  
ACTGCCCTCCAGGAGGCCCTGAAGGAGAAGCAGCAGCACATTGAGCAGCTGCTGGCGGAA  
CGGGATCTGGAGAGGGCGGAGGTGGCCAAGGCCACGAGCCACGTGGGGGAGATAGAGCA  
GGAGCTAGCTCTGGCCCGGACGGACATGACCAGCATGTCCTGGAATTGGAAGCCAAAATG  
GACCAGCTGCGAACAAATGGTGGAAGCTGCTGACAGGGGAGAAGGTGGAGCTTCTCAACCAG  
CTTGAAGAGGAGAAAAGGAAGGTTGAGGACCTTCAGTTCCGGGTTGAAGAAGAATCAATTAC  
CAAAGGTGATCTTGAGACGCAGACCAAACTGGAGCATGCCCGCATTAAAGGAGCTTGAACAG  
AGCCTGCTCTTTGAAAAGACCAAAGCTGACAACTCCAGAGGGAGTTAGAAGACACTAGGG  
TGGCTACAGTTTCAGAAAAGTCACGTATAATGGAACCTGGAGAAAGACCTAGCATTGAGAGTA  
CAGGAAGTAGCTGAGCTCCGAAGAAGGCTAGAGTCCAATAAGCCTGCTGGGGATGTGGACA  
TGTCATTTCCCTTTTGAAGAGATAAGCTCTTTGCAAGAAAAGTTAGAAGTACCCGTAAGT  
ACCACAGAGAGAAATAACTTCTGTAAGGAGCATTTTGGAGCCCGGGAAGAACTCATCAG  
AAGGAGATAAAGGCTCTGTATACCGCCACGGAAAAAGCTTTCCAAGAGAACGAGTCATTGAA  
AAGCAAGCTGGAGCATGCCAACAAAGAGAAGTCAAGTGTGATAGCTCTATGGAAGTCCAAAC  
TGGAGACTGCCATCGCATCCACACAGCAGGCGATGGAAGAAGTGAAGGTATCTTTAGCAA

Table 4

AGGGCTTGGAACAGAGACGGCAGAATTTGCTGAACTAAAAACACAAATAGAGAAAATGAGAC  
TAGATTACCAACACGAAATAGAAAATTTGCAGAATCAACAAGACTCTGAACGGGCTGCCCAT  
GCTAAAGAGATGGAAGCCTTGAGGGCTAAACTGATGAAAGTTATTAAGAAAAGGAAAACAG  
TCTGGAAGCCATCAGGTGCAAACTGGACAAAGCAGAAGACCAGCATCTCGTAGAAATGGAA  
GACACGTTAAACAAATTACAGGAAGCTGAAATAAAGGTAAAGGAGCTAGAGGTACTGCAAGC  
CAAAATGCAATGAACAAACCAAGGTTATTGATAATTTTACATCACAGCTCAAGGCTACTGAAGA  
AAAGCTCTTGGATCTTGATGCACCTTCGGAAGGCCAGTTCCGAAGGTAAATCGGAAATGAAGA  
AACTTAGACAGCAGCTTGAGGCAGCTGAGAAACAGATTAAACATTTAGAGATTGAAAAGAAT  
GCTGAAAGTAGCAAGGCTAGTAGCATTACCAGAGAGCTCCAGGGGAGAGAGCTAAAGCTTA  
CTAACCTTCAGGAAAATTTGAGTGAAGTCAGTCAAGTGAAAGAGACTTTGGAAAAAGAACTT  
CAGATTTTGAAGAAAAGTTTGCTGAAGCTTCAGAGGAGGCAGTCTCTGTTTCAGAGAAGTAT  
GCAAGAAACTGTAAATAAGTTACACCAAAGGAGGAACAGTTTAAACATGCTGTCTTCTGACTT  
GGAGAAGCTGAGAGAAAACCTTAGCAGATATGGAGGCCAAAATTTAGAGAGAAAGATGAGAGA  
GAAGAGCAGCTGATAAAGGCCAAAGGAAAAACTGGAAAATGACATTGCAGAAATAATGAAGAT  
GTCAGGAGATAACTCTTCTCAGCTGACAAAAATGAACGATGAATTACGTCTGAAAGAAAAGAG  
ATGTAGAAGAATTACAGCTAAAACTTACAAAGGCTAATGAAAATGCAAGTTTTCTGCAAAAA  
GTATTGAGGACATGACTGTCAAAGCTGAACAGAGCCAGCAAGAAGCAGCTAAAAAGCATGA  
GGAAGAAAAGAAAAGAAATTGGAGAGGAAATTGTGGACCTGGAAAAGAAAATGGAAACAAGC  
CACAACCAAGTGTGAGGAGCTGAAAGCCAGGTATGAGAGAGCCACTTCTGAGACAAAAACCA  
AGCATGAAGAAATCCTACAGAACCTCCAGAAGACGCTGCTGGACACAGAGGACAAGCTGAA  
GGGCGCACGGGAGGAGAACAGTGGCTTGTGTCAGGAGCTGGAGGAGCTGAGAAAAGCAAG  
CGCACAAAGCCAAAGCTGCTCAAACAGCGGAAGATGCCATGCAGATAATGGAACAGATGAC  
CAAAGAGAAGACTGAGACTCTGGCCTCCTTGGAGGACACCAAGCAAACAAATGCAAACTA  
CAGAATGAATTGGACACACTTAAAGAAAACAACCTTGAAAAATGTGGAAGAGCTGAACAAATC  
AAAAGAACTCCTGACTGTAGAGAATCAAAAAATGGAAGAATTTAGGAAAAGAAATAGAAACCT  
AAAGCAGGCAGCAGCTCAGAAGTCCCAGCAGCTTTCAGCGTTGCAAGAAGAGAACGTTAA  
CTTGCTGAGGAGCTGGGGAGAAAGCAGGACGAAGTCAACAGTCATCAAAAGCTGGAAGAA  
GAAAGATCTGTGCTCAATAATCAGTTGTTAGAAATGAAAAAAGAGAATCCAAGTTCATAAAA  
GACGCAGATGAAGAGAAAGCTTCCTTGACAGAAATCCATCAGTATACTAGTGCCTTACTCAC  
AGAAAAGGATGCCGAGCTGGAGAACTGAGAAATGAGGTACAGTGCTCAGGGGAGAAAAC  
GCCTCTGCCAAGTCTTGCAATTCAGTTGTTGAGACTCTAGAGTCTGATAAGGTGAAGCTCGA  
GCTCAAGGTAAAGAACTTGAGGCTTCAACTCAAAGAAAACAAGAGGCAGCTCAGCAGCTCCT  
CAGGTAATACAGACACTCAGGCAGACGAGGATGAAAGAGCCCAGGAGAGTCAGATTGATTT  
CCTAAATTCAGTAATAGTGGACCTTCAAAGGAAGAATCAAGACCTCAAGATGAAGGTGGAGA  
TGATGTCAGAAGCAGCCCTGAATGGGAACGGGGATGACCTAAACAATTTATGACAGTGATGAT  
CAGGAGAAACAGTCCAAGAAGAAACCTCGCCTCTTCTGTGACATTTGTGACTGCTTTGATCT  
CCACGACACAGAGGATTGTCCTACCCAGGCACAGATGTCAGAGGACCCTCCCCATTCCACA  
CACCATGGCAGTCGGGGTGAGGAACGCCATACTGTGAAATCTGTGAGATGTTTGGACACT  
GGGCCACCAACTGCAATGACGACGAAACCTTCTGATGAAGCCTCCAGTGGAGAACTGGGCT  
TGCTCAGACGCACTCGCATTGACACAACGTAACACCAGCATTGTGTGTGCAGACTTCAGGA  
GAACTCATGTTATTTTTTAACCCCGTCAACAAATCTAGGAAAATATTTTGATCTTCAACAAAT  
GCCCTTTAGTCTCCCGTATGAGTTAGAATAAATAATTTAGTAGGTGAGTTTTACCTCGA  
ATTTTGTCTTCTGATTTTTACGTTTGAAGACATTGCACCAGATGCCATTACATTTATTGGCCC  
CCCGACCTTGTAGAAAAACCCCTACCCTACAATACCTTATTTAAGTAACCTTTAAATTATGCC  
GTTACTTTTCATATTTGCACTAAGATATTTCCAGGCTGCATTTGTATATTTAGATTTTTGGTTA  
AGCTTTGACACTGGAATGAGTTGAAAAAATGTGCCATTTTGCATTTTCATCTACTCATTTAAAG  
TATTTTATTCTTATTCAAAGAAATATCTGAGCTCTTGCACACTACCTGTTATCAGTAGTGCTTT  
ACTTCAGGCTTGATAATACTTAGGTGTGATTATAAAATCATGAAGCAGGTAAAGGGAGGGGC  
AAGCCCCCAAACCTGCTGTGGGGACATTTTATAATCTATATGCTGCACCCACTTAATCTACTGT  
GGTGTTTTGTATTTAGTTTTGCATAATTTAGCTTCTATATATTGTATGTATATTTTTTAAA  
AATCTATATTTTGGGAAAAAACATACACAATGTGTCTTTCTTTTGGACATTTACCTTTTGA  
AAAAGAAAACACTTAAATGATCATTAGGACATAACAGACTAGGCCAGACATAGCATCTGTG  
GCTTGGCAACCATTTTCATTTGTTTGTCTTCTTTTATTCTTACCAGATTTAAATAACTGGAG  
GAATTTTCTCCAATTTTTTTTCTTCTCTGGCAGGTATCCCCAGCAGTCAATTAACAATAAGC  
CAGTATAAAACACCTAAATAACCAATCTACAATCTCCCTTCACAAGTTTTTTTACTGTTTTTAG  
ATGAATGTACGATGAGAAATCAACGTTAATAATTTTGGATTTTCTTATCACAAAAAGAAAAT

Table 4

GAAGGACCTCAAAGCACCTGAACAGTTTATCGACCAGTTTGAATCTATTTATCTTCATTTGAA  
TGTCTTCTAGAATATGTAAAAAGTCATAAAATGTATCTTCCATGCTACATGTACAATAAGAACT  
TCTATAATTGTATATATGCCTTTGATGTATTTTCCCCTCAAGATTATCAACTGTGTGTTGACA  
GTGAATATTCAATCTGGTACCAGTTGAAATTTTTGGTTATAAATGTAATACGAATTGTTTCACA  
AACAGAAAACATGTAAAGCAGTATTAATTTTGCCAAACAAGTGTCTGTATCTACTTTAATA  
AATGGTTATTCTTTTAAATGAAAAAGGAATTAGAGGAATATTGCGGCCGCAAGCTTATTCCAA  
ATAGGTAAAATCATTAAAAAAATATTTAATTGTAAAAAATATTTTTTTTTTGGGGGGGCCTCTC  
AANNNNNNNNNNNNNNNNNNNNNN

&gt;778

AGTCTTTATCTGTTAGAGATATACATTGAAGTATTTAAAGGTGAATGATATGTTTGGG  
ATTTACTTTAAAAATAATTTTCAGCCCCCGCCAAAAGAGTAAGGTGTTGGGGAGGGGAAGTATA  
AGTAAAAATAAGAATGGTGGACTATTGATAATTATTGAAGTTAGGCGGGAATACACACAGGAA  
CTCATGATACTATTCTTACTATTTTTTGGTATGTTAAAAAATTTCTTAATAAGGAGTTTTTATT  
AATACCAGTTCTTCACATAGTCTCCAAAAAATAGAAGAGGAGGGAATACTTCCCAGCTTCT  
TCTGTGAAGCTAGTATTATCCTGATAACCAGCACCAAGACATGACTGCTTACTGCAACTCG  
CTCCGGCCGCTGGGCGTAGCTGCGACTCGGCGGAGTCCCAGCGGCGCGCTCCTTGTTCTAA  
CCCGCGCGCCATGACCGTCGCGCGGCCGAGCGTGCCCGCGGCGCTGCCCTCCTCGGG  
GAGCTGCCCCGGCTGCTGCTGCTGGTGCTGTTGTGCCTGCCGGCCGTGTGGGGTGAAGTGT  
GGCCTTCCCCCAGATGTACCTAATGCCAGCCAGCTTTGGAAGGCCGTACAAGTTTTCCCG  
AGGATACTGTAATAACGTACAAATGTGAAGAAAGCTTTGTGAATTCCTGGCGAGAAGGACTC  
AGTGATCTGCCTTAAGGGCAGTCAATGGTCAGATATTGACACGAGTTCTGCAATCGTAGCTG  
CGAGGTGCCAACAAAGGCTAAATTCTGCATCCCTCAAACAGCCTTATATCACTCAGAATTATTT  
TCCAGTCGGTACTGTTGTGGAATATGAGTGCCGTCCAGGTTACAGAAGAGAACCTTCTCTAT  
CACCAAACTAAGTTCCTTCCAGAAATCAAATGGTCCACAGCAGTCGAATCTCGTCCACACA  
CCGCACAATCATGCCCTAATCCGGCGAGAAATACGAAATGGTCAGCATCGCATGTACCAGG  
TGCCATATTCATCCGGTGCAACATCTCCTTCTCATGTAACACAGGGTACAAATTATTTGGCTC  
GACTTCTAGTCAACGTCTTACTTCCAGGCAGCTACTGTCCAAGTGGAGCTGACACGTTGCC  
AGAGTGCAGAAAACTTCAATTGTCCAAGAAACAGCACAACTCGACCATCCGAATAATCCACG  
GCGAACGTGCACACATGGCTTTCGACTACCTTGTAAAGCTATGTCCGTCCCAAACAGGGCTT  
CACCCCGGACTGCGGACACCCACCCTCTCTCGTGACCCGTACCATACGCTTCAACACATCG  
TTACACTGCCACCCCTCTATAGCAGCCGCCACCCCCACAACCCGGCGTGCACCCCTAGTCC  
CAAGCACCAACCAATTTCTCCACAACACTCCCCCTTTCCGTACACACTACAAAACCCACC  
CCACCAATGCTCAGCCAAACACGGAGTACACCTGTTCCAGGACAACCAAGCATTTTCATGA  
AACAACCCCAAATAAAGGAAGTGAACCACTTCAGGTACTACCCGTCTTCTATCTGGGTTCT  
CGTCCCTGTCAACCCAGGCTGGTATGCGGTGGGTGTGATCGTAGCTCACTGCAGTCTCGAA  
CTCCTGGGTTCAAGCGATCCTTCCACTTCAGCCTCCCAAGTAGCTGGTACTACAGGTGTGTC  
CCACGACACCCGGCTAAGTTTTTGAATTTATTTTTGTAGAGACAGGATTTTCTATGTTGC  
CCAGGCTGGTTTCAAACCTCTGGCCGTAAGCGATTTTTCCGGCCTCCCAAACGTTGCGATT  
ATAAGTGTGAGCCACTGCACCTGGCCCCACATTTTCTTATCCATTTGTACATTGATGGACAC  
TTAAGATGATTCCATATCTTTGCTATTGTGAATAGTGCTTCAATAAATATGTGAATGCANNNNN  
NNNNNNNNNN

&gt;779

GGGGGTTTTACCATGTTGGCCAGGCTGGTCTTGAACCTTTGACCTCAGGTGATCCG  
CCTGCCTCCCAAAGTGCTGGGACTACAGGCGTGAGCCACCATGCATGGCCATTGATTTCTT  
AATTATAAAGATACATTAGATAATTCATTGCTCTTTATCATTCACTTTTCGGTTTAAAGCACAGTA  
AGTGGATCTGAAAATAATTTCAAGTATATATAAATTATATATCATTATCACATAAAGTTGATGAA  
ATAGTATATAAATGTTTGTATGCTCTAAGACTAACTTTTAGATTTTCTTTTATTCTCTCAATG  
GTGTGCAAAGTATAAATCAAAGCCATTCTGTGAAAAACTGCTTTCCTGGGTGAAAAGCAGTG  
GCTGTGCCAGAGTCATTGTTCTTTCAAGCAGTCATTATATCAGCGTAATGATCTGCAGCTTC  
GTAGGTATGTTTCTGCCTCTGGAAGTTATTTTTGGTATGTTTATACTATGATAATTTCTCTA  
TTAAAAAGTTAACTTTAAAGCCACGTAGATCCTTACCTCTTCTTACTGGAGTTTAGAAAGA  
GGGGGGTAAGANN

&gt;780

CACGCGTCCGGTCGACGCCTCCTCATGCGTCCGCGTCCCGGGCTCACCGCCGCTG  
CCGCTCGCCGAGGGGGCCGCGCGCCAGCAGCCGCCGCGCCGCGCCGCGCCGCGCCG  
GGGAATTGGCGGCGGGGCCCGGGCCGCTCGAGCTAGGGTGACAGGCCCGGCCTCTAG

Table 4

GGGAGGCCCGAGCCGGCGGGCGCCCCGGCCCCGCGTCTAGTTGTTTCATGAAGCATGTCCG  
GCCACCAGCGTGGACACCCAGAGAACAAAAGGACAAGATAATAAAGTACAAAATGGTTCGTT  
ACATCAGAAGGATACAGTTCATGACAATGACTTTGAGCCCTACCTTACTGGACAGTCAAATC  
AGAGTAACAGTTACCCCTCAATGAGCGACCCCTACCTGTCCAGCTATTACCCGCCGTCCATT  
GGATTTCTTACTCCCTCAATGAGGCTCCGTGGTCTACTGCAGGGGACCCCTCCGATTCCATA  
CCTCACCACCTACGGACAGCTCAGTAACGGAGACCATCATTTTATGCACGATGCTGTTTTTG  
GGCAGCCTGGGGCCTGGGGAACAACATCTATCAGCACAGGTTCAATTTTTTCCCTGAAAA  
CCCTGCGTTCTCAGCATGGGGGACAAGTGGGTCTCAAGGTCAGCAGACCCAGAGCTCCGC  
GTATGGGAGCAGCTACACCTACCCCCGAGCTCCCTGGGTGGCACGGTGGTTGATGGGCA  
GCCAGGCTTTCACAGCGACACCCTCAGCAAGGCCCCCTCCACCCATAAAGCATAACATGGA  
CATTGGCACCTGGGATAACAAGGGGCTGTGCCGAAGGCCCCAGTCCCCCAGCAGGCACC  
CTCTCCACAGGCTGCCCCACAGCCCCAGCAGGTGGCTCAGCCTCTCCCAGCACAGCCCCC  
AGCTTTGGCTCAACCGCAGTATCAGAGCCCTCAGCAGCCACCCAGACCCGCTGGGTGGCC  
CCACGCAACAGAAACGCGGCGTTTGGGCAGAGCGGAGGGGCTGGCAGCGATAGCAACTCT  
CCTGAAAACGTCCAGCCTAATTCTGCCCCAGCGTCCAATCCACCCCGTCTTGAAAAACT  
GAAGGCTGCTCACAGCTACAACCCGAAAGAGTTTGAGTGGAATCTGAAAAGCGGGCGTGTG  
TTCATCATCAAGAGCTACTCTGAGGACGACATCCACCGCTCCATTAAGTACTCCATCTGGT  
TAGCACAGAGCAGCGCAACAAGCGCCTGGACAGCGCCTTCCGCTGCATGAGCAGCAAGGG  
GCCGCTCTACCTGCTCTTCAGCGTCAATGGGAGTGGGCATTTTTGTGGGGTGGCCGAGATG  
AAGTCCCCCGTGGACTACGGCACCAAGTGGCGGGGTCTGGTCTCAGGACAAGTGAAGGGG  
AAGTTTGATGTCCAGTGGATTTTTGTTAAGGATGTACCCAATAACCAGCTCCGGCACATCAG  
GCTGGAGAATAACGACAACAACCGGTCACAACTCCCGGGACACCCAGGAGGTGCCCTTA  
GAAAAAGCCAAGCAAGTGCTGAAAATTATCAGTTTCTACAAGCACACAACCTCCATCTTGA  
CGACTTTGCTCACTACGAGAAGCGCCAGGAGGAGGAGGAGGTGGTGGCAAGGAACGGCA  
GAGTCGAAACAAACAATGAGGGCGAACCAGTTTCTTACATGTTCTAACGTTTGACTTTGAAAA  
CAGTTTAAACACGTGTGCTTGGTCAGCTCCAGTGTGTGCTCCCGTGGCGGGGTGAGTGT  
TGCATCTTTGCCCTTCTGTGCTGATTTTTGCCAGATGGATCTGCATTTATTTGACTTTTT  
CTATGTATTATAATCCTGTAGAAGTCACTAATAAAGGAGTATTTTTTTGTGAGCTTATCAATC  
AGACTGATCTAATGTGAAATGTAAGTATCCTTAAAAACAAAGCATCTATTTTGGCAGAAATTG  
TGTTCTTAAATTGATCATTGATATTCTGTGAGACTTCATATTTCTCATCCCTTTATTGCTTTT  
TAGCAAAACATAAGAAACCATGAGTCATTTTGTGATTTAGAGTATTCTGATAAAATCTCTTGAA  
ATACTGAAATCAAAGGTTAATGATTTTTTGTTCATTCTGATTTGTGATTTTATTATCTGTTATC  
GGTCTAAAGTGCTAATTTACCCATTTGATTTTTCTGCTAGACAGATAACTTTTAAATTTTCAA  
TTTGGCAGACACTTTTTTTTTTTTTTGAATCTTCTCCAGATCTGTTGCCCACTGAACA  
GCCACCCGTCCCTCACTGTCTGCTGGTGTCCGATTGGGCTGGATGGTGTGGGGCATGATGTG  
TGGAGGAACTGGAAGGTGCTTTAGGTCTGGTTCAGGGTCGGGCATTCTTTGTTGTTTGCACA  
TCTTTTTAAATTTTACACCTTTCTTAAAGATTTAATGCCGTCTTAAGTTTTTATACCAATAAT  
GCTGAGCTTTAAGTGTAGGATCTGGTAGTACAGACAGTGTGATGGATGATGCTGCTGGTTGT  
AAATTTTCATCGTGTGTGTCTAATTTTTTTTCTGTTGAATGGGTAAAAACAAAACAACTTTT  
TTTGAAGATGAATTTGCTGTGATTTTTGTGGAATGAGGGACCGTTGAGCTCACTACCACC  
TGGAGTTTGAGTTGAAGCATGAAAATGGTGCCCATGCCTGACGCTCCAGCGCCTGGATCTG  
CACGTGCCCTGTAGAGGATCCTTACCGTCTAGAGAGCAGACGCTTTCTGAAAACCTACTTG  
CTCCAAAAGACCCTCTGAGTTAACGTTTCAGCTGTATCATTAGACTTGATTTTAGAGCGTGTG  
ACTTCTCTGAACTGTTACTGCCTGAATGGAGTCTGGACGACATTGGGTTTTTCTCTAGG  
AGAATACAAGCCTTAATAAACAATACTATTTAGCAAAAAAAAAAAAACTCGGCCGATTTTG  
CCAGGGGGGGCCCGGTACCCAATTGCCCCTATAGTGAGTCGATTACAATTCAGTGGCCGT  
CGTTTTACAACGTCGTGACNNNN

&gt;781

acgcGtccGGTGCGAAAGCCCCGGAAGTCTGTTGAGTGTGAACGCCGCGGACTCCGGA  
GCCGCACAAACCAGGGCTCGCCATGAAGCCAGGATTCAGTCCCCGTGGGGGTGGCTTTGG  
CGGCCGAGGGGGGCTTTGGTGACCGTGGTGGTCTGGAGGCCGAGGGGGCTTTGGCGGGG  
GCCGAGGTGAGGCGGAGGCTTTAGAGGTCTGGACGAGGAGGAGGTGGAGGCGGCGGC  
GGCGTGGAGGAGgaGGAAGAATGTGAGTGGAGCCGATCGGCATGAGGGTGTCTTAT  
TTGTCGAGGAAGGAAGATGCACTGGTCACCAAGAACCTGGTCCCTGGGGAATCAGTTTAT  
GGAGAGAAGAGAGTCTCGATTTGGAAGGAGATGACAAAATTGAGTACCGAGCCTGGAACC  
CCTTCCGCTCCAAGCTAGCAGCAGCAATCCTGGGTGGTGTGGACCAGATCCACATCAAACC



Table 4

GGGGGCTAAGGTTCTCTACCTCGGGGCTGTCTCGGGCACCACGGTCTCCCATGTCTCTGAC  
ATCGTTGGTCCGGATGGTCTAGTCTATGCAGTCGAGTTCTCCACCGCTCTGGCCGTGACC  
TCATTAACCTTGCCAAGAAGAGGACCAACATCATTCTGTGATCGAGGATGCTCGACACCCA  
CACAAATACCGCATGCTCATCGCAATGGTGGATGTGATCTTTGCTGATGTGGCCCAGCCAGA  
CCAGACCCGGATTGTGGCCCTGAATGCCACACCTTCTGCGTAATGGAGGACACTTTGTG  
ATTTCCATTAAGGCCAACTGCATTGACTCCACAGCCTCAGCCGAGGCCGTGTTTGCCTCCGA  
AGTGAAAAAGATGCAACAGGAGAACATGAAGCCGCAGGAGCAGTTGACCCTTGAGCCATAT  
GAAAGAGACCATGCCGTGGTCTGTTGGGAGTGTACAGGCCACCCCCCAAGGTGAAGAACTGA  
AGTTCAGCGCTGTCAGGATTGCGAGAGATGTGTGTTGATACTGctgtggttgaaatgtccctccaacactc  
atgttgagacttaatccclaatgtggcaataactgaaaggtggggccctTTGAGATGTGATTGGATCGTAAGGCTGTGC  
CTTCATTTCATGGGTTAATGGATTAATGGGTTATCACAGGAATGGGACTGGTGGCTTTATAAG  
AAGAGGAAAAGAGAACTGAGCTAGCATGCCAGCCACAGAGAGCCTCCACTAGAGTGATG  
CTAAGTGGAATGTGAGGTGCAGCTGCCACAGAGGGCCCCCACCAGGGAATGTCTAGTGT  
CTAGTGGATCCAGGCCACAGGAAAGAGTGCCTTGTGGAGCGCTGGGAGCAGGACCTGACC  
ACCACCAGGACCCAGAACTGTGGAGTCAGTGGCAGCATGCAGCGCCCCCTTGGGAAAGC  
TTTAGGCACCAGCCTGCAACCCATTGAGCAGGCCACGTAGGCTGCACCCAGCAAAGCCACA  
GGCACGGGGCTACCTGAGGCCTTGGGGGCCCAATCCCTGCTCCAGTGTGTCCGTGAGGCA  
GCACACGAAGTCAAAAGAGATTATTCTCTTCCCACAGATACCTTTTCTCTCCCATGACCctttaA  
CAGCATCTGCTTCATTCCCCTCACCTTCCCAGGCTGATCTGAGGTAAActttGaagaaaaTAAAG  
CTgtgttgagca

&gt;782

NNACAGAGAGTGGTACATGAATGACTAGTTTTCTAAGATGTCCTTTTTATTGTGAATA  
AAATATAAAAGTTAAAGGCCCTCTGCTAAGTCACATAAAGTACAGCATATAAGTTCATATAGG  
TACAAATAAATGAGTTTGCAGTGAATTGGGCCCTTCAAATTACCTCAAGTGACAGATAGTAAGA  
AAAGCTTCTTGAGCAGGTGGAGGTCACTGAATCCCCTACTATGCACTTATCAAGATTTACTT  
ACTTTAATTTTACTGGAAATTGATTTTTTAAAAAATGACTACACTGTAACAAGGGAAGGGATCT  
GGGTTTTTTTGTGTTTTTATTCTTGTTTTTTTTAAAGTAGTTCAAATTCTGAAACTGTGATTTAAA  
AATTTTTTACAGTCAAGCATTCTGATTTTTGAACATAACTCCCTTCCCTTTCTGTGTAACAAAGG  
TCTCTCTGTTATCTCTTAAATTTTGTACATCTCCCTCAGCCTCTTTCTTTGTCCGTCTCCCTT  
CTGTCAATTGTCTATGGATGTTTACCTCTCTGTTCTCCTAAAAGTTTGAAGATTAGGTCAACTCT  
TATTTCTAGTTTCAATTGTAATTTAATCTTAATTTTTTTTTCTGATTTTTGTTGGTTGTATAATCT  
GCTGACGTATTTTTTATACTCAAGTGATGTTTTCTATTAAAAAGAAAAGTGGTTGGATTAAAAAT  
AGTAAGCTATGTAACCCTCATGTTACTTTCACTTTCAAATATTGGGTACCTAAAACATTACTTC  
AGAGATTATGTAATCCTATTATAGTATGTTTGTCTTCTTTATTGTTGGATTTTACATTCTGATT  
TGGCTTTTCTCCAAAAAATGTATATCATGAAAGACTAGACAGTTATTTGCAAGTGTTAGAAA  
GGTGTTAAAAATGTAAGCAAAGAGTCTTAACTTTCTCCTAATTGGGAGAAAAATGCTTTAAC  
ATTACTATAAATAATTTCCAGGTTTGGAGGGGGTCTCCAGGCCCATATTTGCTGTTAATAGT  
TGGACCTTTTAGACCATGTGTTATTTGCAATCCCAGAATGATTGCTTCTGCTATTAGTTAAAAA  
GATACTATTCTTTTCTTTCTGTACAAGTGCAATACTCCCTTGAAGTCTTAAAACTATGGTGA  
TTTTTTTTCTTTTCTGACCTATTCTTCTTTAGCTAATGACAAAAAGAACTCATAAAAGTCAT  
AGTATGTTAAAGGACACAACAAGCAAAGAGAGTCTTAACTTTCTCCTAATTGGGAGAAAAATGAGAAT  
GTGGAACCACTAGTCTGATCTCATGGTATCTTTATTTAAGCTAAATTTCCATGGAAATTAGTA  
ATCTTTTGTGTTGAAAAATGTGTCTAAAGTTGAACTTTTTACAGATTGAATCTTCTTAGACCCT  
CGCCCAATGCTCTAAATTAAGAACCTAATACTTAATTTTTTATTTTACTTCTCCCTTTTAGAA  
ATAAACTTTTAAATAAAAGCAAAGCACTTAGCTGAGTTTTAAACACTTACATATCACCTATTGG  
AGAAATTTTTTTAAAAATATTTGGAGCAGTCTGTTTTCATACAAATTTAAGTAAGAGGTATT  
TTTCTTATACATATTTATATGATGTGTGCTAATTTTCTTTTTTATACCTGTGTCCCTGTAGTAA  
AACTGCTGTAATATAAATACATGTTTTGTTAAAAGATAACATTTCTTTGGCATTCTTTTTAAAG  
GCAGTTACTGCATTTCTGCATTTGTACAGTATGTGTCTTGGCCATTTTAGATATTCTTTCTTTA  
ACAATACCAAAGGTAATTAGACTATTTTAAAGACTAATTGCTTGACAGTTTCTAGGGTATTTTG  
TGTTTTAGAANNNNNNNNNNNNNNNNN

&gt;783

ATTATTTTATATGTTATGTATATATTTAGGAGACAAATGAACATTTGTCTGTATCTGAA  
TCAACTGTACCACCCAAAAAGTGTGTGCCACACTGCATTGGCCTGGGACATAAACTGGAAG  
CTAAACCTAGTATATTTTCTTACATCCTCTGGGTACCAGGAGTCATGTTTGACAGCTTCTCT  
GCTTTTCTGACGCATGGCTTCTTTTGTTCACAATTTTCTTACTGTAAGTCTTTCAGAGGTGG

Table 4

TGAGGCTTGAGATTGCTGTTGATAGACAAGTTTTCAAGATCTATTTTCCCTTCATTCTAGGCT  
GGGGTGTCTAGAAAAGTTTACCAATTTACTAGAGTGGACACTGGAGTACACTAGACCAGTTA  
GTACTCTTCACTGTCTTTGCCATGAACTTTATAACATGGCTCTCCAGGTGTTGAATCTGGTG  
CCCTGTCACCCTGTGCTCAGGGAACACATGGCGGCAATCAGCATGTGAGGCGCAGAGGGA  
GGGCAAGCTCCCCTTGTGATATTTGAGGTATCAGCTGACTCAAGTCTCTCTCCCTTCTCTCC  
TTATTCTCATGCTACCTCTCCCAACCATTGTCTTAACTTCCCTGGCCAGGATGCCTGCCATAT  
TAGATGGAGAGGAGGCAGTTTCTAAATGGCTTGACTTTGGTGAAGTCTCAACTCAAGAAGCT  
CTGAAATTAATCCACCCAACAGAGAACATTACCTTCCANN

&gt;784

&gt;785

ACAAGAGGATATGTGTGCATTACATGCAACCACTACACCATTTAATATCTGGGGTGT  
GAGTATCCGTGGGTTTTGGGTATCCGTGGGGTCTGGAACCAATTTCTCCTGGATACTGA  
GGGATGACTGGATTACTGTGTGTTGTGTGCTTGTTTTAAGCTTCAAAAGATTATGTGATCT  
AGGAGTTGTTAGATTTTATTATTGGTCTTAAAGATAAGCTTAGATGTGTTACTTTTTGGAGT  
TTTAGTTTACAGTGATTCATGAATCGGGCAGCTTCAGACCACAGGAGACATGAAGCAGGTAG  
AAGTTTAAGAAAGCTTGACAAGCAAAATATTTGATTTGGN

&gt;786

ACTAAACTAAACTGAGCAGTTTAAACATTCATTTAAAGGGATATCTAATGTGTTTA  
TTATTAACATAAATAATGTTTTATGAAAAATGTAACCTTAGTTTTCCAAAACAAAATGTTTAGG  
GCAAGAGTAACATTATTTTACATTATTGCATCTCAGTGAAAAATAAATGGCAACAAAATCTTA  
TATCTGCTTCTGCAGTTAATTCTGTTTCTTTTGGTTGAAATATATGAAGGAAATCTGTC  
CTCACACAGTTGTGTAGTGGAAGGGGGGACTATTGTAACAGGCTGTGCACATAATTGTGG  
ATGATTTTCTTTGATACAACAACAACTTN

&gt;787

NNNCGTCTCGGTTCTTTGAATCGATGGCTCACTCCCAGCCACTCTTGACTGACTGCC  
AGCTTAGCAGGGCGTAGCTTACCAACAAATCTTTTTTTTTTTTAAAGCCAGACTGATTCATA  
GAAACTCCTTTACACTCTCCAGCCTCTCACCGCAAAATTACACACCCCACTACACCAGCAGA  
GGAAACTTATAACCTCGGGAGGCAGGTCCTTCCCCTCAGTGCGGTACATACTTCCAGAAG  
AGCGGACCAGGGCTGCTGCCAGCACCTGCCACTCAGAGCGCCTCTGTGCTGGGACCCTT  
CAGAACTCTCTTTGCTCACAAGTTACCAAAAAAAAAAGAGCCAACATGTTGGTATTGCTGGCT  
GGTATCTTTGTGGTCCACATCGCTACTGTTATTATGCTATTTGTTAGCACCATTGCCAATGTC  
TGGTTGGTTTTCCAATACGGTAGATGCATCAGTAGGTCCTTTGGAAAACTGTACCAACATTAG  
CTGCAGTGACAGCCTGTCATATGCCAGTGAAGATGCCCTCAAGACAGTGCAGGCTTCATG  
ATTCTCTCTATCATCTTCTGTGTCATTGCCCTCCTGGTCTTCGTGTTCCAGCTCTTACCATTG  
GAGAAGGGGAAACCGGTTCTTCTCTCAGGGGCCACCACACTGGTGTGCTGGCTGTGCATTC  
TTGTGGGGGTGTCCATCTACACTAGTCATTATGCGAATCGTGATGGAACGCAGTATCACCAC  
GGCTATTCTACATCCTGGGCTGGATCTGCTTCTGCTTCAGCTTCATCATCGGCTTCTCTA  
TCTGGTCTGAGAAAGAAATAAGGCCGGACGAGTTCATGGGGATCTGGGGGGTGGGGAGG  
AGGAAGCCGTTGAATCTGGGAGGGAAAGTGGAGGTTGCTGTACAGGAAAAACCGAGATAGG  
GGAGGGGGGAGGGGGAAGCAAGGGGGGAGGTCAAATCCCAACCACTTACTGAGGGGATT  
CTCTACTGCCAAGCCCCTGCCCTGGGGAGAAAGTAGTTGGCTAGTACTTTGATGCTCCCTTG  
ATGGGGTCCAGAGAGCCTCCCTGCAGCCACCAGACTTGGCCTCCAGCTGTTCTTAGTGACA  
CACACTGTCTGGGGCCCCATCAGCTGCCACAACACCAGCCCCACTTCTGGGTCTGCACTG  
AGGTCCACAGACCTACTGCACTGAGTTAAATAGCGGTACAAGTTCTGGCAAGAGCAGATAC  
TGTCTTTGTGCTGAATACGCTAAGCCTGGAAGCCATCCTGCCCTTCTGACCCAAAGCAAAAC  
ATCACATTCCAGTCTGAAGTGCCTACTGGGGGGCTTTGGCCTGTGAGCCATTGTCCCTCTTT  
GGAACAGATATTTAGCTCTGTGGAATTCAGTGACAAAATGGGAGGAGGAAAGAGAGTTTGTA  
AGGTCATGCTGGTGGGTTAGCTAAACCAAGAAGGAGACCTTTTACAATGGAAAACCTGGG  
GGATGGTCAGAGCCCAGTCGAGACCTCACACACGGCTGTCCCTCATGGAGACCTCATGCCA  
TGGTCTTTGCTAGGCCTCTTGCTGAAAGCCAAGGCAGCTCTTCTGGAGTTTCTCTAAAGTCA  
CTAGTGAACAATTCGGTGGTAAAAGTACCACACAACTATGGGATCCAAGGGGCAGTCTTGC  
AACAGTGCCATTGTAGGGTTATGTTTTAGGATTCCTTCAATGCAGTCAGTGTTCTTTTAA  
GTATAACAACAGGAGAGAGATGGACATGGCTCATTGTAGCACAACTCTATTACTTCTCTCTAA  
CATTTTTGAGGAAGTTTTGTCTAATTATCAATATTGAGGATCAGGGCTCCTAGGCTCAGTGGT  
AGCTCTGGCTTAGACACCACCTGGAGTGATCACCTCTTGGGGACCCTGCCTATCCCACTTCA  
CAGGTGAGGCATGGCAATTCTGGAAGCTGATTAAACACACATAAACCAAAACCAACAACA

Table 4

GGCCCTTGGGTGAAAGGTGCTATATAATTGTGAAGTATTAAGCCTACCGTATTTTCAGCCATG  
ATAAGAACAGAGTGCCTGCATTCCAGGAAAATACGAAAATCCCATGAGATAAATAAAAAATAT  
AGGTGATGGGCAGATCTTTTCTTAAAAATAAAAAAGCAAAACTCTTGTGGTACCTAGTCAGA  
TGGTAGACGAGCTGTCTGCTGCCGCAGGAGCACCTCTATACAGGACTTAGAAGTAGTATGTT  
ATTCCTGGTTAAGCAGGCATTGCTTTGCCCTGGAGCAGCTATTTTAAGCCATCTCAGATTCT  
GTCTAAAGGGGTTTTTGGGAAGACGTTTTCTTTATCGCCCTGAGAAGATCTACCCAGGGA  
GAATCTGAGACATCTTGCCTACTTTTTCTTTATTAGCTTTCTCCTCATCCATTTCTTTTATACCTT  
TCCTTTTTGGGGAGTTGTTATGCCATGATTTTTGGTATTTATGTAAAAGGATTATTACTAATTC  
TATTTCTCTATGTTTATTCTAGTTAAGGAAATGTTGAGGGCAAGCCACCAAATTACCTAGGCT  
GAGGTTAGAGAGATTGGCCAGCAAAACTGTGGGAAGATGAACCTTTGTCATTATGATTTTCAT  
TATCACATGATTATAGAAGGCTGTCTTAGTGCAAAAAACATACTTACATTTTCAGACATATCCAA  
AGGGAATACTCACATTTTGTAAAGAAGTTGAACATGACTGGAGTAAACCATGTATTCCCTTA  
TCTTTTACTTTTTTCTGTGACATTTATGTCTCATGTAATTTGCATTACTCTGGTGGATTGTTCT  
AGTACTGTATTGGGCTTCTCGTTAATAGATTATTTATATACTATAATTGTAAATATTTTGATA  
CAATGTTTATAACTCTAGGGATATAAAAAACAGATTCTGATTCCCTTGAATGTGTGAATGTTTT  
TTTCTAAAAAAATGTGGAGAAATATGGATAAATTGACATTTATCCCTCATTAAGCTGCCTAT  
CAGTTTGATTTGGACAACCTTGACATTTTATTGAGACATTAAGCTACTTTCTGGTAATATATTAG  
GCATTTCTGCAATAGCTCTTTCAGGTAACCTGAATATTATTAAGCATAGTTTTATCTTGCTTTGA  
TTAAACCTCTTAGGCAAAAAATGGAACCTCATAAGCTAATACATTAGAAAGGGGTTATGATTA  
TAAATCAGAAATGCTTGTGACATTAAGAAATGAGGCACCTGTGAAATTTCTTTGAAATAGCCA  
GCTCCTCTAATGTGTCTTCAAAATATAAAGTGATTACAAAGGCATGCATCACACCTATTTGT  
AGCAGCCCATTTCATTACATAAACCAGGGCATACTGTGTGGGCTCTGTGAGTGAAGGGGAGG  
CTTCACTACTTTCTGTGAGCAGTAAGGACTGGTATCTTTCTGTGAGCAATAAGGACTGGATAA  
AGACTGCATATCCTTGTGTCTGTGTCAGCACCAATACAATAAGGAGGGTTTTAATGTGAAGCA  
GGCAATCTTCCAGCCCCCTTCTGGTCTTGGATGAAATAGTTGCACAGAGTATTGCACCAAAAA  
TACACAATGGAGGCTGAAAAGTTCAACATATTTTAAGTCAATTAATCAAATTGCATTGATTCTT  
GATGCTTTCTTAGAGGCCTACATGATTTCTTAGATTGCTCTGATAAACTATCATAAGGGGTCC  
ACCTCCCCTCATTTAGCTCCCCAGGGATTTCTTTCCCCCATGTCATACACCCAGTCCTAA  
TCAACCCCCAAGGCTATCCTTCCATCCCTTCTGCAGAGGGAACTTTTGTCAGACTCTGCAAC  
AACTCCTAGCTCTATCCAGAGTGTCTCTGCTGCTAAGATTGGTATCTTTCTCCTCAAAAGC  
CTGGATGGTGAATGGGGGTGCATTAGTCAGAATTCTCCAGAGAAACAGAAAAATAAGATT  
CGGTGTGTGTGCAACATATATATAAATAAATAAAAAATATATTTATTNNNNNNNNNNNN

&gt;788

&gt;789

ACTTTAATTTCTTTATAATTTGTTTCAGCTATTTAAAAAGATAATCCACAATCTCCTACC  
GCCATTAGAGCACAGGAAAAAAATTCAAAAATAAAGGAAAAACATGGCTCATATATCTACA  
GAAGTCACAAAAATACTATAGGGCACATATACCCAGGCCTCAGCGGTGGGAAGAAAAACATAC  
AACCACCGGGCAAAATGTTTGAACACTGAAGACGGGAATTTTTTAGGGCCATNTCAAGACCA  
TGTTGAAGGTAACCTGGGAAAGTCTGGATAGAAATAGANNNNN

&gt;790

NNNAAATTTTAATTGTTAAAATAACAACTTTGCAGTGACAGAGTCTCTTTTTGGCAG  
CCATGAATAACTGTACTCAAGTCGCCCTTATGGAGCCCTTGATTGAGGCTTCAATAGTGTGG  
ACAGTGGTGATAAGAGATGGTAGGGAATGAAGTAAGTGTTTTTTATGTTCCGTGTGTTATAAC  
ACCTGATTAAGAGAAAAACAGAATGATGAAAATGAAAAGCGTCTTAAGTGGATTGAGTTTCTCA  
CTACATAAAATACAGAAAAGTCAAGGTGGAGGCAAGATTCCCACCCTCTCCAGCAGAATTGG  
CATTCTGCGTCTTACCGGCTTTCTGTACGTGGATTTCCGCTGTTTCCTCATTGCCTCATG  
GAAATAGTTTCATATCATAGAAAGGCAACAGGAGCTGAGCCAGTTGAAACTGAAGCCTACA  
ATCTGAGGTGGGGGTAATCTCGAGCAGAGGTGCTAGATGGTGAGAAAGCAAGTATGACTT  
TCGGCTGATGGGTATAGACAAGGACCTTACTATAGAGTATTCATGTGCTTCAGAGGAATAAC  
N

&gt;791

ACTAATTCCTTTCTCTTTCTTAGACCGATTCTAGTTTGTGCTTCCCTTTCTCGG  
AAACCCCAAGTTTGTGGATGCTGCAGACACTCTGTGCCCCCTGCATGCTGGGTGCTGGC  
CAGCTGCCAGGGCATAAAGACAGAGACGATGTGGCCTTTGTCCTTAAGAAAGAGGTTTGAA  
GCCCCAGTTCTTCCATGTTAGGTGATTTCTTGCAGCTCTTGGTATCTGCAGAATTAGTGTGAA  
TGCTTAAAAAATATTAACAGCTTTATATCATGAAAGTTTTAACATGN

Table 4

&gt;792

agGGCCGgttagaGAACTGCGCATCAGATGCGTGGccagaAAGTTCTTATTTTATGGAT  
TCGAATGACTTTTGAAGAGTATTTCCCTCTAAAGCCAGGTAGTATTAGCTCAGAACAAACATA  
ATTGTGTTGAGTTCATTCTAGGGTTTTCTTTTATATTAAGCCTGTATATAAACTTCATTATGGC  
TTGTGCTGTTACATTCTCCCCAGCCTCCAGTAGGTAGAAGCAGTCCCTAATATAACCATGT  
AATACAGTGGTAACTTCATATCTGTTAGTTGACTGCAGCTGCATTATGGTGAGCTGTGAATG  
TTATCTACAAAGTAGCCAGTAAAGGTTAAGTTTTAGTGTTTCAGTGGTGTGGCCTTTAGCTAGC  
TACTGTGGCCTTCAGCTTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGT

&gt;793

&gt;794

ACGAACTTAAATTTATGATGAATATCTTTGATAATGAGAAATCCTGAGAGATTTTACTT  
TCAATTTTATTTTAAATTTGAAAGAGCATATGACATCTGGAATATTTTAAACATATAGCCATACT  
GTTTATTTAAATTTGTAATAATAGAAATAGAGTAATTTCTACTGTTGGATTTTAAATTTTAAATCAT  
ATTAAGTTTAACTGGATTTTATTTAGGACTAAAATATTTAGGACTAAATAAAATTTTATTAAT  
TAATTTAGGACTTTTGGGAAAAGATATTTTCAAGATTCAGTGCATATCAAAAAAGCGAACAAC  
AGAGGCTTCATCTTTGAAAACCTTCATTGGCTAAAAGTGTCTTCTGTAATACTGATAGTGAAG  
AAACTGTTTTTACATCCGAGATGTGTTTGATGAAAGAGATATGAAAGTGCTGCAAGACAGG  
CTTCTTTAGGACATGCTAGAAGAGGAGCTTCTTAANN

&gt;795

CCACGCGTCCGAAACAGAGTACATGTGATATATAGCCAAAGCTCTCTTCTCTATAAT  
ATTAGCTCTCACAGCCATTGGGGTCTTCTACCATTCAGAGCTGATAAGCAAAGATATCAGCG  
TACTGGAACACAGAACAGTGCCTTGCATACATACCTAGGACAATATCTGCCACAAGGTAGGC  
ACTCAAATATTCATTGAAGGAGTGGCAAGATGGTAACTATTCACATCAACCCCGACAGACAC  
CTTTTGTCAATGACTATAACGCGTCTGACCAAGCCTAAAACCAATATGTGTGGTTGATTGT  
ACCTAGGTGATCTTTGGCTTCTCAAGTTTTTGCACCACTCAGAATCATTTCATATACCACC  
TTTGGCAAACATGCCAGACCTGCAGTAGACTGAAGGAAGCTCTCCCAAGCTCTAAATTGATT  
AATTTATTAGTTCTTAGAAGAAAGAGATTACATGTTTATCTTTTGTACAGAAGAACTTTGA  
ATAGCAGTTGAAAATTTGGCAGGGTGGACCACTAACTTGACAGTGTATTATTGTGTCTGTTT  
TGAAGGAATAAAATGGAATTATTTATAAAGTTTTTCAATTTGATTAGAGAGAGCCATTTTAAAA  
TTTCACATTCAATTTGTAACATTCTAGAAGACAGATTATCTTCTTCTGTATACTGTGTGCAGT  
AGGTATTTAATAAAATATTAACAGAAATGTAACAGTGAATTTCTCATAGGGCTACTTATACCT  
TTGTATTTTGGTTAATGATGATAACACTTGTCAAAGGGCCCTAGGATTAACCTTTTCCCGTAA  
ACCCCTTATTTTGTGTTTTTAATAAGTTAAAGGGCCATAATTTCTTTT

&gt;796

&gt;797

&gt;798

ACAATTTTTATGTTTACAGCTGTAACCCCTGAGTTATCAAGAGATGGAACATTAGATA  
TGATTTATTCCTATTTAAGATAATAGGACATTGCTTGATTACATTTTCAGAAGATATTTATCCAA  
AGAAATTTTTTTTTTAAATCTAAAGGAAAGGTTTTGATTCTTATGAGAAAAGAATGAGATTTCTT  
TAACTGGAAAATTGATTTATGTCCTACAGTCCATTGTGTAGTGATGTTGGATCAATCAGGTAT  
CGCTAGGGTGTCTGTAGAAGTATCTATATATTGCTTTTTAAGTTCTTAT

&gt;799

ACCATGTAGCTCTACTTTTCCATATACAGAGTTGTTTCCTAGCTTTCTGCTAATCTAA  
CTGGATTCTCTTCCCATTTCTCTATTTACTAGATTATAATGCACATCACATAATAAAAGCTT  
AAAAATGGGCTTTACAGTTACTGTTTTCTTTTAAATAAATTGTGAGAGAGCTTTTGCATCATT  
TATTATCTAATCATGATTCAAGTGACTAGGCTGTAGCACCCAAGAACCTTGCCTTAAACAGT  
TTATTTTACCAATAATACTACTTTGCCTTCTTACTTAAAAATGTCCCGTGCTTAACCCTTTTG  
CTCTTTATTTTGATTTAAGCACTTGACCCTAAAGTCTGCTTCTGTCTTACAGAAGATTGTTGT  
CATTTAAAAAATAAAACAATCAGTACTAGAAGTACATAAATAGTAATATCTAACATGATCATT  
TGTATTATATAGGCATATTTAAGTAAATGTGTTTCATTCCATTGAGTATTTTATAAAAGGACA  
GGCCTCTGGAAAATTAGTTTTACTCCTTAGGTTTTCTCATCCANN

&gt;800

NNNCTCTATTTTTTAAACAAGGCTCCCTCAAGATATTAATGTGACAAACTTACATAGCCA  
GCTGTAAGATATCTTTCAAATGCGCAAGTAACCTAACAGATTTGTGCATGTCAGCCAGTAATT  
TCAACATACATTATAAATATGGCCAATTTTCCCAAATCTAAATGAATGGAGATAAAATGCTAT  
ATAATAAATATGTTAGAGCACCTTTCTTGAGAACTTCTAAAAGGAAAAAATAAAAGACATAAT

Table 4

TATACTCACACCACCAGTAAAACCTCTGGTCACCTGTTTTGGGTTGTGGAATGCCCCAGCA  
GCCGAGAGACCTATATTAATATCAACAGAGAAATATCACACACAGAATTAACCACATACAGT  
AAACAAGAGCGAGGAAGTCCTGATGGATGGTAATGCTGCAACTTGGCACAGATATATTCAGT  
AGCTTCCCAGGAATACAAATCTCATGTATTAGCTCAATGTGGCAAGCTATCTCAGATTTGAAA  
GCCTAAATACTCAGATTTTTACTTTAGATTGAGT

&gt;801

ACTGATTATTCTCCTGCTTAGGGAGAAGCGGAAGAAGGCCCTTGGAAGTGTGAGTTT  
TGCATTCCAACCTTGCTAATTCAACATAGATCCTAATTCCTTAAATGCTTGTAAATTAGAAATTCT  
CGTGAAGTGTATTGTTTTGTCAAGCAATCTGTTTGGGGAAGTGTGAGCAACTGGGGCACTG  
CTGGCTAGGGTGAAGTTTATTTAATTTGTTTTATGACATTCTTCATCTTGGAATGGGGTTTT  
CAAATATTGCTTCCCAGGCATCATTACTTATTTGCTGGTTTTTATTTCAAGANNNNNNN

&gt;802

CCCTTTGAGCGGCGCCCGGGCAGGTACGATAGGCATGCAATTAAGAAGACCTGC  
CTCAAACATTTTCTGTGTGACCTGAGGCAAGTCCTTTATAGCTATAAACTAGGGACAATATT  
TGCTGTCATTTTTCTACAAATGTCACAAAGAACAATTTGAGCCTGTGCTGTGAAAGAACT  
TAGCAAATGAAAGCATCCTAGGGAGTGTTTTAGATATCGATATTTTATCCAATTAACTTTTCA  
AAATGAAGTTATTTGCTCACTGAACTGAAGT

&gt;803

&gt;804

ACCTTGACAGTGCCTTTTAAATTCATTTTGCTGGACAGTTGGCAGGCTCTTTCACTT  
GAGAGGCTATATCTTAACGATTTAGAATGGAGAGTTTGGCTCAAGCTCCCTGTGTGTGGTCT  
GTGCTTTCTATACTTTTATTCTTGGTATTCCAGAGTCTGGAGGCTTCTCTTTTAAAAATTGCT  
AGGCTCCTGCCAAATGTTATAATTTGGGGATGTGAGTTCACTAAGAAATCAACTGACAAGAG  
GCAGATTAATAGGAGAAATGACATCGAAATTTATTAGCATGCAGGGGGAAAAAATTGATTAC  
CAAATATCCCAGTAGGGTAGAGATGCTTATATACCCACCTCTTAAGAGAGAGGGGAAGTGGA  
TGATTTTAGGGGAATAGTAAATACTTTNTATGGGAACTCACTGGGCTTGAAGAATATAACAAA  
AGCCTGGGACAAAGTCTGTTGGGCCACAGAACAGACAGTGGTTTATGACAAAAGNN

&gt;805

ACCGGGTGGCGGCCCGCCCGGGCAGGTACTATTACTAGGTTCAATTGTTTCCAGAGG  
GGTGAAACGGGGCTTTGGAGAGGTTAAATAACTTGCCCAGGGTCACACAGCTATTAAGTGG  
TAAAGCTGGGATTTACATGAGCCCAGACAAAGAACCCAAAGAAGCTAAGCTATTCTCTTGTA  
TACCTCCAACATAGGAGGCAAGAAGTGAGGTATTATACAGGTTGAGGAGATAAAGGGGAGA  
GAGGCCTGCAGTGCTAACAGGAGGAGCTGGGATTATCCTGGCTTGTCTGATAGGTCACT  
TAGTCTTAGAGATACCCATGAGGTCACCTACTCAAATGGGGCTCAGAGTAGCCTTGTTCCCA  
TTCTTGTCAGTGGGCGCAGCTACAGTCTTCTGGCTGGAGTGAAGTGGAGGCTGTCCCCA  
CGTCCCACCTTCACTGAGGCATTATGTGCACCCAGCACACTTTCTAGCTTTATTTGCCTGGA  
GGGAAGATTCTCAGAACCTTGTTAAGATGCACAGTGTGGTCTTGGACTGGCAGTGTGG  
CCTCGGCAGTCCCTGGGAGCTTGTTAGGAATGCAGAATCTCAAGCTCCTCCCTACTGAATCT  
AAAGCTGCATTTTAAACAAGATCCCAGCTGTTTCGTATGCACATGAAAGTTTGAGCAGCACTG  
CTCTAGAAAGTTACTTTTATCTTTACTGTGCCACCAAAGTAATCAAACCTTTGTGAAGT

&gt;806

NNCTGTTTCTGTGTGTGTAAAAGGACGGCACAGAAACATGGGCCATCGGTGTTTCCN  
NNNTAGGTTACATATATAC  
ACACATATATAGATATATACACCCACATATATATTTGCTGACATTTTAAATGTGAAGTTTTAGTC  
TGGGATATAAAATGGAATGTATGACATCCTCAAATGTCTGAATACTGTTCACTCCTATGTTTTA  
CATTTAATTTTCAAAGCAAAACATTTCACTTGAAGATTTTATTAGAAAATAAATAATCATTTAG  
CCATATCTAGAAACCAGAATAAAACAATGCCATAAAGCCTATAGGAAAATGCAGGTCAAGTTCA  
TAAATATTCATGTGTTTACTTTCACTACAGGGAGGAATTTGAAGTAGATAGAAACCGACCTGG  
ATTACTCCGGTCTGAAGTCACTACGATGACGTTAATCGTTGAACAAACGAACCTTTAATA  
GCGGCTGCACCATCGGGATGTCCTGATCCAACATCGAGGTCGTAACCCCTATTGTTGATATG  
GACTCTAAATAGGATTGCGCN

&gt;807

AATTCCTATGATGTCAGACCACTGGAGTTTCCAGGGGCAACACCCCATAAACCGTCC  
CGCTGCAGAAGAGCATCAGACGTTCAAGTAAGAATGCAAAGGGTATCTCAGTGGGAACCGCG  
GACCAGGAGAGCTCCCAAACCAACACATGGCTAGGGCTCTTAGGCCCTTTCAAGCTAGAT  
CTTGACGAGAGAAGAGTAAAGATCTTTCTGAGGTTGGTGCAACTGAGGAAACGAAAGTTTCG

Table 4

GCCTCTGCTGTCAGATCTATGAAAGGAAAGAACTGTGAACTTGTCCCCTTTTGTTCCTTTGA  
CTTAAACAAAAGAAAATCACTGGAACAAAGTCTTAAAGTAATAACAGAAATGTCAGAAAAGT  
TGAACATCTTATGGGCACATGCGGTGAGTTACGCTAACTTATAGCATCCACTGAGATTAGCC  
GCATAGGATTCTTCCCATGTTAGAGCTAAAAGGACCTACTGTCCGCCAGCTGCATTGCAGN  
>808

ACTATCCCCTACCTATAAGGCATTATAATGTGCTGGGCATTGTGACACTTTTCATAT  
ATTATCTCATGAAATCCTCACNAATAATTCTGAAGGGTAGCTGGTATTTTATCTCCACTTTAC  
AATTCTGAGGCTTACAGAAGTTAATTCAGTGGCCAGGGTCACACAGTTTACAAGTGCCACA  
TTGGTGAATATAAAGTAGCAACTTCTAAGTTTCACTCTCCCCTTCCCTAGTTATTTTCTTAAG  
GCATGAATGTCTGGGAAATAGCATGCATCAGATNTTCCACCTCTTTAAACTCTTCAGTTTCA  
ATAATNTAGGGTGTGACTATTCATAGATACCTTTGAGCTAATCTTCTGGGAGCCAATGTAACC  
GCAATGCACACTGCAAAACAATGCACGCTTTCTCTGTAAATTAATAATGCCAACCGAGCTTG  
GGAAAAGCCCATCTTTTGATATGAACCAATAGGGCAGTTTAGTTTTAGAAATAAAGAAAGTCC  
ACTGTTCTGCNNNNNNNNNNNNNNNN  
>809

ACTTTTTCTTTTCTTTTTTTTTTTTTTTTGAAGAATATTGCATACCTATTAGAAAAGTC  
TTTTAAACAATTAATAATGAAAATGACTGACAACTTACACTATTTGATTTAAATAAATAAATAA  
TGGTCACATGATAACAATCTCCTGATTGATATGCTTTATTTAACCAGGTTCTCAAACCATTTGG  
ATGTGAAAACCAAATTTTACAATGCAGAGGTAAGTGTGAGTGTTTAATGGGATTTTCATATTA  
AACATTAAGATCGTATTTGACTAAAAATCTCTTATATACATTTCTAATACTGAAGCAAATCGCC  
AACGTGACTGTAAATTTTGAAAAAATCACAAATTTTCAAGTAAAATTGAATAATTTTATTATAG  
GTCTCATAATCTTTTTCAGCTTACATGGAATCAATGTGTCTTGATTTTTATTCTCGTTAATTTTA  
TAAGGCCCTTCATCTCCTTTTCGGTAAATGATTGCCCTCTCATTCCATTTAATGGTGGTTGTAC  
ACTAGCAATCTGTGGAATTTTACATGTGGTTTCGGGATTTTACAAAAANNNNN  
>810

ACTCCATTTCTTTTATTTCATATTATTTACCAAATAATATTCCACTGTGTAGATCTATC  
ACATTTCTGTTAGCAGTTTATCAGCTGGTGGACAATTTGGCTGTTTCCATTTTGGCTGTTAT  
GAATAATGCTGCTATGAGTCATAGAAACCATTCCTCTTACTCAAGAAACAGGTTCTCCAGAAA  
CTAAGCTAACTTGTGTTGAAATGTAAATCTCAGGTATTCTCAGTATAGACCTATAGATTCACT  
TAGCTGGTGGGGTCCACCCAATCTTTTAAACAAGTCTCCAGTGGATTCTGATGCAATGCT  
AACATTTGTGAACACTGTCAAAATCAAAATGGAGTCACTTGTGTTTAAAAATCCTGACAAATA  
AAGCCAGGGACAGCTATGAAGAGAGGGTTCTCATGCATCAATGCCTGATTAACANAACTAT  
CCCAAATGACTCTGCANAAACCAATCCTGCACAAAGGTCATCACAACTTACACAAAAAT  
ATCTTCACAAGGACANN  
>811

ACGCGGGGAACAAACCAACATTTGAGCCAGGAATAACTAGAGAGGAACAATGGGGT  
TATTCAGAGGTTTTGTTTCTTCTAGTTCTGTGCCTGCTGCACCAGTCAAATACTTCTTCAT  
TAAGCTGAATAATAATGGCTTTGAAGATATTGTCAATTGTTATAGATCCTAGTGTGCCAGAAGA  
TGAAAAAATAATTGAACAAATAGAGGATATGGTGACTACAGCTTCTACGTACAGCAGCAGCA  
TTATATTGGTATAAAACAGGTATATCAAATATTAGTGAAGTGTATGGAGACACGCCAGAATGG  
ATACAAAGACAAACAGTATTACAACATAGTTTTAATGATTGT  
>812

ACCTAAGAGTTATTAATACTATTTTCACTAAAAAATAATTAATAAACCTGTGTGAT  
CCCATTGTAACAGAAAGGCTGATGTTTTCTGTTGTGAAATACAAATGCAAGGAAAAAATCATT  
TCTTTGTTTCAAAGGATGCATTTCTTCCATAAAGAATAATTTGTATTTATTTTAAAGGGTTTATT  
TTAACTTATACATCAGCCTATATAAAATACATTTCAAATGATCTGTGCTCTTTAAATTACCAA  
AGCAAATGTTAATTTTTTTTTTCCCTCTAACAGATAACAAGTTTTACTCCTATGCTGATTTTCTG  
GTGCCACTGAAGNNNNNNNNNN  
>813

ACATGTGCATAAGAGGGAATGCTTCCCTACATTACTCCAGAATACAAAGCTTCTTTCT  
GCCTTTCTCATCCACATAATGGAAGACACTTCTTGGGTGAAATACTCCACAGTTATTTCAAGT  
CTCACTGGTGAGTCTGAATATAAGCTCTATGAGAGCAGGGACCTTGTCACTCTTATTCACAA  
TATCCCCAGCCTCTAGAACAAGGCTGGCACATAGTAGATGCACAAAGGTGTTTGCTGAATG  
AATGGATGACTGAGTCTGTGTGGGGTAATGATAGGGCTAAGGATGGGACTCTAACTCAGG  
TTTCTCTGTGGGTTTACAGTTTACTGGTCTTAAGAGGAGAGTTTCTAACTTGCCTTATG  
ATAAAAACCACTTCAGCATTTGGTAAAAATTACCACTTCTGTAGATTCTGAGTCAGTGAGC

Table 4

TGAAGTGGAGCTGATGAATCTGTTTTTGTGATACTGCTGCTGCTGCGGTTTTTAACACATGC  
TTCAGGTGGTTCTAAGCTTAGGAAACCTTGCCCAAGGATACCATCCTGTCTCNNNNNN

>814

>815

ACAAGTATTATGTATCCATAAAAAATTA AAAAATCTTTAAAAATGCATATGGGGGTCAG  
TAGGTAAAAGAAAAGAGAACCAAGAGAGCTGCAGCGGGGAGCACAGCTTGCTTTAAACATG  
AGATCCAGCTCAGTGATCATGCGGGGAAAAGGCCCGGCATTGCTGGAACCTCAATATTT  
AAAAAGATGATGGAAACTTGAAATTTTATATTTAATCTTCTCATTTTTAAGTGTTGGCAATGTA  
TTGAAGACTTTGAAGCCTCTCTGCTGGTCAAACAAGATGTATCTGTAGGCTGGATTTAGTCC  
ACAGCTGGCCAGTTTGAAACTGAATCCTGCTAGCCTTAATTTAAATTTTTTAAATTTAATTT  
GCTTTGATTCTGCACTCCTGCTCAAAAAATCTTCAATGGCTCCCACTGTCTGCAAGGTAA  
AGTCCAAACTTTGTCAACAGTCCTTCAAAGCAACCCATGACTATATCCAAGACCCCAACCAT  
ATTTCTACCTTATAGCCAGTCTCCATCTTCCACCGCAACCAGAATGATAGTTGAATTGACTC  
TAGGAAGGAAAATATTCAGAAAGGCACCACTGCTGGCCATGAGGGCTGCTTCTGGGTCCCT  
AAGCTTTTTCTTTCTGTCAGTGCCCTACACTGTGCATGCCTATCAATGAAACCCCTGTCCATC  
ATTAACCATCCAGCTCAAATACCACCTCTCCACAAAACATCCCTGATGGCCAGCCAAATGC  
CCCTTTGCTCTGAATTTCCATGGGACTTTATATCACTCACATGACACTTACAACATATGCTC  
TGTTTTGGCATTACCTACATAGCTCATTTTCCCAACACCTAATAATTACAGAAGGAAGA  
GTTTGGGTTTTGCACTATATTGAATATCCCTGTAGTGCTTTGTACATAGCANNNNN

>816

NNCGCGTTGAGGCGGCTGCAGCAGTTGCGCGCTGGGATTGTTGCGGTGCGCTGGA  
GCCGAATACAAAATACAGTTAAAAATAAAATGTCAACCTCCTGGAGTGATCGGTTACAGAATG  
CAGCAGATATGCCTGCTAACATGGATAAGCATGCCCTGAAAAAGTATCGTCGAGAAGCCTAT  
CATCGGGTGTTTGTGAACCGAAGTTTAGCAATGGAAAAGATAAAGTGTTTTGGTTTTGATATG  
GATTATACCTTGCTGTGTACAAGTCCCCAGAGTATGAGTCCCTTGTTTTGAGCTTACTGT  
GGAGAGATTAGTTTCTATTGGCTATCCCCAGGAGTTGCTCAGCTTTGCTTATGATTCTACATT  
CCCTACCAGGGGACTTGCTTTGACACACTGTATGGAAATCTTTTGAAGTCGATGCCTATG  
GAAACCTCTTGGTCTGTGCACATGGATTAACTTTATAAGGGGACCAGAACTAGAGAACAG  
TATCCAAATAAATTTATCCAGCGAGATGATACTGAAAGATTTTACATTCTGAACACACTATTCA  
ACCTACCAGAGACCTACCTGTTGGCCTGCCTAGTAGATTTTTTTACTAATTGTCCCAGATATA  
CCAGTTGTGAACAGGATTTAAAGATGGGGACCTCTTCATGTCCTACCGGAGTATGTTCCAG  
GATTAAGAGATGCTGTTGACTGGGTTTATTACAAGGGCTCCCTTAAGGAAAAGACAGTTGA  
AAATCTTGAGAAAGTATGTAGTCAAAGATGGAAAACCTGCCCTTGCTTCTGAGCCGGATGAAGG  
AAGTAGGGAAAGTATTTCTTGCTACCAACAGTGACTATAAATATACAGATAAAATTATGACTTA  
CCTGTTTGACTTCCCACATGGCCCCAAGCCTGGGAGCTCCCATCGACCATGGCAGTCCTAC  
TTTGACTTGATCTTGGTGGATGCACGGAAACCACTCTTTTTTGGAGAAGGCACAGTACTGCG  
TCAGGTGGATACTAAAACCTGGCAAGCTGAAAATTGGTACCTACACAGGGCCCCACAGCATG  
GTATCGTCTACTCAGGAGGTTCTTCTGATACGATCTGTGACCTGTTGGGAGCCAAAGGGAAAA  
GACATTTTGTATATTGGAGATCACATTTTTGGGGACATTTTAAAATCAAAGAAACGGCAAGGG  
TGGCGAACTTTTTTGGTGATTCTGAACTCGCACAGGAGCTACATGTCTGGACTGACAAGAG  
TTCACTTTTCGAAGAACTTCAGAGCTTGGATATTTTCTTGGCTGAACCTTACAAGCATCTTGA  
CAGCAGTAGCAATGAGCGTCCAGACATCAGTTCCATCCAGAGACGTATTAAGAAAAGTAACTC  
ATGACATGGACATGTGCTATGGGATGATGGGAAGCCTGTTTCGCAGTGGCTCCCGGCAGAC  
CCTTTTTGCCAGTCAAGTGATGCGTTATGCTGACCTCTATGCAGCATCTTTCATCAACCTGCT  
GTATTACCCTTTACAGCTACCTCTTACGGGCTGCCCATGTCTTGATGCCTCATGAATCAACGG  
TGGAGCACACACAGTAGATATCAATGAGATGGAGTCTCCTCTTGCCACCCGGAACCGCAC  
ATCAGTGGATTTCAAAGACACTGACTACAAGCGGCACCAGCTGACACGGTCAATTAGTGAGA  
TTAAACCTCCCAACCTCTTCCCACTGGCCCCCAGGAAATTACACACTGCCATGACGAAGAT  
GATGATGAAGAGGAGGAGGAGGAGGAAGAATAAGGAGGAAAACCAAAACCCCAAGCACC  
ATTAACAAGTCCCTGGCAGGACTCACAGGAACAAACGAGGTCCCTGTTAGGGTTCTACTCG  
GGGGAGGGAGGGGGCTCCATGAAAGGTACGTCTGAAAAGTTTCTGAAGATTTTATTATCATA  
GATACTTGTTTTGGTTTTGTGTATCTGTACTCTGTGCAGATGGTCCAAAATTGTAATGGAGTC  
TGATTAGAAGAAAATAAGGGTAAAATCAGGCTGAACTGCATGTATATGGCTCCACTGTGGC  
TTGTGACACTTTTAAAATCATCCGTATGTCAGTGTATCTGGATACACGAGGAAAAGGAAAGA  
GTCTCAGAGTGGAAACAAAGAGTGGGAAGAGGTGATCTGTAATGTTACAAATTGTGCTATTAC  
TCCAAGGTCCAACCTTTTCCAGTGCATTACATGGTATTGTATATCAGTGGAGAAATGTATTATT

Table 4

TCCATGATCAAATGTAGTCTCTGTAAAGGTCAAGTTTTCTTTATAAGCCTTTAATTCATCCTC  
AGTGACTCTGGCAAGGCTGCTTCTCTATCACTGGCTTTGCACAGAAGTATGCTCTACTTGCG  
TTGCTTTAGGGCAGGATTCTATTTTGAGGGAAAAGACAGTATCCTTATTACCTTTTGTTTGTT  
AATAGCACAAATGCTTATTTGTTATCCAAAAACAACCTCCTTCTATCTGTGATAAATCTATAG  
AAAGAATTTAGCTGCAAGTGGACAAAGGAACAAGCCCCAGAAAAGAAAGGGAAGAACTGC  
CTTCTTATACTACAGAACATGCATTAGTGTGGGCTATATAGCTGTGGCTCATGCTACCCAATT  
CCAGATTTCTTTGTCTCTAAGAGTTGATTGCTGTATATTAATTAACATCAGAGGATGGG  
AAGAGGGCTCTGTAAGCCAGAACCTTACTAAAGTAGAGGGCACAATCAGTGTGAATAAATT  
ACTTCAGAATCTCAAGTCAAGGCCAGGCACGGCGGCTCACGCCTGTAATCCAGCACTTTG  
GGAGGCCGAGACAGGCGGATCACCTGAGGTCGGGAGTTGAGACCAGCCTTACCAACATG  
GAGAAACCCCATCTCTACTAAAAATACAAAATTACCTGGGCGTGGTGGTGCATGCCTGTAAT  
CCCATCATCTACTCAGGAGGCTGAGGCAGGAGAATTGCTTGAACCCAGGAGGCGGAGGTTG  
CAGTGAGCCAGGATTGTGCCATTGCACTCCAGCCTGGGCAACAAGAACAACAACTCCATCTC  
AAAAAATAAAAAATCCCAATCCCAAGTCGAAATCACCTCTTGTTTAAACAAGAATGAATCATTA  
CTGTGTATGTTAGGGTATTAATACTGTTTCACCAGTACAGTGAAAGTTGTTTCAACATTTTAAA  
CAAACAGTGGTTATAGACTCTTTCTTTAACCATTGTATATTTCTTCCATTCTTGTCAATTGGTC  
AATAGGGGAGGGTAGATTAGCTGCTCCAGAATTCAATAAAGTGAATATTTCTAACGGTGAC  
TTTGACCTATTCTGTAGTACAACCTGTAATAGCTATTGGTCTTCAAGTGGGTTTAGATTTGGTG  
ACATCAGTTTGATATTCTCTTAAGGAAATAAATATTCAAGAACTGATTATGTTCTAACATGAT  
TATATTCATGGTGTACATAGGCCTCAATTTTTTACAGAAAGATTTTTGGAACAGGACTGTG  
AAGTGAGGCTTTTTAAAAAATTATTTTATAAGCAGAGAACACAGCCTGATAACTTAGTCAAGG  
ATATACTGTCTGTCTCACTACTTTGGACTTATATGGCTTCAGATTAAGTCATCCAAGAAACATA  
CATACATTCTAAATGGTATATATTGGGAATATATGCCCTTTAAAGAATCAGGTCAGAAATG  
CAATAACAATTAGACTAGACTGTTGCCCGTGTTAGGAGAATGTGTGGTCATCCTAGTTACTAA  
TACTCTCACTCAAGATGGAGATGTTGTCCAGTTAACATAGTCTTAAGTTTTCTTAAACCCAA  
ATAATTTATGAGTAGCTTATTACATCTGCAGAGCTACCTTATTATAATAGTACCTGCCNNNN  
>817

ACATGTAATAGACACTATGCTACAGCAAAAGCTTTTTCTTATTGTCTTTAAATTTTCT  
GGGTGCATAAACTATGTNGGTAACCTCTTCCCAATTTTAACTTTTACATTACAAGTCATTT  
CAGAGTAAAAAGTCATTTAACAAAGGCAGATAGAAAGGCCTCAAATCCCTGAGGACCAAAAA  
TCCCAACACATTTTCAAAGGGGAGAAATTTCTTTAACTTCATGGGAAAAGTATTTTAAAT  
AATAGAGAGGCTTTATGCAGTCTTTGACAAGATGATACTTTTGAATAGAACAAGAAGAGGA  
AAATATTTATATTATAATATTACTGTGTCAAATCTATGTTGTCAAAGAGTGACTATCTCTG  
ATGANNNNNNNN  
>818

>819  
NNCGCGTTGAGGCGGCTGCAGCAGTTGCGCGCTGGGATTGTTGCGGTGCGCTGGA  
GCCGAATACAAAATACAGTTAAAATAAAATGTCAACCTCCTGGAGTGATCGGTTACAGAATG  
CAGCAGATATGCCTGCTAACATGGATAAGCATGCCCTGAAAAAGTATCGTCGAGAAGCCTAT  
CATCGGGTGTTTGTGAACCGAAGTTTAGCAATGGAAAAGATAAAGTGTGTTTGGTTTTGATATG  
GATTATACCTTGCTGTGTACAAGTCCCCAGAGTATGAGTCCCTTGTTTTGAGCTTACTGT  
GGAGAGATTAGTTTCTATTGGCTATCCCCAGGAGTTGCTCAGCTTTGCTTATGATTCTACATT  
CCCTACCAGGGGACTTGTCTTTGACACACTGTATGGAAATCTTTTGAAGTGCATGCCTATG  
GAAACCTCTTGGTCTGTGCACATGGATTTAACTTTATAAGGGGACCAGAACTAGAGAACAG  
TATCCAAATAAATTTATCCAGCGAGATGATACTGAAAGATTTTACATTCTGAACACACTATTCA  
ACCTACCAGAGACCTACCTGTTGGCCTGCCTAGTAGATTTTTTACTAATTGTCCAGATATA  
CCAGTTGTGAACAGGATTTAAAGATGGGGACCTCTTCATGTCTACCGGAGTATGTTCCAG  
GATGTAAGAGATGCTGTTGACTGGGTTTATTACAAGGGCTCCCTTAAGGAAAAGACAGTTGA  
AAATCTTGAGAAGTATGTAGTCAAAGATGGAAAAGTGCCTTTGCTTCTGAGCCGGATGAAGG  
AAGTAGGGAAAGTATTTCTTGCTACCAACAGTGAATAAATATACAGATAAAATTATGACTTA  
CCTGTTTGAATTTCCACATGGCCCCAAGCCTGGGAGCTCCCATCGACCATGGCAGTCCTAC  
TTTGACTTGATCTTGGTGGATGCACGGAAACCACTCTTTTTTGGAGAAGGCACAGTACTGCG  
TCAGGTGGATACTAAACTGGCAAGCTGAAATTTGGTACCTACACAGGGCCCCACAGCATG  
GTATCGTCTACTCAGGAGGTTCTTCTGTATCAGTATGTTGACCTGTTGGGAGCCCAAGGAAAA  
GACATTTTGTATATTGGAGATCACATTTTGGGGACATTTTAAATCAAAGAAACGGCAAGGG  
TGGCGAACTTTTTTGGTGATTCTGAACTCGCACAGGAGCTACATGTCTGGACTGACAAGAG



Table 4

TTCAC TTTT CGAAGAACTTCAGAGCTTGGATATTTCTTGGCTGAACTCTACAAGCATCTTGA  
CAGCAGTAGCAATGAGCGTCCAGACATCAGTTCCATCCAGAGACGTATTAAGAAAGTAACTC  
ATGACATGGACATGTGCTATGGGATGATGGGAAGCCTGTTTCGCAGTGGCTCCCGGCAGAC  
CCTTTTGGCCAGTCAAGTGATGCGTTATGCTGACCTCTATGCAGCATCTTTCATCAACCTGCT  
GTATTACCTTTTCAGCTACCTCTTCAGGGCTGCCCATGTCTTGATGCCTCATGAATCAACGG  
TGGAGCACACACAGTAGATATCAATGAGATGGAGTCTCCTCTTGCCACCCGGAACCGCAC  
ATCAGTGGATTTCAAAGACACTGACTACAAGCGGCACCAGCTGACACGGTCAATTAGTGAGA  
TTAAACCTCCCAACCTCTTCCCACTGGCCCCCAGGAAATTACACACTGCCATGACGAAGAT  
GATGATGAAGAGGAGGAGGAGGAGGAAGAATAAGGAGGAAAACCAAACCCCAAGCACCC  
ATTAACAAGTCCCTGGCAGGACTCACAGGAACAAACGAGGTCCCTGTTAGGGTTCTACTCG  
GGGGAGGGAGGGGGCTCCATGAAAGGTACGTCTGAAAAGTTTCTGAAGATTTTATTATCATA  
GATACTTGTTTTGGTTTTGTGTATCTGTACTCTGCAGATGGTCCAAAATTGTAATGGAGTG  
TGATTAGAAGAAAATAAGGGTAAATCAGGCTGAACTGCATGTATATGGCTCCACTGTGGC  
TTGTGACACTTTTAAATCATCCGTATGTCAGTGTATCTGGATACACGAGGAAAAGGAAAGA  
GTCTCAGAGTGGAACAAAGAGTGGAAGAGGTGATCTGTAATGTTACAAATTGTGCTATTAC  
TCCAAGGTCCAACCTTTCCAGTGCATTACATGGTATTGTATATCAGTGGAGAAATGTATTATT  
TCCATGATCAATGTAGTCTCTGTTAAGGTCAAGTTTCTTTTATAAGCCTTTAATTCATCCTC  
AGTGACTCTGGCAAGGCTGCTTCTCTATCACTGGCTTTGCACAGAAGTATGCTCTACTTGCG  
TTGCTTTAGGGCAGGATTCTATTTGAGGGAAAAGACAGTATCCTTATTACCTTTTGTGTTT  
AATAGCACAAATGCTTATTTGTTATCCAAAACAACCTCCTTCTTATCTGTGATAAATCTATAG  
AAAGAATTTAGCTGCAAGTGGACAAAGGAACAAGCCCCCAGAAAAGAAAGGGAAGAACTGC  
CTTCTTATACTACAGAACATGCATTAGTGTGGGCTATATAGCTGTGGCTCATGCTACCCAAAT  
CCAGATTTCTTTGTCCTCTAAGAGTTGATTGCTGTATATTAAATTTGAACATCAGAGGATGGG  
AAGAGGGCTCTGTAAGCCAGAACCTTACTAAAGTAGAGGGCACAAATCAGTGTGAATAAATTC  
ACTTCAGAATCTCAAGTCAAGGCCAGGCACGGCGGCTCACGCCTGTAATCCAGCACTTTG  
GGAGGCCGAGACAGGCGGATCACCTGAGGTGCGGAGTTTCGAGACCAGCCTTACCAACATG  
GAGAAACCCCATCTCTACTAAAAATACAAAATTACCTGGGCGTGGTGGTGCATGCCTGTAAT  
CCCATCATCTACTCAGGAGGCTGAGGCAGGAGAAATTGCTTGAACCCAGGAGGCGGAGGTTG  
CAGTGAGCCAGGATTGTGCCATTGCACTCCAGCCTGGGCAACAAGAACAAAACCTCCATCTC  
AAAAAATAAAAAATCCCAATCCCAAGTCGAAATCACCTCTTGTTTTAAACAAGAATGAATCATT  
CTGTGTATGTTAGGGTATTAACCTGTTTCACCAGTACAGTGAAAGTTGTTTCAACATTTTAA  
CAAACAGTGGTTATAGACTCTTCTTTAACCATTTGTATATTTCTTCCATTCTTGTCAATGGTC  
AATAGGGGAGGGTAGATTAGCTGCTCCAGATTCAATAAAGTGTAATATTTCTAACGGTGAC  
TTTGACCTATTCTGTAGTACAACCTGTAATAGCTATTGGTCTTCAAGTGGGTTTAGATTTGGTG  
ACATCAGTTTGATATTCTCTTAAAGGAAATAAATATTCAAGAACTGATTATGTTCTAACATGAT  
TATATTCATGGTGTTACATAGGCCTCAATTTTTTACAGAAAGATTTTGGAACAGGACTGTG  
AAGTGAGGCTTTTTAAAAAATTATTTATAAGCAGAGAACACAGCCTGATACTTAGTCAAGG  
ATATACTGTCTGTCTCACTACTTTGGACTTATATGGCTTCAGATTAAAGTCATCCAAGAAACATA  
CATACATTCTAAATGGTATATATTGGGAATATATGCCCCCTTAAAGAATCAGGTCAGAAATG  
CAATAACAATTAGACTAGACTGTTGCCCGTGTAGGAGAATGTGTGGTCATCCTAGTTACTAA  
TACTCTCACTCAAGATGGAGATGTTGTCCAGTTAACATAGTCTTAAGTTTTCTTAAACCCAA  
ATAATTTATGAGTAGCTTATTACATCTGCAGAGCTACCTTATTATAATAGTACCTGCCNNNN  
>820

ACTAGAATTAGTTCCAACTACTGCTGGTGATAAACTCACCATCTACCTTCACTTGTTT  
TCTCTTAATTCTCCAAGAAGTAATCAGGTGAATAAAGAATCATCATCAGATAATATTCTCCAAG  
ATTCTTTAAGAAATTAATTTTTATCTACTCTTAAATGATTGCACAATTATAGGATAGAAATTA  
ATCTTGCTCTAATTCAAATTGCTCTTAATGATCCTAGAGAGAAATGAATTACTAGAGATAAA  
AGATAAATTTGCTGTGGTTTGCGATCTTTGTTTCTTCTTAAACTTAAC  
>821

NNNNNNNAGTAGAGACGAGGTCTCGCCATGTGGCCCTGGCTGGTCTCGAACTCCA  
GAGCTCAAATGATCCACCCACCTTGGCCTCCCAAAGTGCTGGGATTACAGAAATGAGCCAC  
CACACCTGGCCTGATTGTTTTAAATGGCAGGACGAAGAGGGTTGGACAGCAAGGGCAAAT  
CACACAGTATGTGGCATATTCAGAATTGGTTGTAGTTTCCAGTAGAAAGCACTAGGAATAT  
CCATAGGGCAAAATGGAATACTAATAATCCTCATTTGCCTTTGCCTTTGTAAGTGGAAACCAGA  
CCTTACTTAAGCCCAACAAAGGCAAGTTTGGGCCTGCCACAGCGGATTTCAAAAAGACAAA  
GCAATGCAAGCCACGTGTTCAAATGCCCTAAGTGGCTATTCAGGTAATATATAAAGTAAG

Table 4

ACCAGGCTAATTAGTATACAATGGGGTAAACCAGAGAGCAGAAAGCCCTTCTTTAAAATGAG  
CCTACCACTGCTTGGCCTCAGTGTGAATTTAGACCCCATCTTCTGATATTTTCAGGAGAAAAGTA  
AAAATCTAGATTTTTATCTAAAATCTTTTTAATTTTAAACAGTCACCTGATTTTAAACGAAATAC  
TATGTGTGCACAATGGAAGTGTCTACGGGAATGATCTAGTCCAGAGGATACCAGGTTCTCA  
CAATGTCTTATAAAGTTGTTTAAACCATAGTACCTGCCCGGGCGGCCGCTGCCACCGCGGT  
GGA

&gt;822

ACAGAGCATCTTAAGGTTGGAAGGACTCTTAGAGACCATAGTCCAGCCTCCCACTTG  
ATACTGAAACACGTTTGTGAATTCATGGCCGATGTCTAACTTCCCTCACCACCTTTCCGATAT  
GGACAGTTCTCATGCCCAGAAGCAAAACCTTCTTTATTGTGCCTGTCCTCCCTTGACTGTCA  
GCATATAATCAGCATCTTTCCCACTAAGTGAAGGGCCAGACTCGAGCACAGGAGCACAGC  
ACCCCTTAACTCACGAGGGGCTGCATTACACCATCAGCAGGGAGATTACACTTGTGTCA  
TTG

&gt;823

AACACATTTTGATATATCAAGAAAATAAATGGAAATGGGGGTGATAATTTATATTTGT  
AATTTACAAATCAAACATCTATCATACACTTACTATGTACGCGGGGAGAGAAAAGAGGCAACTA  
CATTGCCTGGAGGAAGCCTAAGGAACCCAGGCATCCAGCTGCCACGCCTGAGTCCAAGAT  
TCTTCCCAGGAACACAAACGTAGGAGACCCACGCTCCTGGAAGCACCAGCCTTTATCTCTTC  
ACCTTCAAGTCCCCTTTCTCAAGAATCCTCTGTTCTTTGCCCTCTAAAGTCTTGGTACATCTA  
GGACCCAGGCATCTTGCTTTCCAGCCACAAAGAGACAGATGAAGATGCAGAAAGGAAATGT  
TCTCCTTATGTTTGGTCTACTATTGCATTTAGAAGCTGCAACAAATCCAATGAGACTAGCAC  
CTCTGCCAACACTGGATCCAGTGTGATCTCAGTGGAGCCAGCACAGCCACCAACTCTGGG  
TCCAGTGTGACCTCCAGTGGGGTCAGCACAGCCACCATCTCAGGGTCCAGCGTGACCTCCA  
ATGGGGTCAGCATAGTCACCAACTCTGAGTTCATACAACCTCCAGTGGGATCAGCACAGC  
CACCAACTCTGAGTTCAGCACAGCGTCCAGTGGGATCAGCATAGCCACCAACTCTGAGTCC  
AGCACAACTCCAGTGGGGCCAGCACAGCCACCAACTCTGAGTCCAGCACACCCTCCAGTG  
GGGCCAGCACAGTCACCAACTCTGACTCCAGCACAACTCCAGTGGGGCTAGCACAGCCAC  
CAACTCTGACTCCAGCACAACTGCACTGAGGCCAGCACAGCCACCAACTCTGAGTCCAGC  
ACGACCTCCAGTGGGGCCGGCACAGCCACCAACTCTGAGTCCAGCACAGTGTCCAGTGGG  
ATCAGCACAGTCACCAATTCTGAGTCCAGCACACCCTCCAGTGGGGCCAAACACAGCCACCA  
ACTCTGAGTCCAGTACGACCTCCAGTGGGGCCAAACACAGCCACCAACTCTGACTCCAGCAC  
AACCTCCAGTGGGGCCAGCACAGCCACCAACTCTGAGTCCAGCACGACCTCCAGTGGGGC  
CAGCACAGCCACCAACTCTGAGTCCAGCACAACTCCAGTGGGGCCAGCACAGCCACCAAC  
TCTGGGTCCAGCACGACCTCCAGTGGGACCAGCACAGCCACCAACTCTGAGTCCAGCACAG  
TGTCCAGTGGGGCCAGCACAGCCACCACCTCTGAGTCCAGCACGACCTCCAGTGGGGCCA  
GCACAGCCACCAACTCTGAGTCCAGCACAGTGTCCAGTGGGGCCAGCACTGCCACCAATTC  
TGAGTCCAGCACAACTCCAGTGGGGCCAAACACAGCCACCAACTCTGGGTCCAGTGTGACC  
TCTGCAGGCTCTGGAACAGCAGCTCTGACTGGAATGCACACAACCTCCCATAGTGCATCTAC  
TGCACTGAGTGAGGCGAAGCCTGGTGGGTCCCTGGTGCCGTGGGAAATCTTCCTCATCACC  
CTGGTCTCN

&gt;824

ACCCCATATAGTAGGGAGACTGAATCTTCAAAGTTACAGGGTGAATCAATGATAA  
TGATCTTTGCAGCTTTCTGGAGTTAAAAAGCATCAAAATTGGGAGATATTAGATGATGACATC  
TAAGTATTAATAAAGGAGATATTAATGATGACTCCTAGAAATGAACCTGAATAAGGACTAC  
CGCAATGTGTGTGGTGTGGGAAAGGACAGTTCTTTAATGGCTGGCTGACCCAGCCTCAATT  
TTCTTGCACTTCGCCGACACGAGGTGACCATCTGCAATTACGAAGCATCTGCCAACCAG  
CAGACCATAGGGTCCATCAGGTTACCCACAGACACACTTTATTTCTAAGGGCTGGCCAAG  
GCTCCCATAGAGGCGCTGTGTGAGTGAAGATGTACGACTACCTGTTGGGAAGGACAAAGGG  
GATGAGGCTCCAGAGAGAGTTGGCTGCCACAGCCTCTGCCAAGCTTTGTCTTTGGGGCTT  
GCTGCAGAACTCTGGGCCTACGGAAGGTACGACACCACTGGGAGGGTTGTGTAGGTGCCA  
GGGGACCATCGTGGTTCTCTAGGGCGCTGTGGAATTTGGGTCTTGGGCTGGGTGGCATCT  
GGCAGTCATGGATAACACTTGCTTTTCCAGTTAATGTGGCCATGTGATTCCAAGTGTCACTGT  
GCTTTGTGGCAAGATTGTTGTGTGACTTGTTTTTTGTTTTTTGTTTTTAAAGGAAA  
CTATTTGTGGCTATAGGAAACTTTCTGATGCCTCCGATTGTGTTAATAATAN

&gt;825

GTCCGGTTGAATAGATTAGTTTTTCTCAGTAACTTACTATCCAGCAGACTGGCTTTCC

Table 4

TGAGACTTGAGGTTGTGGCTTATACTGGAATGAGACCACTGTACGTGTAGGTGGTTCAGATC  
CTGCGTAATGGCAGCATGAGGACTTAAAGGTGGTTTTTCATTTTGAAGATGGCTATGTAGCT  
TGTAAGGTGTATCACAGCAGTACCTCTCATGGCTTTTTGGTCCAGCAGTGAGGGCATTGGT  
GAGATCAATGGTAAACTGTGCAAGCTTTCTTTTTATCATTAGGAAATGTGAAACGTTGGACAA  
ATTTTGAGTTTTAACAAGGACAAAAAGTTGAAAGAAAAGGCACAGTTAACAAAAAAGGGTGG  
CTAGATTTATCTTGGGTGATGGAGGAAATGAGAGAGGAATGCTCTTGAAAGGTGGTCTGTGG  
ATCTGTCTGAATAGAAAGAGCACAGTAAGTATGCATTGCCGGAGAAAACGTCCTTGAAGCTG  
CTTGTCTCATGTGTATGATGTGCTTTTTAAATCATGCCCTCGTTGCCTGCCTAATCTGTGAC  
TCCCTAAAACTAACTGGGCCCATGTAGATGGGGCTGCAACCAGAGCTGAATAACATGTTAG  
GCTCACACATGCATCAGCACTGCACACTGGAATCATTGCTCTTCCCTGGACTTTGTAGAAATC  
AGTCTCAAGTGCTTCAAGAGTCTGGCTCCTGCTACTTTTTATCTGTGAGGTAGCACATAAGGT  
TGCAGGGTTTATATTTGTATAGAATCACAGTTGTGGAGAAAAAGTAATAATTTCTCAATGAAT  
TTTAAAAATGGGCCTATTTCTATCCCCGTGGTTCATCTGATATAATTAGTGTCCCTGTGAAT  
TCCCCCCTCTATGGGAAGGATGCCTTTACTCTTTATCAGTAATAAATTATGACTGTTTTCATA  
TTGCCTTAGGGTTATTTCCCTGTGTAAACCATTGCTTTTTGTTTTGGTTTTCTTTAGCATTATG  
AAGCTTTGGTATTGTACAAGGTCAGTAGTAAGATGCTCACTAGTCTCAGGGCTTGTTGAATAT  
TCTGGGAGGTCAATTTAAATGCCAGAAATGGTCAAGCAATTATACACAGTATTTTACTGCTGT  
TAAGCATACCGTTTGTCTGTCTCACATTAGTAGATTCTGAGATTAATAAAAAATTTTAAAGAGTGA  
TCATTTAAATAATTTCTAAAAGGGTCTTTTCAAGCTCTAACAAAGTCACTAACAAATGCATTAT  
TTTCTACAGAATTAGATGTTAGTAGTACAGTACTGCATATTCAGGGAAAAAGTGTGAGGAATT  
GATTTCAAAATAGTTCTGTTCTTGTGTTGACCTAAGAATGATTGTGCGCATGAAGTGTTTGT  
TACAGTTTAGCATATATAAACAAACATGATAGGATTCTTAAGATGTTACCACCCAGGGGGCC  
ACAAGCCAGCCTGCTGTCTCAGGAAGCTGTAGAAGGAGTGTGTTGTCATTTCTTGTCACTGG  
TTTGCTGACTTACTGAGGATTAATTGTTGCCTTACAATGTTACTGAAATAAACTGTTTAATATA  
AAAAAAAAAAAAAGTCGACGCGGCCGCGAATTTAGTAGTAGTAGGCGGCCGCTCTAGAGG  
ATCCAAGCTTACGTACGCGTGCATGCGACGTCATAGCTCTTCTATAGTGTACCTAAANNNN  
N

&gt;826

ACTCAACAAGCAGCTGACTTATGTTTTATTGGACATTGTGATACAGGAACTGTTTCCA  
GAGCTCAATAAGGTACGCGGGAAAGTCAACTCAGTTACCTCTGTTTGGTGTGTGTATCACTT  
GCAGATGCTGTCTACCACCTTTTCAGTGACATCCTAGAAGCTTCTCTATTACCACAGTAAC TG  
GCTAACTAGATATGATCTTTCCCTAATTTTCATGAGCATCTTTTTCTGATATAAACCCAGGGGAG  
GGAAATAACAAAGTTGCTTCACTCTGAAGGAGTATTCTCCTCTAGTACCNN

&gt;827

ACATATATGAAAAGCCAACATTCTAAAGTAGAGGTTCACTTAATTTTTTTTTTTTCAA  
GAGAGGCTTCTTGGTAGTTTCATCACACAGTGGTTTTATTAGGGGATGTAAGGATTACAGAA  
ACATCGTATTTTTTAACATATAGTATTTTTTGAATATGATTTGAATTAATATAGAAAAGTGCAAT  
TTTTCCAGTTTTTTAGGGAAAAGGAGATACTTCACCAGGAGGATAAAAAGGAACAAGAGGG  
GAAGGGGAAATAAAAAATTCAGAAAGATGAAAAATTGTTGATGTAAGATGGAGGCANN

&gt;828

NAGCTGTTTCTGTGTGTGTAACGACGGCACAGATGCCGTCTCCGTCGCCGCTCCC  
TCCTGTGAGGGATACCACCGCAATTCGCCCTTATCGTGGCCGCGGCCTATGTACAAACAAG  
CTTTGTTAACTAACCTTGCCATCCTGGCTACTTTACCCAATTAACCACCCTAGCCCAGGAC  
GTTTTGCTTTATCACATGTTTACAGTTTGCTATTCTTTGTTCAATCTTGTAAGTGAAGTGAAGT  
GCTTCTGTGGGTCTCTGTTTCTTTATGAAGTTTCCAGGCCATACAAAACCTTGTTAGCCTA  
TCTTCTGTGAGTTTAAATTGTGGAAGTCAAGCCAGGCCCTTAAGAGGATGGAGGGGAGTTTTTC  
CCACAGCAGTTCTGAATGGGATGAAGTGAAAAATAAAATCTCCCCATTGCCACTACACCACC  
TCCAGATGAGTCTTGCAGCAGAAATACCGTTTAACTGTTTCTGCTTTATTTTTTTCTGATTAT  
CATCCAGTTTATATATTCATATCTGTGTGCTTTGATAATTATATATACATACTTTTTTGATATT  
ATTTACTTATTCTTTACATTGAAAAGGAAGTCTGCTGTGAATCTACATTCCTTTTCTCCTACA  
TTTTTTTAGTTTTCTTCAATTTGGTTTCTAATTGAACTAGAGGTAGACTGACTGTAAATAGAA  
AGTAGTTTCAGCTTCAGGACCTTTAATTTCTCAGGCTCCTTCCAATGTTCTGGACCTAATTC  
GAATTTGCAGTATGTN

&gt;829

NNNNCGAGGTGACGGTATCATAAGTTTTTTTTTTTTTTTTTTTTGTTTAAATCATT  
ATTATTACAGGAGTGCCTTTTAGGTGGACCGCTCTGTATGACTCTCATGCTTCAAACTATT

Table 4

TTTTATTCAAGTGAAGTACAAATGGCCCTAGGAAACAAGTTCTGTTATTATCCCCCATTTTAAAA  
TGATGAAAATGGACAAAAGCAAAAGCAAGCAACTTAACCAATACCCCATGGCCCTCACAGCCTT  
TAGAATAGTCATATTATATAAATATGGCAATAACAATGCACTGAAAATGTCTCCAAAACAACT  
CTACATTTTAAAAAATGTATAACAGGAATCTAAGGAAGGGGTCTTACTTCTCTGATTCAGGGA  
GTGCGAAATCCCTTAAACTCATATCAGACCTGTGATGAACAAACTCACACTAAGTTTAAAAA  
CTGCTTAATTTACTTTATCATGACTAGTAATATATAAGAATTTTGTATATACTTTTAAAAATA  
ACTTTGGAAAACCTATTTTTGCCTGATCAGCAATAAAACTACTGATAAGATAAGCTGGTTATCA  
AATAATCCCTAGTGTTAATCTGGCAAATAATTGTTATAACCCAATCTTGTGAATTGAAGACAG  
GCACATTATAGATAATCAAAAATATTAGAAACACATTTAAAATGTCCATATGTTTAGTATAAAT  
AGAAAATTCATTGACTAAAATAAGTCATGAAACATGGACTGGAATTTTGTGAGCTATTAAGTTT  
CATTTTGTCTTACTGTTTTAAAATTTAAATAGTTTGGCTCATTTCTACATTTGTTAAAAATTGTAA  
TCTTAAAATATTAAAAAATAACTTTACAAAACACAGATATGACTAGCCATTTTATCTAAGTTA  
TAAAATAGTTACCCAGGGAGCCTTCAAGATCCCTATATTTTAAAGCTTATTTCAAAAACCAT  
CACTACTTCACATTTTAAACTGCATCCTTGCATTACAGAAGTGTAAATGTGTTGTCATACAGT  
AAATATCCACATCCCAATTCTAATTACACCATTTCTGTTGTTAACACAGAGCACTGCTTCTAAT  
AAAAGCATGGCATAGTTCTACAGTTTCAATGGCAAATTAAGGTTTTTTTTGTTGAAGAGAT  
AATGAAGCAATCACCAAGATATTTGAAACAACAAAGTTAACATTACAATGATTTCAAGAAAAA  
CTAAGAATATATACACTTACATAAAACAAAAAAGGAATAATTCACTTTATGAGAGAAGAAAA  
GAGAGACAGATTTTTAAAATATTTGGATTCTTACCCCATATGGAATTAAGAAAAAAGAAAAA  
ACTGGAGAGAGAAACAGAAAGAGACAGAGAGAAAGAGAGAGATGCTACTTGACATTTTAAAG  
ACCAAAAACCTTGCAAGTAGTAAAAATACATTCTGAAAGTATTTTAAACTTAAATTTCACTGGCA  
AAAGTAGGTAACAGGGGAGACACAGATTCAAGTCCCCGCGTCTATACAAAGCACCTTTTGG  
CCACATTCCTGTCTGGAGACCAGCCAATGTCAACTGATCTATGAATCTGTTATTGCTGTGA  
GT

&gt;830

NNNNCGCGGCGCGCTCGACACGGCTGCGAGAAGACGACAGAAGGGGGAACGCTC  
GGCGCTGCCGGGTGAAATCGTAGGACAGTGAAGATGCTGCTGGAATTGTCCGAGGAGCATA  
AGGAACACCTGGCCTTCTGCCTCAAGTGGACAGCGCGGTGGTCGCCGAGTTTGGGCGGA  
TTGCTGTGGAATTCCTGAGACGCGCGCAAACCCAAAAATCTACGAAGGCGCGCCAGAAA  
ACTCAATGTGAGTAGTGACACTGTCCAGCATGGTGTGGAAGGATTAACGTATCTCCTCACTG  
AGAGCTCAAAGCTCATGATTTCTGAACTGGATTTCCAAGACTCTGTTTTGTTCTGGGATTCT  
CTGAAGAATTAACAAATGTTGCTTCAGCTTTATCTGGACAACAGAAAAGAGATCAGAACGA  
TTCTGAGTGAATTGGCACCAAGCCTTCCAGTTATCATAACCTTGAATGGCGACTAGATGTA  
CAGCTTGCAAGTAGAAGTCTCAGGCAACAGATTAACCCAGCAGTGACTATAAAGCTACACCT  
TAATCAAAATGGAGATCACAACACCAAAGTTCTGCAGACAGACCCAGCCACCCTGCTCCATT  
TGGTTCAACAACCTGGAACAAGCATTGGAAGAGATGAAGACAAACCACTGTAGGAGAGTTGTT  
CGCAACATCAAGTAGTACCAGTTTTAAGGTTTTAATTCATTTGAATCACTTATGAATTGATGAT  
ATACAGCAATTACTTTTTCAAAATTAATTTTTATTAATTCATGATGATAAATACATAGTATTCT  
CAGTATCTATTCCAAGATACTGAGGTCATAATCAGAAGCTAAGCTGGGTGCAGTGGCTCATG  
CCAGTTATCCCAGCACTTTGGGAGGCGGAGGTGGGCAAATCATGAGGTGAGGAGATTGAGA  
CCTTCTGGCTAACATGGTGAAACCCCATCTCTACTAAAAATATAAAAAATTAGCCAGGTGTG  
GTGGCACGCATCTATCAGAGTCCCAGCTACTCAGGAGGCTGAGGCAGGAGAATCGTTGAA  
CCTGGGAGGTGGAGGTTGCAGTGAGCTGAGATTGTGCCACTGCACTCCAGCCTGGGTGAC  
AGAGTGAGACTCCATCTCAAAAATAATAATAATAATAAAGTAAAAATAAAAAATAAAAAAGT  
AATCAGAAGCTAAAGTAAAGTTCTTTCTGGTGCTAACTGTGGTCTTCTTGACACATTAAGA  
TGTATTTTGTATTTAAGAGTCTCATGCTCTACCGTTGGAAGTACCCAGATGGCCATTATTTT  
GTATTTTAAATACATAAATAGGATTGAATCAACTAGAAATGAATCTATATGTTCTGTATATATG  
AATGACTATCTTGTTTTTGCTACTTCTTTGACTGCTTAATTTTATTATTTTCTATTTTATTGATC  
AAATTTGAAAATAAAATTCACAATGTAATACTACTACTATGCAGAATTTTCTAACAGTTCAGT  
ATTTTGTACTTTTAAAAACACCCACAGTGTTAATAGCCACAGAATATTGAACATCAATAGGAT  
TTTTAATGCTATATTGTTATAGGCAGTTTATTCATTTTCTTTGTATATGAAGATGATAAGTATC  
ATATTGCCTAAGTTTGAAGTATCATGGTTAATTAATTTGGCTTAAATAGTACTCAAATTTGTGTG  
GTGCTATATTGATTTTATCAAGGACTAATTTCCACCATACCCAAAGCATCTAGGAGACAC  
TCTGTCAATTTACATTTACAAATAATGGATGCAGAGAAATATAATCAATTTCTTGATTGCTCCTGGA  
TACAAATTATAGTCACTTTTATAATTTGAATAAACTATGATGAGGGAAGGAAGGCCATGTTTA  
TTACATTATAGGCAACTATCCCTTCTCAAAACATAACTTGATTTATGTTTTGTTTTATTTTTAG

Table 4

TAGGGAACCAAAAGCTTTTGGTCTGAAAACTCAGGTGCTGATTTGTCAGGTGAGCCTGAGA  
GAGTGCAGAGATACTGAGGTGAGCTTAGGGAGAAGAATTGTATGGAAGGGTGGAAATGAGG  
GTTGAGTCTTAAGTATGTGTCCAAGACCTTATCCTGAGAGTCTTCATGGAATAATCTAGAAAG  
GGCTGTAGAAGCAATCAAACCTCTAACTGCGCTCTAGACTTTGTCAATACTTTGCTTCGTAAG  
AATTAGGGATTTTCATATCAGAGTGATACCATGTTGCAATCTCTTTAGAGAAGAGAGAGCCTA  
GCAGGGAATAGGCTAGTGGAAGAAAAACATACTTGAGATGGTTACCCATTGGTCCCTGCAG  
GCATCTGGGCCACCCCTTTTCTGTAGGTATATATTCTGCCGTTGTGAAACAACATATATTATTA  
GATGTCAGCAAACTATAATCAGAAATAATTTTAAATTATAGTGGCAACTTGATTAATGAAGCTC  
TCATATACAACCTCACAAACAAAAAGAACTTTATTACGTGAAATAGTAGCATATGTCATTGG  
GTTTAAAAGCAACATGCCTGCAAAACATATGATAAAAAATACCTCTGTAAGGGTTTTTATTTGT  
CCACCTTCGATGGAAGGTAAACATGGCTGATCCAGCCAAGATGAAACAATAGCCCTTTGTC  
TCCTCAGAACAACCTATCTCCAACCTTTTGTCCACTGTTCTTACCCCAATTAACAAGAAAG  
CATGTGCTAATCCTTTTTTAAATTTTATCAACCTGCCCTGGCCTCCTTTCACTGTACTCCATTA  
TTCTTCTGTGATGTTCTACCTTCTTCACTTTTGTAGACCAGGGTGAGTTGGGAGCAGTTTG  
CCTACCTTCTTTTAGAATCTGGGGCTTATCTTTTAGTACAAGCCATTGAATAAGCCTCTTCTCT  
TTTTTGTCTAAACATTCACATCCTTGTGGATTCCCTGCATTGTTGTTTTATATAACATTT  
GATATTTGTTGTAGCTTGTATATGAACATAATTTCTTTAGAGGTAGTCACTGTTCTCTCCAGT  
ATGACCCAGGTTTTCTTGACTCTGAGTAATGCACCTTCTATAACTATCTAAATTTCTACTGAAG  
CTTTTTGGATTATGAGTATGCTGACTTTTACGATTGGCTGGTGCATGTTTAGACTTAAATGT  
CATATCCTTCATGTCTCAAAGCCAAAATAGTAACATCTCATCTCAGAACAGAGCTGTGACCAC  
ATGCCAATATATGTGTCAAAAGTCTACATATGTTACATTCTTGGAAAGTCTCCTTAAATGTTT  
CACAAAATGTCAACAAGCTTGTGTTTGTATTGATATTTCCGAGATTGGGCACATTTAAGACAG  
TAAACGGGAAAGGTGGTGAAGATGCTATAAGAAGATGCTGTATCTTGAGAATTGAAAAATGA  
GAATCTGACATGGTTTGAAAAATCATGAAGGGTATATATAAAGGATGCATGTGTAGGAGCCA  
TTAAATTCATAACAGTATGTGCCCTTCAGCGTTTTAATCTTATGAAGTGGTTAAGAGATAA  
GTCTTCGGAGTTGGACAAAAGGATTTGAATTTAGGTTCTGTGGATTATTATGGGTCCCTTGATA  
AATTCTCAAAGCCTTTTTTTTTGTTTCATCTCTAAAATAGGAATATAGGATTACCTACCACATTG  
ACTCGTAAGGACTATATGAGACCATGTATAGAAATGTTTAAACATAGTACCAGGCTTTACAAA  
GAACTCAATAAATGTTTACCATTATTGNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN  
NN  
NNNNNNNNNNNNNNNNNNNGGGGGGCCCTTAAATTTTTTAAAAAAAACCCCCCCCCCTC  
CCCGGAGCGNNNNNNNNNNNN

&gt;831

ACATGTTACTGGGTATTAATGCGTTCATAGTAGGGTATTAATCAGCAAGGTCCCC  
ATCCCAGAAAAATGTGCAGTTTGTTCATGGGAAAGATGCAGAGACAGTTTCAGTTAATATAC  
TAAGTGCTAAGATTGGGATGTGCACAAGAAGCTGGAGGTAAAAATCTGGAAACTGAACGT  
GAAGTCACCACTAGGCAAGCTGCCTGTAATTGAGCTTGCTTGTATATGACCAATCAACCTTT  
GCTTGTTGAAGGGTTAGTTATCTAGTTTCCCTCTTTCTTTTTTGGAAATTTGGTCTTTTAAGGT  
CTTGATAATCTTTCTAGTCTAGAGCATGTGAACAGAACAGAAGGAAAAATCAGGACTCAGTTTA  
CTTAATTTAAGCAAGCATTGGTTGCTGCAGTTCAGGGGAGGTTAAAGTTGCTGGGCTCCACT  
CTCTTATTAGCATGGATGCTTAAGAACTTCAGGGTTTGGAGGTGAGCTGAACAGCTGTTTTT  
GCACTCTN

&gt;832

ACCCTAGGCAGGGACAGTCAAGAAAACTTCATGGATCTGTAGTGTAAGCTAGGGA  
GAAAGAGGAAGAGATCCTGTTTGAATTTCTGTAAGTACGCTATCTCCAGATAATGCATGAACA  
GCCAGTAAAGATGAACGCAGATTATTGATGGAAGAACACACATGGAGAAGAGAAAAAGCAA  
GTCCACAGAGCTTTTTAACATACACTCCCTCACCCCTACCCCAAGCTTAGAAGGGCAGGAAC  
CTGCTGTCCAAAACAGGAAATATAGGAAATACCAGCTGAGAACTATCCACTTGACGTCCAT  
GAGCCAGCTGCCCTCTCACCTCACTCCTATTTTAAAGTCAGTGACACACAGTCATGCTTTC  
CTTTTCTGCACCTGAAGGAGTGATGTCACTCCAGACTGAGTCCTTATTAGAGGTGATGATAG  
AGTTATTTTATAGACCTGGGAATGGTCTAAAACATTTGCTCAGCCTAATCATTGGATCCTTC  
AAGGAAATGGATATTCTGATGCACATCCACCCGGTGTCTATCAAATGGAACCTTAGCTCT  
CAGGCAACTTGTAGTTTGAAGGCAGTGACAAATGAGGCCAAGAATGACTCCTGGCTCCTCCA  
CTCTGCCATCAGAGGCTGAGCCAGAGCCTCCACATCAGAATGCCCCCCCCGTCAGTGG  
AAGTGATCTCTAAGTAAAACTATTCTGCCCTCTCTAGCCTACTTTCTCTGGTCCGCCN

Table 4

&gt;833

ACTTTTTTTTTTTTTTTTTTTTTTTTTTTGGGTCAAGTAGAAATCAAACAGTCCTAATGGA  
GTTTCATATCTTATGGCATTATAGAAAGGCTTAGTTATGAACTATCTTGTTATTGTTACTATTA  
CATTGCCTGGCTCATATATATAAAGCATTAGAGAGACTGTTCCAATAACTCTCATTAAATTG  
GTGAAAAAATTAATATTGGTTTAGATACTTACCTAAATATTACTAGTTAAATCAAAGTAAAT  
GAGTCTGTATCTTTAAACTACTTGGCAGTAATAATTTTTAAAGTAGATTTTTATTGCTTTTTCT  
TGAACCTAACTAGTGTTTCATACAACACAGGTAGTTTTATTGTGCCTGGAATTAAGGAGTGAGA  
CACATTTGTAATGTTACAATCAACGCCTGTCCCATTTTTAAATCTCACAAGTTTTCTTCA  
TGATTAACACAATTCACAAAATAAGAAATGGTATTTGGTCATTCTCTGAGTTCAATCTGTGCTC  
TAGTAAATATACTTGTGAGGAAAAAGTAAAAAGGTCAAGAGTCTAATTCATTTTCAGTTTTTA  
AACTATANNNNNNN

&gt;834

ACTTTTTTTTTTTTTTTTTTTTTTTTTTTGGTTTTTATCTGACCACTTCCAGGAACAAA  
GCCAGGGCTCTCTGGGCACCTGAGTATCCATTCTCTTTGTATCATCCATTCCATGTCCAGAA  
CACATTCACATCCATGCTTATAGTTCCTCATTGCCTGAAGCCTGCTGGGTGGGGCATAGTAT  
GAATACTTGGCCTCATCATCCCCATTTACAGATGCATAAACAGAGGCCAGTCAGTATGCCT  
GCAGACTGTGGATAGAGCCCCGAAGCCTCAGGTTAGGCAGCTTGCATCCAGCTGTGAGTCCC  
AGCTAGGGGAACTGAGTCAGCCTCCATCACTCCGTGTCTCGGTTTTCTGACCTCTCAGGTG  
GGTATCATGATGCTGGCTTTGGAGGGTAGCTGTGAGTATTAATTACGCTGATGCAGGGCA  
GGTGAGCCCCCAAATTGGGGTTTAGCTTGCAGAGATTCTTGGCTNNN

&gt;835

ACTTTTTTTTTTTTTTTTTTTTTTTTTTTAATTCATGGAAGAAAAGTCCAGCTTA  
ATAACTTTAATGGAGAAAGAAGGAAGCAGTATAAATTTGTGGAGACTCCAATCACATGTCCTC  
CACTCTGCTACCCTGGGCCAAAATAAGGGAGGAGACACTCAGAGCCAGGTGTTCCCTTG  
ATGGGAATGTGATCAGGTGCGACATGGGCTCACAGCCTCACTGAGGCTGGATCTTTTTTTC  
TGTTCCCTCTGAGTCATGGAAGTGTTCAAAGGAATCATGAGGGTATTTCTTACTTTACTTA  
CNNNNNN

&gt;836

NNNNNNNATTGTAAAAACATGCCAAAGCANAGCAGAGGCTTTTATTGCAGATAAGGC  
TGTGTTTTCGCTCAGAGACCAATTGTGTAGATGCCTAGGACATAAATGGTGGGGATCGCTAT  
TGAAATTAATTAATTATTGTAAGTAGGACTCAGTTCTGTAACACATCTAATGATATGCTGCTC  
AGTTCTGTAACACATCTAATGGTATGTTTTGATACAGATGCATCCAAGAAGTCAGATTCAAAT  
CCGCTGACTGAAATACTTAAGTGTCCTACTAAAGTGGTCTTACTAAGGGTAAGAAGCTGAGG  
AAAGCAAGCTCTCTGCCTGCCTAGATTTGTGTGTGTACCCCAGCCTACCCTGCTCCCCCTA  
AAAGTTAAACTGAAATGATACTTTTGCAAATAACTTTGGGCAGATCCACGTAAGGCTG  
ATTTTAGATTTTCACTAATGTGTAAGTCTCTTTGCTAAGTACAGTGTTAAGACTGCAGTGAG  
TAATTAATATTTGAAATTGCTAGAGCTTCAGATAGTTTATACATTTTGGTGCTTGATAGATG  
CTTTGTAACTCTTTACAGGCTTAATATATGTTTTAGTGTTTTAAAGAAATACTAATTTGGGT  
GCTTTGGGGATGAAATTTTTCATTATGTCGTTTGGGATTGAGAACATTTACCATCACTAAGTC  
ATATTTATATACCTCTGCTAGGTGTTTGTAAGTTATACTTGGTACTTGAATTTGTTTATTTTGT  
GTTTAAAGAACATGGTTGGTGCGGGAGAGGTGGATGAAGACTTGAAGTTGAAACCAAGGA  
AGAATGTGAAAAATATGGCAAAGTTGGACAATGTGTGATATTTGAAGTAAGAGCGTTTTCTTT  
TGATGTTTATAACACAAGTTGTAATTGGCACATTACAAAACATTTTCTACAAACAGGACAGGG  
TATGCTATAAGTAACATTCTTACTGCAGAAGATGACAGGCGTTGGTTATTTGTACTTCTCTTG  
CTCAATTATTACAGTTTTTAAACATAAAGACAATGATTTCAAGTTTTATTGATGAAGAAACAGG  
AATGCTTCATGATTGAGGATCAGTATGATGACTGAAGACCTTGATTCTAGCGTGCTCAGTAG  
TTAGTTCTTAGACATGCCTTTGGTTTCAGTCATTTGGTGAGTATTTAGTGCCTCTCACATG  
CACTGCACTGTGCGGAGAGCACTTGGATTACAGGAAGCATGCTCTGTACTCTCAGTGGTGT  
GTTCAAGTTGAAGAAACACATAAAATAACTGAAAGATATTCAGTTACTAGACTAGGTAGTATTG  
ACTAAGTTCAGGAGTTGAGAAAAGGATTAGATCAGTGAAAAAATAGACTGCCTTGTGAGCAA  
TAGCAGATATGGGCTGCGCTTTGAAACGAACAGGTGGGATTTGCAGGGAAGGGTATTCTGA  
TTGGGATAATGGCTCGTAGGAGACAGTGAAGATCAGGACTACCAAAATGGAATGGATGGGC  
CTGTTGGGGATTAGCAGAAAGTGCTTAGTGGGTGGAATTACAGAGGGCTAGGAAAGCTAGA  
CAGACTAGTCAAATGAGACCTGATGTGAAAGGCCACTAGGGCACCAGCCTTTTTAATCTGA  
AAGCTCTGCTTCTCTGTTCTTTATCCTGTTGCTGGTTGTTGACCACATAATTATTTGTTTAC  
GTCATCAGCTGGCACAGGGCCTTTATGAGGTCAGAGACTGCCTAGCCCTGTGTTCTGGCA

Table 4

CCTAACAAATGCCTGTCATAAAAAACAGGCATTACGTACGTTTTTATGATGAACAAATTATACT  
TATTTCTTGGTATTTGACAACTACTTGACTGTATATGATGATAATTAGAAATATCCACTCTGAG  
AAATCATTTAAAAAGAGAAAACTCATTCAATGCAATCTCAAATGCCTTTACTCATCACGCTCTCA  
TTTTCTTCCAGATTCTGGTGCCCTGATGATGAAGCAGTACGGATATTTTAGAATTTGAGA  
GAGTTGAATCAGCAATTAAAGCGGTTGTTGACTTGAATGGGAGGTATTTGGTGGACGGGTG  
GTAAAAGCATGTTTCTACAATTTGGACAAATTCAGGGTCTTGGATTGGCAGAACAAAGTTAAG  
GGCGAATTCGAAGCTTACGTAGAACAACAACTCATCTCAGAAGAGGATCTGAATAGCGCCGT  
CGACCATCATCATCATCATTCATTGAGTTTAAACGGTCTCC

&gt;837

ACTTTTTTTTTTTTTTTTTTTTTTGCAAACTTTAATAGGTTTTCTTAGCTTGACAACT  
CATTCTCTATATTCACGAACATCTCCTGACTTGTTCTTTCAGTGGAGATACCCTTTTCTAGCC  
AGAGTTGGCAAAAGTAGCAATAGCATGCATTGGCTTGTGAGAGGCCCTGGGTGAGCCTTT  
GTTGCATAAAGTAGGAGGTCTGTTATTGTTCTTGGTAGCATATGCCTTCATTATAAGTTTGCCT  
CTTTGAAAGAATATTCAAAGACCAACACAAAAGAGAACATTTCCAGATCCAAGAGAGTGTATG  
TAGAAACAGTGACAAGTTAGAAAATCAACTTAGGTATCAGATAGCAGCCACAAAATATGTTCT  
GAGGAAAAATTCATAGCAATTTATAACAGCTGAGAAAAAGAGGGAGGATGCGGGAAGGTAG  
ATTTTGTGCAAACTTACTAGACTAAGGATNTATTGCATATTTTTACTAATTAATGTTGGGGA  
TGNNN

&gt;838

&gt;839

ACAGACAAGGGGGCGACTGGCATGTGGTTTGTCTGGTCTTGTAGTCGGTTTGGGA  
ATTTTCTAAGTCAGGGTGGGGTGGGGGACTGTGCACGAGTCATGTGCAGACTGGAACCCA  
TCTCCCCCTCGGTCTGCAAGTTAAACAATTGGGTTGCTTCTCAGCATCTGCCAATGTCT  
CTTACTCAATCTTGGATCAAAGGGCGTTGGAGGAGGAGGCTGGGAGGGAAATCCAGACAG  
TTCTCCGCTCTGACATCAGGTCCAGCTGTTAGCATCGTGCTGTGGGTCCCTGAACAAGAA  
GCAAAGTCAGGACTGGTTTGGCCAGGTAGGTGAGGATCCAGTGTGGGTGATTCTGATCCA  
TGCAGCCCTTAGAGGCGACACAGACGTGAACCTGGACATTCTAGGAAGAAAGAGCCGACTGC  
CGGGTGACCTGTCTAGTTACATCCACTACCAATTTCCCTCCTCGTTCCCTATTCTTAGAAATA  
AGACTCTGACGCTCTCTTTATACAGGCTAGTCCCCTATAGGCATGTCATGGTGATTATTTGC  
AATCCTCCTGACTTTCCTAAGAAGAGATCAGACTTANN

&gt;840

&gt;841

NNNNGATAACAGAGTTTATATACCTCCTGTCCCCTCTGTACACTTAAAAATGTATGT  
GCTGTTCTAATGCTACTTATTATTATTCCTTCTTGTAGAATGTATCACACTAAAAGTGTTT  
AATCCTGACTATAACAATTATTTGTTAACTATTAAAGGGGTAATTATACTCTAAGCTTCCAGTT  
TTCAGTTAAAACAAAAATGATTAATATGCCTATACAGAACTTTCTCCAGCACTTGGTAAGTATT  
TTTTAAAGTGAAGTCTATTCAGACTGCAACCAGTAACTATTTATGCTTATAATTTTTCTCAGG  
ATGGATTTCTGTTCCCTTTGTTGCATTGTTTGTGTTTATTTTATGTGATCTTTTTTAGCTACAAG  
GTGGGAAAATGACAGTGGTTAGAGATAAGAAGCACATGAATGGAAAGTAAATATGTGGAGA  
TTTTTGGCCACTCTTGTAACTACTATCTGAAGTAGTTTTAAATANN

&gt;842

ACTAGCTGTTTGGGAACTGAGGATCATAGCTCACTGCAACCTCCACCTCACAGGCT  
CAAGTGATCCTCCCACCACAGCTTCCAAATAGCTGGGACCACAGGTGCAAGCCACCACACT  
TATTAATGTAGATTTCTTTGTAGATGTAGATTTCTTTTACAAAGTGACAGCTTTTCAGAGCTA  
GTCCTATGTCTGCAGTTTCTCAGAATAACCAGCTCAAAATATGCCAGAGAAGTATATTTTGGG  
GTGGCATATTCTAGTCTCCTCCAGTCATATTTGGGGTGGTGTGCTGAGCCCCAACAAAGA  
TAGGTTTCATTTTTGAAAATTGCTCTTCCAGTCCCCTGTTTATCTCATAAGCCCAGGAATCA  
CCACCTGTTGATTTCTAGGCATCTTCTTGTCTAGGGTAGTAGATGTTTGGTGGACTAGAAA  
TGCAGGGGAGAAAAGGAAGGCTTGGTGATGTCAAGGATTTTAAAAGCAAACCTATCTCAC  
TGTGTTCTCTCAATAGTCACCCTCTGTGCTGCTCATTCCATGAGGCTTAAAGCTGATAACTGG  
GGGACAAAAGGGTTAGGGTAACAATTTATTTTGTCTCCTGACAATACACATAACTTTTCT  
GCTGTGCTTGGGGAAAATATACTGTGGATTAATTCTGACTCAATTGTTTGGAAANN

&gt;843

ACTTTTTTTTTTTTTTTTTTGCCTATTAATTGATTAGGAAAAATAGGTAGACCTGAG  
TGAAAGTAGAAAAGAACCAATTCTGGTAAAAATTCTGAAAGTAGAAAAGAACCTTTAGCTTTAA  
AGGTATGTCTTAATAGAGCAGTGCTAAGACAGGTGGTTAGGTATGTGAATGCATGCCACTTA

Table 4

GAAAAGAATATGAAGGAGAAGGGACCAAGAAGGCAGATACATTGCCCTGATAAAGAAGTC  
ATTTTTCTCTCACCTTTACATAAATATCAGCCACTAAAAATCTAGGAGCACAAATAATGAAAGC  
GAACCCTGTTGCTCTGNNNNNNNN

&gt;844

ACAAGAGAACGGACGGCACTTACTGAGCCCATCGCAAATGTCAGGCTCTGTGCTAT  
ACTTACATATCCCATAATCTTCAAGACCCCTCAAGACCCACAAAGTAACACAAAGCAGGAA  
ACTAACTCAGATTTACTTGCCAAAGGTCACACAGTTAATACATGGTGGAATCAGGACTCAAAA  
TCAGGCCTGTGTGACTCCAAAGTCCAGTGCTCTCTCCACTTTACCAGGTAACCTTCATAATA  
CCGGATTGGAAATCAAACCTGTCCTTACTTTCTATGTCCCTGAGTGAGTCACAACCTCTCTC  
AACCAGCNNNNNNNNNN

&gt;845

ACCAGGAAATTGGTTTGATTGCCATAGGCTAACCTTGGACCAATCACTGTGGCCAAA  
TACATGAGGATCCTTATTGGCTCCTTCTACTAGCAACAGATGGTTTAGAGAACAGTGTATCAC  
AGAGAAATGGGGATCACTATTATAGGCAGATTGAATAATAAATGTTCACTCTACTACTCAATA  
AATATTTGTTGAACAAATCAAAGCTGATCCCTTTTTTCAAAATTTTTAATGTGACTCTTAGGGG  
ATGGTGGATCCAGGAGAGAAGATTAGTGCCCACTGAAAAGAGAATTTGGTGAGGAAGCTC  
TCAACTCCTTACAGAAAACCAAGTGCTGAGAAGAGAGAAATAGAGGAAAAGTTGCACAAACTC  
TTCAACCAAGACCACCTAGTGATATATAAGGGATATGTTGATGATCCTCGAAACACTGATAAT  
GCCTGGATGGAACAGAAGCTGGGAACACCATGACGAAACAGGTGAGATAATGGATAATC  
TTATGCTAGAAGCTGGAGATGCACACTGGAGCGAGGACTCTGAAGCTGACTGCCATGCGTT  
GTAGCTGATGGTCTCCGTGTAAGCCAAAGGCCACAGAGGAGCATATACTGAAAAGAAGGC  
AGTATCACAGAATTTATACTATAAAAAGGGCAGGGTAGGCCACTTGGCCTATTTACTTTCAA  
ACAATTTGCATTTAGAGTGTTTCGCATCAGAATAACATGAGTAAGATGAACACTGGAACACAAAA  
TTTTGAGCTCTTTGGTCAAAAGGAATATAAGTAATCATATTTGTATGTATTCGATTTAAGCAT  
GGCTTAAATTAATTTAAACAACATAATGCTCTTTGAAGAATCATAATCAGAATAAAGATAAATT  
CTTGATCAGCTANNNNNNNNNNNNNNNNNNNNNNNNNNNNNNGGGGGCCCCCCCCGGGGGGGA  
CCCCCAATCCCCCTTAGGGGGGGTTTTTCCCCCCCCCGGGGCCGNNNNNN

&gt;846

ACTTTACTTATTTATTTATTTATTTATTTGTTTTACTATTTACAAAAACAAAATGTAGCTT  
TCTTAAATTTGTTAGTTAAATGTTTTCTTTGTTTTCCCAATAAAATGTAAAGTTTAAATGTGA  
TGGCTAAACTCCTAAGGGGATAAGGAGGCGCTAGGAGAATAGGCAGGTTGGAAAAGGGTAG  
TCGGGACTTGTCCAGATTCTTGTGTGGTAGTCTGGGTAGTCTGTATATTTACCATATGGGT  
ACAAGACCT  
TGTGAGCATTTATTAATTCGCAGTTGATGGTGCATAGTTTGCAGGAGTGGGTAAAGGATATGT  
TACTTTGTAAGTANN

&gt;847

&gt;848

GGATGTTTTCTTCAGCTGTATGATTCTATCATACTTGAAACTGATGAAAAATTTAGTAT  
CCTATGTCTTTTTATAGATCTTATGATTTATCAAGGGGATTTATATGTCTTATTCTCCATATA  
GTCTAAAAAATCACATTGAAATTTCTAGTGATAGGTTGACTACACATCATTTGTTGCCAAAGT  
CATTACCTCAAGCTTTGTAAATTTCTCTAGATAAAAGGAGACTTGTGATTAGAGAACTGAATTT  
CAGCCATTTAAACCTGTAGACATAGAAAACAACCCAGTGGTCAAACCTGAGCTTCAAGAGGA  
AGCCCAAGTCCTCCTGTTTCCTGAATGGCTTTTCCACTCCAATTCATCACATATCTGCTAAGA  
CACATTTGCAGGTAGAATCCATAATAATATCTGTTATTTATGATCTACCTAATATTTAAAGGAG  
AAGAAAAGAAGTAGCCTTCGTTGCAGCCAACATCCAACAATAAGTCCCACCTTAATGACAT  
TTCAAAGCCTTCAGATCACTTCTGACATGTCTGTCCAATATCATTCCAATCAATAGTCTTGCAT  
TTAAATAGGTTGTTAACTCGGTGGTATTGAGACTGTAACCTTAATGGCTCAGGTCTTTTAGC  
TTTGTTCTTTGTCATAATCTGCACTCCTGGCCAGACTGACCAAACCTGGGCTGCAAAGGAAA  
GAGATTTGAATTGATCACCAATGTATGAAAAATACAGAACCCATGTCTGGCTCCTAACTCCT  
GGTAATAATTCCCGCCATCGTAGCAAGTGTCCCATGCATTGAGATAAAGCAGTCATAATTTAT  
GGTGTATTTTACCGAATTGGTCCAGCATATTGGTCCCTACAAGGCTCAGCCAAGAAATGTATC  
TGGTGCCTTAACTACAGATTTCTGGTGACTCTTAAACTGGTTTACAAAGATTGAGAAAACA  
ATTAGATTGAAGATTTTGTCTCAAGTAGACCTGCATTCATAGCTAGAGTGATGAGATTTTC  
AGCACTGTAGAATTTACACAGGCACAAGCATAACACCAGTACTTTAGCAGCCGCCAACAGT  
TGCATCTATTAACGTTTTGAGAAATGACATTGACTTATGCACATTTAAGCAATCAACAATGTT  
TTAGAAGTCCAGGTAACATATAAAATATATTCAGACCTAGTTTTACTTTCCATATTGTTGCTCC



Table 4

AAAGTAAGGTAAATAGGAGTTTTAGTTGTAAGTGGCCTGTAAGATTTTTAAATTACACAGTGC  
ATGACAACAACTAAAGCCAACCTCAGTCCTTCTCTTGGCATTGTGAGTTGAGGACCTTTAGCC  
AACTGTTAGCTCATCTGACTATCTGTCTAGACCAAGGGTCGGCAAAGTTTTAGTAAAGACC  
CACAGAGTACATATTTTGGAGTTTGTGTTGTCTGTACCAACAGACAGACATGGTGTCTGTCC  
CAACTACCCAACCTCTGCCATTGTAGCACTAAAGCAGCCATAGACAAGATGTAAACAGAAGAG  
CATGGCTGTGTTCCAGTAAACCTTTATTTACAGGCCAGGCATGGTGGCTCATGCCTGTAATC  
CCAGCACTCTGGGAGGCTGAGGCTGACAGATCATCTGAGGTTAGGAGTTTGGGACCAGCCT  
GGTCAACATAGTGAACCCCATCTCTACTAAAAGTACAAAATTAGCCAGGCATGAN

&gt;849

CGGCCGAGGTACAAAAGTTCTGAAATAACACTATAGGCTTAAGGAATAAGGGACCA  
GAAGTAGCCTGGTAGCCAGTGTATTTCTGGCTTTATACATTCCTTAGGAAAAAAAAAACTTT  
ATAGACGTATTTAAGTAGAATTAAGGTTTACACAAATGATTTTTGAGAGAGAGAGTCCCTAG  
GACCTAAACATTGTTCTACGGAGATAGGCTCAACACGCAGATATTTTGGAGCAGCATGGT  
CTGCAGAAGTAGGAGGAGGTGACCAGATGTGATGGATTATGCCTGTAATTCAGCATTTTGG  
GAGGCTGAGGTAGAAGGATTACTTGAGCCAGGAGTGTGAGACCAGCCTGGACAAAATAGC  
AAGACATCATCTCTCAAAAAAATAAAGAATTAGTTTGGCACACAGGCCACGGCCATGACAA  
GGGTGACTTGCGGTCTGTTTAAATCACAGGAAACAGCGTATGGCCATGATTACTGGCCGTCG  
TTTTACACACAGGAAACAGCNN

&gt;850

NNNACATTATCCACATTTAACACCTTTTTCAGTTGATGGCTGATTATCTGATTTTGCAA  
ATGGTGCCTCACTGTGGGGATCCCCTCCTCTATTCTCAGATGTGGTGTGATGGTCCCCTCGTTT  
TTCGACGTGCCTCCCGCTGTGGGCTGCAGTGTCAATCTCGGAAGCACATTTTCAGAA  
GTCTTTCTATCTTTTGTTCATAATCTTTGAGTAGTCTCTTCACTTCTTGTGACTCTTCTGTGA  
AGGCAGCTCTTCACACAGCTCCCTCAGGACTTCCATGTGGTGATTAAGCTGGTACAGGCAG  
CCTTCCTCAGAAAAGCAGGCCTCATGTTCTTTGATGAGACCCTTGGTCCTTCTCTACGGAT  
AAGTTTCTTTCTTTATTTATTTGCTTTTCAAGTTTTAAATATTGTCACTAAGCTTTCTTTTTC  
AATATCTATTTTAGTTGTTGAACATATAAAGACAGTTTCATGATGAAGAGACTCCCATTGGCA  
CAGACATCTCTACTCTTTTCTTCTAAAGACATCTTTATGTCCCTCAGTTACATTATTTTATGTT  
TTCAACAGCTTTCAAATACTTGGCCAGACTTTTTGTATTAGAAATTATTAGTGCTTCTTGTGT  
TTTGAAATGAGTTCACCGGGGCTCTCTCTTTGCCCCAGTAAGTGTGAGCCCTCATCATATA  
TGATTCAAGTTCCTTCTGGGATTCTTCCATCTTCAGCCTGATGTCCAAATCTGGTGAACGTC  
AGTTAAGTTCCTCAACGCTGCAATGAGTTTTACCACATTGATCTGGACTTTCTCTTTAGCTTCT  
TGAATCTTTGCCTGAAGCCAGTTGTGAGAACATGTTGAAAGGACTCCTGGCTTGAAATATT  
TGTATATCCATTTGTAACATATCTTCACTTCTTGCCATAAGCTTTTCATCAAACATAGAGCCCT  
TGGAATAAGATGCTTCAAAGATTCTTCCATTGAGGTGTCCACATCATCTTGATCCAAAACAG  
ATTTGGCTTCTGCCTCCAGATTTCCACTTGTCCAATGAGTTTTCAACATCTTTAGCCACTTT  
TAGTTGCCCTGTGAATCTTCATTTTCTTTTTCATGTTTCTCTCCAGCCTTTATATTTGATTAT  
AATTTTCAGGAAGTTCTACTGACATATCTGTTGAAAACCTCAACAGTTGCTTTCTCTTTTAGA  
TAGAATATTTCCAGAATTGTCAAAGTGGGCTGATCCTGTTTTTTATCATCAGTGGCAGGTT  
CATTTCAAGTTGAGTTTTGAAACCAACTTTCTCCATCTTTATTCAGCCTTCTCAGTTCTTTA  
GAAATAGATGATCCAACCACATCATTGCTGACTTCGACTAAGAAATTTCTGCTTCATTTAA  
GTAGCGTGTCTAGATTCAGTGGGCTAGTGTCTCAAAGGGTACCTCTTTAATTTCTTCTTCT  
TTTGCTCCTCAAAGCAAGCCCTTAGTAAGCGAAGGTTTTCCACATAAGTAGCCCAACATGC  
CAGCACTTTTTGTAGAGTGGACTTCACATTATATATTTTTTTCTATACATACAAACATCAGAT  
TTCACCATCATATACTGTTTATTAATATTCTGACATTCTCCAGCCAAATCTTATAAATTTCTCC  
ACATTTTGAAGAAGTATCAAGTCGAGCTAGGAATCTTTTTCTTCAATAAATTTATGCCAG  
TCTTCCAGCAATAATTCACAGATTCTCTGCTCCCATATTTAATGTTCCAAATATCCAATTTTG  
ATTTCACTTCATCTACCAAACCAAGAACTAAGCACTTGTAGTAATGAAATCTAGAAGTAGAA  
TAAATTTTTCTCCAAATGTTGTTGATTGCTCTTTTCAATTTCTCCAATTTGTTAGGTGGTAC  
CAATGGCAAGTGATTTTCATCCTTATTTTCAAAGGTAAGGAGAATGTTTGAATGATGCTCAA  
TCTATCCATCAGGCTCTTGAATAAAGTCATTTTCTTGTATCAGAGTCACGGCTTGAGAGTG  
ATCCTGGGAGGCTGACAAATCTTCATCCATAAGCTCTTCTACCTCCTGGAGCCAAGCTTCAG  
TTTGATGGAGGGGTGGGGCAAGGCATAATTTAGCTTTATTTTCCATGCATTATCTGGTGA  
TCGAGGCCATCCAGGCTTCTCTCAACTGTAATGATCCTTGTCCAGCTCATCCAGATCCCG  
TTTTATTGACAGGACATCCAAAAGGACTTTTTTTCTTCAATGAATGACTCCATAAAGGACAG  
CAGGCTATTACTTTTTAAAGTAGGTATCATTCTCTGAATCCTTAGCAACTTCTGTAGTTTT

Table 4

TCCTTTTGCAGAGTTAACCAGCCCATAGCATCTTTCACCTTTCCCTGAGCCTCCTCTCCAGTC  
CCAGGGGCATCTTTGGAATACTGCAGAACTGTGCCACATAGGTCATGATGGACTTTTCATC  
AGGATCAACAACATCCACATCTTCTGGTTCCAGCAATCTGGGGATTTTAAATTCTTGTCTGC  
AATTCTGAAGGCCTCTCTCAGATTGTCTTGTGGATCTATGCTTCACACTCTTCATGTCAATT  
AGGTCTGGTCGCAAGGCATGAATGATGGCCAAAAAAGCCATCCCATTTCTCCAACCTTGACTT  
AAAATCGGTACATTGACAGACTCATAGGTGGCGCATTGTTCTGAGCCCACAAAAGAAGG  
GCCTTTCTTGCAGACATTTGCCATCTTGTCTTGCACCTTAGAGCATTCTTAGCTGGAGGACTT  
GAGGCAGGAGATGAGTCAACCACTCACATCATCCAGGGAAGGCTGATTGTAATTGCAAG  
AAAGAGTCTGGGCAAGCTTCTCAATATGAAAGTGCAGGATAATTGTCCAAATTAGGCCAAGG  
ATAATGGATGGGTTTCCATCAATGATATCAGTAACATGAATATTTATTAGCTTAATTGATCGGT  
TTCTTAGGAATGTCAAGGCATGTTCTATATTGATTCTACACTGGAAGGTATTAGATCCTTTATC  
CCGAGGCCAAGTGTGCCCAGAAAGTACTTCTAGCAGATCCAGGAGGACATGCCCTTTTAA  
TGTCTGTGAATAGGTGGATATAACTGAGGGAGAAGTGTGCCTGGCCAACCTGTGAGTTTATC  
CAGCACGTGAAGGCTTTCTTCTGGGTGTCTTCTGTTGAGCTTGAATGAAATATGGAGATC  
GTCGATGCCCCAGGAACCTGTTTCATCTTGGGTGGGAAGCTCAGGACTAGATGCCATTCCTT  
GACTCAATGGAGATTATCATGTCCATCTCAGTTGAAGAAGTGAACGTCCGCCCGGCCGAG  
GGCAAGGGCGCGGGCCGGGGCCGAGGTGCGCGCCCCGCTTGCCTGGCTCTCTGG  
ATCGCGCCTTTTGTCTCGCTCTCCCTCTCGCTTTTTCAGGTCCGGCCGAAGGCTCTGGGCGC  
AGCTGAGCTCGTGCC

&gt;851

ACCTATATTCTATGCAAAATTTATAAAATAATCCTTGAACATGAAAACCTCATCTTAAAA  
TTACACGAATTAAGTAAGCATGCAATACAGACACTTGCAGGATGCCTGGCCTCTGGGAAGTG  
CTCCTGTCTCTGTGTGAATGTAGAAGTGAGGCTCAAACCTCTCTTAGGAAAATTTCCCTTC  
CCACTGCCCATCCATTTCTGCTGACTCAACAATTCCCACAGAGGAAATGGGAATAGTATCAT  
CAACTAGCAGTCCTCCCATGCCAACAGATTTGGGGTCTTATCTAAGTGTTTCTGCAGCCGG  
TCTTCCCTTCTGACTTCCCGTATTGGCTCGTTAAATGATTAGCTGGCAATACAGGTATGTT  
TGGACTGCTATTGGTGCTGAGTTTAATCTTCACTGTGTTTGTGAAAGGAAATATTCCATA  
AAAGCTTTGGTGTCACTTAAAAAAAACAACCTATATGATTGAAAGAAATTTGAGATATTTT  
GTTTCAACAAAAACCACTGAGTTTATGTCTAAGAAGAAAATTCAATAAGCATTATCAAGTGCT  
TAGGATATGCTGCAATGTATGT

&gt;852

ACTAGCAGATGATGGCACAGTGACAGCTGGGAGGGATGGGATGTGCTTGCTTCATG  
TCCCCTCCCCTCTGCCTGCCTCAACCTACACAGTCCTGTCTGGTGACGTGCCAAAGTCCTTC  
CTGCCTTGCAGAGAGGCCTCTCTTCGTGCAACATGGGCCTCAGGAAAGACAGCCTGAATGC  
CACTACCCAGGCTTGTGGAAGGTTCTGCATCAGTGTGGCATTGTTGCGATAGCCCTCAGTT  
GATGCTTGTGTTGGTGTGGGAGGCAGGAACCTACTTAGGAGGGTGGAGGGGTGAGAATG  
AGAGAGGACTTCCCCTGAGCCACCCAGCTGTGGTCACCTGATGGCCCGGATGGCTACATAA  
ATCCTGGGAGATCCGTTGTCTCATAACCAGAGTGAGCTGGGCTCCAGACCAGCCCTATGG  
GAAGAN

&gt;853

NNNCACATACATACACACTAACGCTCAGCATAACTTTCCATTACACTTAGACAATGA  
CTTGTGGAGGAAAAACAAGGATAAACAAGAGTCTCAAGAACTTAAGAAAAACATCAGAGTTG  
ATTATTTAGCACTTTCTCAGGATTCTAAGGCAATAAGCCTAATTCAAAACGTGAAATTGTTCTC  
TATTTCCATTAGTCATTAATGAGATAAATGACAAGCTATTGCTGCTTCTCCATTCTGTTTTC  
AAAGAACATTACAAAAATAAACAGTGTGTTCTCTAACAGTTCTAAAAACAGTTTGAN

&gt;854

ACCAGAAGCAAGGCAGTTTAGGGACAAAGGGCATGAGCTTAGAGTCAGATTTCTTA  
GGTTGAGATCCAAGCATCACTACTTATTTTCTTAAAGAACTTGGGCATCTGTAAACCAGGGAT  
AATATCTTCTTCAAAGGGCTTGTGTGAAGATTCAACAAGGTAATACATATAAACGTCACAGAN  
N

&gt;855

&gt;856

NCCTCAAGTGATCCAGCCACTACAGCCTCCCTAAATGCTGAGATTACAGGCAGGTA  
CTTCCACGCCAGCCCACTAAATTCCTTCTTAACCTCTCAAGTATTTTATTTCCAGTGTGTTT  
TTCAGAAATGTAAGTAAATAGTGAATTCAGGGTGTATAAGGAAGCTTGAATGTAACAAGG  
CATATTGAAAAACCTTTGTACAGAATACAGCATATGAATACAACAACCTAGCATCAAACCT

846  
Table 4

AGTGTATATAAGAATGGCTAAGTGACCATTAGTCATGTGAAAAGCTTAACAACCTATTAAGCTC  
TTATTTTCTTACTAAAAACAATTTTAAGTTCTTTCAAGGCTATAGTTACGCTTTACATAAGAG  
GCCCTATTACCCACTAATTCTTAAAAATTTCTACCTACTTAAAAATTTCTTTAGACATTTCCAAAG  
GTTAGTAAAGGAAGACATAAGATATGCTTACTTAAATCCTTGCTGGTTCCATGCCTGGCCATA  
CATTCCATATGCAGGAACCTACCCACCANN

&gt;857

ACCATGAAATAGGACCTTCTACGGTTTAAAATAAATGTTTGTTTTTCTAGCCCTGT  
AGGTCAATGAATGCCTGACTCCAGTGACAGACCATAATTATCCAAATCTCTCATTTATGAATA  
TGGAATATAAATATGCTAAATTGATTATGTCATGAATAGACTTCTTTTTGCATAACAATGTTT  
GGAGTTTCTCACCTTTCTCCTAGCCTTCTTTTTCTTCCTTAAATGTAGCCTGGAGGATTCTTA  
TCTATTCCATANN

&gt;858

NNNNAGTCGACCACGCGTCCGGTTTTGTAGCAAAGTTTTCCACACAGGTCTTATACA  
TGTCCTGTAAAAGGTATTCCTGGATTTATATATTTTTAGATTGCTATTGGTTCCCATCTTAGT  
TAACTAATTGATTATTGTTGGAATATAAACATATTTGAATCTTTTGTGTTACATACCCCTTATT  
GATGATAAATTCTGCTATTTCTTTCTTAACTGAGAATTCCTCCAATTTAAAAACAAAGCCTTTC  
AATGAATCCCTCAGCAAATGGAGACTGAGCAAACACATATAAGCTACAGCCAATAGGTCAGG  
AGCCAGGTGGTAGAATAGACTCTTTTTTCAAAGATGGCTCTGGCGTCTCCTTAAATAGTAGA  
CATCCATTTTTCTGGAGTGGTACATATGCAGCTCTTGCTAGAATTAGGTGCCTGGTCTAGAG  
CTACTACCTCTGCCAGAGTCTTCTGACCCTGTGACAGAAGATTTCTGTGTGTGCTCCATGGG  
GAAGACTCTGCAGCCCCAATCTAAGCTGTTATTTCCATTTGGTCAAACAGTATTTTCAGTGGCAT  
CTGGTCTGGCATGAGAAATCAATTCAGTCAGGTCTCTTCTGGAAGAATATTCTAATTGATTAC  
AGGTCCCTATAGTTGTTCTTTTGGGTTTTGATTTTTCAAATGACCAAGTCCCTTATATGGGA  
AGGGGCTGGGGCCTGACTTTTGCAGTGGGCCTGAGTTGTGGTATGCATTGCATCACTCTTAT  
TGTTTCTGAACCTTTCTTGACCACATTCAGATTTCACTCTGGGATGTTGTAACAAGTCCATGTTT  
GTTGCAACATGGGGTAAGGTTATTACGAAGGAGAGACACAGCGATCAGTGTATAAATCCAAT  
CTATATTGATGGTCTGGAGAAGAACTCACATTTGTACCACAAGAATCATCTTCTTGTACTAT  
AACCCTTGAGTAGATGACACCTGCCTTTGGCAAGACTTGGAGGAGAGACACATGCTGGTCA  
TTTGACCAATTTCCAGTCTCCTACCTGGGACCCTGGGGCTATTCCCTTACTTTTTGTCAATAGG  
CATTAAATAGTCAAATAGTGGGATAGAGCCAACAGGTATGATTATAATATATATGTTGTATTTGA  
AAATTAGGCTCTGAAAAGGAGATATTAATGTGGTGACTTATGTATTTTCACTATTTAATATGA  
AGTGACCTTATCTCTCCAAATGTAGCCACTGTTAACTGCTATTTATGTATTATCACTGAGTA  
TATTACTATCTTTGATTTTTCTACAAAGATTTATCAGCACAATTGTGAGAAATCTTCAAACCTT  
TTAGGGTTCCAATTAAGTTGGTAATAATGATGCACTTGGCAATTGTTTATAAAGGGATCATTTT  
AGAAAAAGGAGGAAAGTATTTTTTCCCTCTTCAAAGTGTGACTTGTAGTCTTCACTGGATT  
TTTTTTTTCTGTTTAAACCCAGTAGGGCTTTGTTCTCAATGCAGAATCTCCTGTGACCCTTGA  
CATTTTAAAGGGATTAATTTTACAAGTCCCATTAAATAAACTTGTTCCTTCTTACTCTATACTAA  
TACCTTCTTTTCTTATTATACAGCTCATACATACCCATATCTAAAATTATTTTTGTTCAAACCTC  
CAATTATCTTATAGGATTTAAGATGCTATTTAATTGGGTAAGTCTGGCCACACCAAGATAGG  
TGATAAAATGGTGAACCTCAGAGTTAAACAGGCTACCCTGTTGAGGGTGATCTATTTGGAA  
AGGAAAAGAAGGTTATGATAGGCTGTGAAAACCTTGGAAAGGAAGTTAAGTCAGATGGGATGTT  
TGAGGGTGAGGGAAAAGAAAGAATATGTTTGGTAAGAGCAAAGGAGAGGCCATTCTATAACT  
TTAGGTGAGAGCTGATATCTATCAGGGTTTGAATATAGCTCCTACAAATCATTCTGCAATAAT  
TCATCTACACGTTTGAGCACTCCAACTAAATTTTAAATTACCTCAAAGGTAGGGACTTGATCTT  
ACTCAATATTGTATCCCAAGACTTGCTGGGGGCACTGGCTCACAACTGTAATCCAGCACTT  
TAGGAGGCCGAGGTGGGAGGATCAGTTGAGCCCAGGAATTCAAGACCAGCCTGGGCAACA  
TAGTGAGACCCATCTGTACCAAAAAAAAAAAAAAAAAANN

&gt;859

ACTGGCTGGACTTGAGGTGGTTTTAAGTTGGCAGCTACATCGAAGGACTTCTGAAAA  
GCTCAAGTGACAGTTACACCTTTGCACTCTCCACATTCAGCTGGCCTTTTCCCTCAAACATG  
GATAATCTTCAAACCTCCCTGAACAGGTGGAATGCGTCTTTCTCTAAGCCAAGTTCTCAGT  
CCACATTAGTCCATCTGGCTACAGAATTGACGTTTTGTGGCCACAATCCTACTAGAAATGAC  
CTTTGGGTAATATCCTTATCTTGTGATCTAGTTAGGGTCAAGTAAAACGAAATAGGTTTTCA  
ATCAAATACTAAGAAGCTCACAAATGGAATTTAGGTGAAAACACACCAAAGTAGTATTAAG  
TTCAAATTCAAAAGAAATACTTGCAATTAAGAAAGAAAGCCATGCATGGTGGCTCGCTATGC

847  
Table 4

CTGTAGTCCCAACAATTCGAGGTGGGAGGATTGCCTGAGCCTGGGAGGTGAGATTGCAGT  
GAGCCGAGATCGTGCCACTGT

>860

ACTTTATGCAGAAGGAAAGCAATTGCAGATGGAAAAAGCTGAGATGCTATAAGGAAT  
TACGGATTTTATAAAGAGATCACCATGTGGGTGAATGTAAATATAGATGAACAATGAAGCATA  
AACAAAATTTTAAATATCTTACAGGCTAAAATATTTAGAAATGAAAGACAACAATAGCATATAAG  
TTAAGAAAGGGGGTAAAAAGAATCAAGAGCATTCTAAGGTCCTTATATTACCTGGAAGGAGA  
GTAAAGATAATGACTATCTTCAGGCTGATAAATTAACAATGTATGCTGCCATTN

>861

CGTCCGAAGAGGTTGATAGTTTATGGAAAGAATTGGTCCGCTCTCCAAAAGGTGCT  
GGGATTACAGGCGTGAGCCACAGCACCCGGCCTCCTTCAAGAATTTTAAATAGTAAATCTTA  
TAAGTGGATGAGGAGAGTAATTAATATATAGAACATTACCAATTATAAATACATATTTAAGTAT  
AATTTAGTGTCTTCTGGAAAGAAATCAAATGTGTTTCTGTGGGCATTACATTTTCTTTTTGT  
GAATTTTCCAAGCTTCTACAATAGCCATACATTCTGCAATATTTATAGTCTATAACTTATTATC  
TCTAGTTGACAAACATGGTCTTTGTTTCTTAAATTATAAATGTCTTTAACCTAAAAAAATTTAA  
TAGTCATTGAGCTTACAGGTCTGCTTAAAAACAGAACATTTTTTAGCTTGTTTTGAACCAATT  
TTTTTAATGTTTCTGTGCAATTAGTACTTTTTACTTTAAACATATGCACTTAAAGCATCCATTCA  
CATTTTAGGCACTCATTTGAGTATTTTCTTTCTGCTTACATTAGAACAAAAGCAAATGTTGGGT  
TCTATGGAATCTTTTCCATGTGCATGTATTTGTATCCTTTCTTGTTCTTGATCTTGATGA  
AGACTTCTATACTAAGCTTGGTTAGATTTTTGTTCTGCTTTTTTTTTTTTTTTTTTCCCCATT  
GAGCAGTGTCTGAAAGTTGGATGGTTTCACTTTTCTAGTTAGGTGTGAAGACGTTTT  
CTCCTTTTCAATTTCCCCCATGCTGATTGAGTGTCTTCTGTACCATAGTAACACTGATTACT  
AAATCAGAATTCATTTAGCTCACCACATCTCTGAATGTGATTGACCTACTTGAAAAATATTAA  
TACCTTTAATCTTTTGGAACTATTAGTCTTCATAAACTACCCCAAAGCCACTAAAATGAAACAA  
CATTGTGTGCTTATGTAAGTATTATCTAATGGCATTCTTTATCTCTTGAGAATTATTTCAATT  
CCAGATCTTGTAGAGATTTTCTAAAACTTTTTGGGTCTTTGAGTGAAGTGAAGACTTACGA  
TCCTTCTGGTGACTCCACACTTCCAACCTGTTCTAAAAAACGCAAAATAGAACAGGTAGATAA  
AGAGGATGAAATTAAGTGAAGAAAGCCAAAAAGCCAAAGATTAAAGTTAAAGTTGAAGAAG  
AGGAAGAAGAAAAAGTGGCAGAAGAAGAAGAACATCTGTGAAGAAGAAGAAGAAAAAGGGG  
TAAAAAGAAACACATTAAGGAAGAACCCTTCTGAGGAAGAACCATGTACCAGCACAGCAA  
TTGCTGTATGTTTGTGTTTTAATTATCGGTTTTCACTTGAGGGGGCCAGTTCTCTATATTTCAAT  
CTATTTTCTATATGAGAAATGAGCAGGCATTTTAAAAAATGGTTTTTCAATTGATGGAGAGGTAA  
AAGTGAATGGCTTTGTTGTATTTATATTATAAAAGGCCATTTCCCAAATCTAGAATTTATTAC  
TAAAAATCAAGTTTGCATTGAGGGGAGGAGTATGATTTGCTCAAGCTTACTTTTTTTATAGGT  
GGGGTTTTTATATTTTCAATGTGATTACTCACCCATACAATTTGAGCTCTTTCAAAGCATTCTT  
GTTGGCTATTTTC

>862

NNNNNNNNNNNCGGGTACTTCTAGAATTAATTAACGCGGGAATTTTGAATATTTT  
CCATGTACATTAATCTGATACCATGCAAGGTTATATGAAATGTCTATCTAACAAGTAGCTTT  
TTATGTTGCCTATCATTATAGTAAAGATTTAAACTATTTCTGTGTTCTAGTGATTCAAGAAGA  
CTGCTCAAATTTGCAGATATTTTCAATTTACTTAAAAAGCCAAAGTTATGCCTTGTTAAAAAT  
AAGAATTCACATCAAAGAGCTTTGATTTACAAAAAGTGTACTTTAGGGATCAGCAGTTAAAA  
CAACTGGATTCCCAGATACCAATGCTAGAGGTAATAGTTTTGATTTTAAGATGGTGATGGACC  
ACTTCCCTTTCAGGACATGTCAACTCAAACCTAATCTGGAATGTACACATTCCATGCTGGGTC  
ATACCTGAGTGCCAGTGGAATATAATTTGGAAGGAATAACGTTGTTGAAAAACATCCTCTACA  
GACAATATGAACAATGCCTTAGTCATCTATTGATTATGACAATATACTCTTGAACAAATTGTTT  
TCGGTTCTGGTTTCTGTGGTACTAATANNNNNN

>863

ACTACACCTCACCACTGGGTGTCTCTCAGACGTTACCAAGAGACAGAGTAAACCC  
ATGCTTTTCTCCTATCCAAACCAGTCTCTCCTGTTCCCTGCTTTGTCCAAACCCAGTTGCAGGA  
ATTTATGTCTTAAAGTAAACCATCGTATGATAATTTCCCTGAAAATGTGCCTATTAAAAAAA  
ATAGGATATGATGGGAGGCAGACATAAACATTTCCGTCATTTATTGGTGTTATTATTATTTT  
AGTTAATAAACTGCCCTTTCGCTATGCTTCACTTCCACGTGTTTAGGCAGT

>864

NAGTCCCCATTATCAAGATTTAAAGAACACTAATTAATTTTCACTGTCATATCTCAT  
TCCAACCTCTCTGAGGGTTACAACTGATTGCAAAAAGTACTCCATGCTCTCAAATGTAAGGAT

Table 4

TCATTTATGAGAGAGTGAACATACTGCTTGTAGCTAAAACATTACAGGAGACCTTAAAAAGGG  
GTATAATTGGTCCCTATGTGAAATGAACCTGACATATTTTATAAATTATTTGTGCATGACTAT  
CTTTTGTGATAGCACTAGGAAGACTTCTAACGTTTAAATACTTTATTTGCCCTCAATTACTAT  
TTAAAAGTCCTATAATTTTAAAGTAATTTTACAGCTGACAAAGATAAATATTTTTCTTTAGTT  
TTTCTAATGTCTTGGAGGTAAAGTGGAAATGGCCTGTTTTGACACATAATTTCTAGAACTTGG  
AGTTAATTTGATCAGTTACAATTGGGGTTTTTTTTCAGTTTCAAGTTTTGTGGTGGATACCTTT  
TCCTGCNNN

&gt;865

ACATGTTACTGGGTATTAATGCGTTCATAGTAGGGTATTAATCAGCAAGGTCCCC  
ATCCCAGAAAAATGTGCAGTTTGTTCATGGGAAAGATGCAGAGACAGTTTCAGTTAATATAC  
TAAGTGCTAAGATTGGGATGTGCACAAGAAGCTGGAGGTAAAAATTCTGGAAAACCTGAACGT  
GAAGTCACCACTAGGCAAGCTGCCTGTAATTGAGCTTGCTTGTATATGACCAATCAACCTTT  
GCTTGTGAAGGGTTAGTTATCTAGTTTTCTCCTTTCTTTTTTGAATTTGGTCTTTTAAAGT  
CTTGATAATCTTTCTAGTCTAGAGCATGTGAACAGAACAGAAAGGAAAATCAGGACTCAGTTTA  
CTTAATTTAAGCAAGCATTGGTTGCTGCAGTTCAGGGGAGGTTAAAGTTGCTGGGCTCCACT  
CTCTTATTAGCATGGATGCTTAAGAACTTCAGGGTTTGGAGGTCAGCTGAACAGCTGTTTT  
GCACTCTN

&gt;866

NNNNNNNNNNNNNNNNNNNNNAGGTACTATGGTATGCCCTAACTAAAAAATAGATATA  
GGATAGTGATACTTTGATGAGGACTATGAAAAGGGACAGTACGGCTTAGTGGAAAAAGTTTT  
AAGTTTTCTACTGTTATTGAATAAAATTACATATAGTGTGATTCTTATTACTTGAAATTAGGAG  
GAGAAAGAATTTTTGAGGTAAATTTGAAAAGACATAAAATAGACTACCCTGACAAAAATCTT  
CACAGATTAATACTAATATTTGCATTGTCATGTATATTACAAACAGTATTCCTTGCTTTT  
GCTTTTTTGTGTGTAGTGTCTTGTCTATATGAAATATAACTTCTTTATGCAGCCTAGA  
CTTTTTTTCTTGTATTTCTGACCTTGTTGTCATGTTAGAAAGCCATACTCTAAGAAAATA  
AGT

&gt;867

NNNNNNNCATGCAGCCAGGCTAGACCGGCTCAGCCCCACTTCAAGACAAAATCTCA  
GCACCCATTACTCACCATACATATTTATGCAGTGAGCTGCATCATGACCAGCTATCATCTTAC  
CTCATAGTTTTTTCTCTGGTAGAGATAATTAACCTATTATGCTTGATCAGTTAACTCTTGCTT  
AGAAATTTAAAAATATTTTTAAGTGACAAATCTTTGTAGAAATTTTTGAAATAGAAATATTT  
GAAGTAGAAAGTTAAATCACCCACAATTCTGCTTTGTAAACATTTGAATATGTTGTCTTCCA  
TGATATATAACAAAATTTGTCTGGGTATTGCATATGTCGTCCTTTCCTTCTTAATATTGCATT  
TGAGCATTTAACAGAACACTAAATATTTCTCCCTAGAACATATGGATTTTGAATAATTTAACTA  
ATTATAAAAAATAACTTCCCTAATGGTTCTTTGGGCTCTTTAAAGGTTTGTGGTATATGTTTCA  
GGTATGAACACTTAAGGCTCTTGACCACATACTGCCATACTGCCATACTGGCATACTGCTTTT  
AAAAATAATTAAGCN

&gt;868

GCGTCCGGGCTAAGCATCCGCCGCTCACCTCCCAAAGTGCTGTGTTACACAGGCCT  
GAGCCACCCAGACCAACCTGTTTTCTTTTTCTTTTAGCTCACAAGAAGGAATNNNNNNNNN  
NNNNNNNNNNNNNNNNNNNNNTATGTTGTATACTCTCTACCATGGGGATGAAGACACAAG  
AATTATGATAGTTTCATTGAAAAAGGTTGAGAATTGAGAACTTGTGAGTTTCCACCAATAATGG  
CAAAGATACAATATGACAAAGTTCAGTTGCTTAAATGAATCTAGGAATGAAGAATCTAGAAAT  
TATAATGGAGAGGTGATTAGGAGTTTAAATGGTTTATTGATTGGAGATCCTTTATCTGGATT  
ATATAGGGCACACTTTGCTTTAGGAATCCCCCTTGATCTTGGAAAACGGCTTTTAATTGTA  
CATTAACTGTATTGGTAANNNNN

&gt;869

NGTACATTAAATTAAGCATACTAAAGAAAAAAGGAATGTTTTCTTAGCAATTTAAGAA  
CTTGCTTAAAAAGAAAAAAGATCAACCACTCCCTCTAGTGACAAAAATTAGCCACAAGATGA  
AATTCAGTTAAAAATCCAAACACTGTGGAGATGGAAAGCCTTGATTTTAGATGAAAGGATTT  
ATGGCTGGAATTAAGAAATTAAGGAGGAGAAAGTGGGTGAATGGAAAACATTTACTTTTT  
GTTTTTAAAGTGTTAATAGCCACTTTTTGTCCAGTCTGTATCTCCTTTTATTAGTCTTTATATA  
TATATACACACACACACACGATGTTATATATACATATAATGGTTTATGTATTATATATGGT  
ATATATACACTTATATGTTATATATATGGGNNNNNNN

&gt;870

CCCTTGGCCGCCCGGGCAGGTAATAATTCTTCAACAGAATGCAATAAATACGAG

Table 4

CTACATAAATCCAAACTTGGTTCAAAGGTAGCTATGTTTTTTAAAAAGTTATTATAACAGAC  
AAAGCANATGCAAACCTTATCCTTCCAAACCCTGATAATTGGTAATACCAATAACTGGTATCT  
AATAAATATACAAATCAAGAGAATACCTTGCTAGCTAAATTAACAAAAAATACTATC  
CATACTTAACAACCAAGTGCAACTNTGTAACCAAGTGTTCTTAGCTCCCGCGN

&gt;871

NATGTACAAGGGCTTCTTTGGTGATAGTTTCTACTCTCTTTAAATACTGTTCTGTTATT  
TTTGAAATCTGATCAAGAATTGACACAATAAATCTCTTTGATATTTATACTTATGCCTACTTTTA  
ACCTTTTAGGAAAACCTTTATGAATTGGAATATTCTAAAATCCTGAAATAATTTGGAATATTCTA  
AAATTCTGAAGAGAATATGAACGGATTGTTGGAATGGAACCTTTACCCGATTCCCTCAGACTA  
GAGTGTTTCATACGACATTTTGCCAAGAAGTTCCTATAGAGGCAATATCACTTTTAGGATGGAT  
GGGTCTAAAAGGATCATATTTAGTTTCTGGTTATTGTTGCACTCACTTTAGAGGATGTG  
TTCCTATTAGGTTGCTGCTACTATNTGCTCTCCTAAATAACAGTATGGAATTATAGAAAGAA  
GGTTGGGAGAATAGTCGTGTGANN

&gt;872

ACAGTTCTGTGTTTTTCAATTGATACATACTACTTATGTAAGAAAAATGAGTAAAAATA  
GAGGGCCACACAGGCAACAGCCATTAGGTTATGCACAGAGAAGGAAAAACCTCAGAGGTTG  
TGCTGCCATCTTCTGGAACAAACAAGAATCTACAGGAACAGAAACATGATGGAAGAACAAGG  
GTTAGTTACTGCAACGAAAAAACATGGCAGGAAAAAACCATTTTGAAGCCAAGCTTTTGAT  
TTAACCATGAATGAAACAAATGGGAAACAACAACAACAAAAACAAAAACAAAAAC  
AAGAATGACCAATACAGAAATTATTAATGTTTTACANN

&gt;873

GTGGAAACAAGGACTTTGCACAGCACCTTCCAGCCCAACATTTCCAGGTAAGGG  
CCTTCCCTCCCTTGAAGACCATTATCCCTGCCCAAATGCAATGGCAGTAGTTGACATTTTTG  
CGCCTTTTATCTTCTTTGAATACTTTGAGATGCACAGAAATAGAAATGAGACTCAAAATAAGC  
GTCATATCAAAAGGGAATTTTTTTGTAAGAATTTTCAGGTAACCTCTCTAAATCTAGATAGGAGA  
TTGGCCATGACTCAGAACAACCCAGAACCCAGGGTCTCTGTGTCTCATCTGTTTCTTAAG  
TCTGCTCATCTGCCCTCTTGTGTGATCACCTTCCCTATGAGTCCAGATATTACAGAGAGTCC  
TTGAGTGCTTGTGTGTTGTAATGCAGCCCCATCTACTTCTAAATGCATAGGGATTTGTTGCC  
AACTTGGCTCCTTTGCCACCATGGGACCGCTGAGCTCCAGCGAGGTGGGCAGGGTCTG  
GGAAAGTGATTGAGCTCGGCCAGTTGAGGAGTGCCATCTGAGACTACAGTATCAGGGAG  
GCGAGGACCATGTGGATAGCAATGGGGGACATCCACTCCAGAAGATGGAGAGTAGTTTCC  
ACAGAAGCAAAAGCAAGACATGGCCACTGACAAAATAATCTATGTGGAAGCTTGTATAATGA  
AGATGTCCAGGCCATGTCTGCAGAGATTTGGATCCAGTAGGTCTAGGGTGGGTCCAGGAAT  
CTGAATTTTAACAAGTACCTGAAGAGGTTCTGATCACACTTTAAGAAATATTAATCTAGGCCG  
GGTGCGGGTAGCTTAAGGGAGTCGTCTAGAGTCNN

&gt;874

NNNNNNCGTGGTGCCTTTTCGAGGTACTGAGGATGACTAGATGACAAATAATAAG  
AAAAAATGGCATTGACTTTGTATAGAACTTAATAATCAGATTTTTAAAGAGGTTAGTCTATTCT  
CTTATTTGAGAGATATGGAACTATCTAGGCCTAAAGACTGTAAATCTGCCTGGAATCAGATA  
GTTGGCAGCAAAATCAGAAATAGAAAGCAGTTACTCAACAACCAACAGTTTAATTTAAGAAAC  
ATTTGACAAGCATCTCCTGTGGATAAGACCCTATGCAAGATGTCATGAATATAAATATGCACA  
GTAGT

&gt;875

NNNNNCCTGTGTGTAAACGACGCGCCAGTAGCCTTGGCCATCGCTGTTTCCTGTG  
ATGGATACGACCGCAATTCGCCCTTATCGTGGCCGCGGCCTATGTTCTTTAAAAATAACAGA  
GTGTGATTTAAGAATACTCAGACTAGAGCCTTCAGTGAGTTGTCTGAGGGAAAGGAGTGAAG  
TCAGGACTTAGATAGAAAGATTACAAAGAAAGTCAAAGTAAGCAGAGGAAAAAGATACCAAA  
ATGACAGCTTCAGAATAAGCAGTAAGGGGAATAAAGAAACAAAGTTGTGTGTGTGTGCATGT  
ATTACATGATAAATCCATGGAAAAAGAACTCGCAATTTACTAAAGGAATAATTCATGGTCATA  
CCAATTTCTGTGTCCAAACTAATTTGATTAGTATCAGAAGGAAAGTCAATGTTTAAACAGTC  
CTTCCCATCTGCTACTTCCATAATGCCTATGCAACTGTCATAAATTAAGAGTAGAGAAGGG  
CACAGGGCCCACTGTCAAAACAAACAGGCAATTCT

&gt;876

GTGGAAACAAGGACTTTGCACAGCACCTTCCAGCCCAACATTTCCAGGTAAGGG  
CCTTCCCTCCCTTGAAGACCATTATCCCTGCCCAAATGCAATGGCAGTAGTTGACATTTTTG  
CGCCTTTTATCTTCTTTGAATACTTTGAGATGCACAGAAATAGAAATGAGACTCAAAATAAGC

Table 4

GTCATATCAAAAGGGAATTTTTTTGTAAGAATTTTCAGGTAACCTCTCTAAATCTAGATAGGAGA  
TTGGCCATGACTCAGAACAACCAGAACCAGGGTCTCTCTGTGTCTCATCTGTTTCTCTAAG  
TCTGCTTCATCTGCCCTCTTGCTGTGATCACCTTCCTATGAGTCCAGATATTACAGAGAGTCC  
TTGAGTGCTTGTGTGTTGTAATGCAGCCCCATCTACTTCTAAATGCATAGGGATTTGTTGCC  
AAACTTGGCTCCTTTGCCACCATGGGACCGCTGAGCTCCAGCGAGGTGGGCAGGGTCTG  
GGAAAGTGATTGAGCTCGGCCAGTTCCAGGAGGTGCCATCTGAGACTACAGTATCAGGGAG  
GCGAGGACCATGTGGATAGCAATGGGGACATTCCACTCCAGAAGATGGAGAGTAGTTTCC  
ACAGAAGCAAAGCAAGACATGGCCACTGACAAAATAATCTATGTGGAAGCTTGTATAATGA  
AGATGTCCAGGCCATGTCTGCAGAGATTTGGATCCAGTAGGTCTAGGGTGGGTCCAGGAAT  
CTGAATTTTAAACAAGTACCTGAAGAGGTTCTGATCACACTTTAAGAAATATTAATCTAGGCCG  
GGTCCGGGTAGCTTAAGGGAGTCTGCTAGAGTCNN

&gt;877

&gt;878

ACATGTTTGTAAATTCCTTAAATATTTATGCTCAAACCAACATTTCCATTTTATCTAT  
CTTAAATATATCTTCTCTTTACGCCTAATTTCTTAAACTCCCAGAGTTTTTTCTGTAAGA  
TCTAGTCATCTGTAGCACTTCTCACAATAAGCTCTCTTATGCCCAAACAGTAACGAAAGA  
GGTCTCTTAGTTGGACAATAAGCAGTGAAAGATATTTCTTATGGGACAAGAAATTAACATTAT  
TAGTCAAATGTTGATGCCGGTAGGCTGAGAAATGATTCTCACTTAAAAGCCCCCTGGGTTTTA  
AACCTCTCTTAGAAAAACATTAGTTAGATGAAAANNNNNNNNNNNNNNNNNNNNNNNNNNN

&gt;879

NNNNNNNCAGGTACAAGGAGCTAGATCATCAAGGAAGGTCAGGGCAGGGTTCACA  
GGATGAGGGCACTTTGCCATTCTTTGTGATATTGGTCAACAAATGACACAGGTTATTTACAA  
TCTTGACCTTTTGGAAAAGATACAGCAGGTAATAGCCTACAGGAAAGAGGAGGTAGAAAACA  
AGTGCCACAGTAGAAACACTTTGATAGCTAAGATGCTGTCTATCCCTTGTGGTTATTCTGTGC  
AGTTGTCTGCCTGGGTTCTTGGAAAGTCCCAATCTAAGGGTGCTTGATTGCGCCCAAGGATG  
TCTGCATTCACTGGAACCTACAAGCCCTCTTGCTTCAATCAACTCCTCAATCAGTTTC  
CCAAACTCTAATCCTTACTAGACTGCGAAAAATTATTCTCCTTTTACAGCAATGGAAAAAGG  
CCTTTGTGGTATCAATCTGTGTTATGTGTATATTATTAACCATGTATTTTATATAGTTGT

&gt;880

ACATACAATAGAGTATTATTCAGCCTTAAAAAGGATGAAAAAATCCTGACATGCTAAA  
ATATAAATGAATGTTGAGAACATTATGCTAAGTGAAATGAGCCCATCTAAAAAGGCAAATCT  
GTATGATTTCACTTAACTGTGATATCCAGAGTAACAAATTCATAAAAAACAGAAAGTAGAATA  
GAGGTTTCCAGGGACTGGGAGTTACTTGATATAGAGTTTCAATTTTGTAAAGATAAAAAAGTTC  
TGGATATTGTTGCACAGCAATATGAATATACTTAACACTACTGAACTGCACACTTAAAGATG  
GTTAAGATGGTAAATTTTGTAGGTGTTTCTTACCACATTTTACAAAAAATTTTAATTAAGG  
AATTACAAAATGTACAAAATACTATTATCATTGTGTTTCCAGTTTATATTCAACACAGCAGTA  
TTTCAGGTATAGTAATTAACCTTACTATCATTTGAAAAAGATGTCTATAGCTTAGTAAATATCCAA  
CTCTTATTCATACATTTTGTGATTATCTAAN

&gt;881

ACCACTGCACTCCCACCTGGGTGACAGATCAAGACCCTGCCTAAAGAAAAAATTTAA  
AAAAATAAAAAATTTAAGAATATTTCTATGCCCTTACCAGGCCAGCTTAATCAGACTTCTCTA  
GGCCTAGGACAGGCTTAAGATCAGTTAATTTAAACACTTCTGATGTTTCTTGAGCATTGAAA  
AGTTTTATTCTTCTGCTTGTGTTTTCAATCTTTTTGTGTTTGTCTTTTACTAAGGCTAGAAACA  
CGTATTTGGTTTGGTTATCTGAAGTTTAATTGCATTCATTGTGTTTATAGTATTTATCCCTGTA  
GTGTTGGAATTACCAGTCACTTACATTCATTTTAGTTTTTGCCTTATCTCCTN

&gt;882

ACTTTTTCTTGAATATTTCCAGGGCACAAGATATTCTTATACAGAAACCTCAGAATGG  
AAAATAGCTAAGACATAAGCAGTGTTCACAGAACCATCCATCAGTCTTTTTTAGGATGTAGC  
AGTCTTCCATGTATCACTTAACCAATCATTATTCTTACCCCATCTTTTTGGGCAGGGGTGGT  
AGAATTTAAAATTTACCATTACTAAGACAGGGTGATAGTAAGCATAGAATTTTGGGATGTCTT  
TTTTTCTTGGCCTAAACCTTCAGAGTCTGCCAGGTGATTCAAATGTTAAGATCCCATAAT  
CTCGCTGTGTGCTCAAGCGAACACTAACACTTTAAAAAGTGGAATGAAAAATCTGAACCTG  
TTGAATTAGACACAGTATTTGGGCCCATCTTCAATTTAGAAAGAACAAGTGGAGATATCAA  
GGCCATTGCGGCCTTCTGTAGTCATACN

&gt;883

Table 4

&gt;884

ACTTTGATACATGTAAAGTGCAAGGCACCTTGCTAGAGAGCATAGGAGCTATACTAA  
GATATAGAGTCCTGCCACAAATACACACAAAATAACATGAATACAAAGTGTCTAAAAGTCAT  
GCCAAATAAACAGAGCATATAACTGGGCAGAGGGATGGAGAGTCACATGCTGGAGGAGGT  
GAGCGTTGACATGGTCTTATGGGATATGAACTTGAGATGTTGAAGTAGAACTGAGACATTTT  
TGAAAACTAGATGTATGAACAGAAGCAGGAGGAATAGGAGAAGGTTTGGAAAAACAGCAAG  
CAGCTCAGTTTCTTGGGTGGTCCAGGAGAAGAAGCTCAAACAACAGTCAGTGATAACACTAA  
AAAAATCAAAAATTTTAAAAGTCTGGAATCACAGCATAAAGAACCCGTATGCAGGANNNN

&gt;885

ACAATAACAAGACAGTGCCTGCTTGTGACCAGGGGCTGGGCCTCTTCATAGCTCT  
TTTCCCTGCCTTTTGTCTTCAGAGTTGATCTGCTTCTTACACATTCACCTTTTCAGAGTTTGCT  
ATCTTAGAAGCAAGGATCATTITTAATTGGTTTGTACTTCAAAGTCCCACCTCATCAGAGGC  
AGGGTTTCGCTTATATTTGGCTCAACTACTTTCTCTTGCTTGGTTTAGTAACACTAATGTTTAC  
TAACATTAATAATGAAACCAGTTTTCAGCTAGCATCTATTGACAAATATAATTATTTATTTCAA  
ACTGTATATTTCAAATTTAAACATATTCAATGCTTATTGAACATTCTAACATAATAGCTTATGAT  
AAAGGAAAATATAACATCTGGTTTGGATCTGAAGCACAACCACTGCN

&gt;886

ACATATGGCTCGGCAAAGGGGGGACTGGATTAATAAATTCTGGTAATATAGTAAGGAC  
AAAATAAATGTAAAAAAGATAGAAGTAAATGTGAGAACATCAACATGAACGCGTGCTCCTTTG  
AGTAGAAAAGTAATTTTCTGCTTTGTCACTCAAATAGCTGGCAGACCTGACATCACCCCTGCCT  
CTGCTTCCATGCTCTAAACTTTCTTGGGCCTCAGATTTGGATGCTAATATGATTTTCCACTT  
AGTGGATAAGAGCTCCCTGGAGAAGGGCTCATTCTTGGATGGACAACAGAATTAGAGCCTG  
AGTCTAGAGCTAATAAAACAAAGACAAAGAAGGGATCACGCAGAAAGCTTGGTAAAGACTGT  
CCTGGCCAATCTGATTACAGTCAGTTGGTAN

&gt;887

ACCGATGAAAGTTTAAATCTAATCAACAGTATTATGCACTGGTTGAAGAAAACCAGG  
ATTAAGACGGAGGATAGTCAGCATGGAATCTAAGAAAGGAAAAGTCCGGTAACTATATGTGT  
TCATTAGATTCTAAGCTGTTAAGGGAGAAAGACCCTGAGTCTAATGAATATAAACTTTAAANN  
NNNNNNNNNNNN

&gt;888

&gt;889

ACTAAACAGGCCAGATATATTCTCTCATTAACTTATTGCCTAGCAGAGAAGACCAACA  
TTTTTAAAAGTTTATACATATAGTTAATTTCTATTATGATTATATGATACAAATGGAAAGTGCTA  
TGAAATGTGGAACAAAAGAGAATAATCTGTCTGAACAGTCAAAGAAGACTTCTGGGAGATG  
ACATCTGAGCTAAAGGTTGAACAAGGAATTGGAACAGCTGGCATGTGCAAAAGACTTGAA  
GACTGAAGGAGTTAGCCTTTAAAAAATGAAGAAAGTTCTATTTGGCCAGAGCAGAGTTTCA  
AATAGTGCCTCAGAGCCACGTTAAAGACCTGAGGCCTTTATTCTAGGAGAATAGGGAGCTG  
CTCAAGGAATTTAAGCTTGAGAGTGACAAGATCAGATTTGCAATGCCTTTCAAGAGGTAGTTA  
CAAGGAGTTGGGTCTCTGACCCTTTGCAATTATACCCATTCTAACTAAGAATGGGGAAACTTT  
TATATCCTGTCTTTAANN

&gt;890

ACTTGCCTTGCAAAATTATATTACAAGAAGAAGCACACTTGTTATAGAAGTGCTGAAT  
TGTATGGAACCTAAATCTGTCAAGTTACCCTGTCTTTCAGGGTCCGTCTCCCCACCTCCCAG  
ACCTCATTATATTATCCCGAAAAGAACACGATCTCTTTAAGGCTAGGCAAGTATTGCGCTGAT  
GAGCCAGGGGACTGCCACCAATTGGCAGGCCCATTTGGGTGATAAATGTCCAAGGACCTCTA  
GGCTGACGACACATTTTTCATCATTAAATCCAGCCTATTGTAACCAGGGGCCACTCACATTGATT  
CGGACTAGGGGCGATCATCTGCTGTTAAGAGGGTGATGACTCGCTAAAAATGAGGGCCTGA  
AACTAATCAAATATATTTAGAGCCTTCCCTGGCAACTTGCTGGGAGAGCAGTAGACAGC  
TAATAGGGGAGCCCCAGACAGGTAGCGCGGAGCTCACCATGCN

&gt;891

ACCACCTTCATGGCTAAGCATGTGCGGGATGGAACCGGTCTTCTGGGCTTACATCT  
TTGCTTTGCCCTCTTCTTCCCTGTGATGAGTCTTGGGGTAGGCCTCAAAGGCTGAATCTTCA  
ATATAAATACAACAGTGAATGAACAACAAATGGTTATTTTAAAGATCTATCTTGGATGGCTATT  
TAATTTCACTAAACCCAGGTTGCTCACCTGTTGACTGGAACAAACAATAGTCCCTTCTTCAT  
GCGGGCATGGTGAGGGTTTTAACCCCGCATTGTCCACAAAGACCGCTTAAATTATAGTAGAT  
GCTCAGCAAATCTGAGCTATTATTTTATCACGACTGTCAGAGGTCAGATCAGGCTTCGGGG



Table 4

TCAGACACACCTGGGTTCAAATCCCAGCAGGGCCACTTACTGTTGGAGCCGGGGCAAGTCA  
GTTATTCTTCCCTGAGGGTCAGTTTTCTCATCCCTAAAATTCCAATAATACTCATCTTTC  
AATGATGCCGGGAGGTCTTAAAAATAATATAAGTTCAGAATGATAAACAGGCTGGCACAAA  
TTGGATGGCAGCAAATGTCCTTGCAGCCCTGTGTCTCCTGCCTTAGTTTGTGTTGAGGATTA  
GGTCAGATAGTGT

&gt;892

ACTACAGAACAGGAACAATCTGCCATGTGTGTTTACAACCTTCAGAAAGCCCTGGAAT  
GACAGTTGCCAGGGCAGTTCTTCTGAATTTGCAGGTGAGAATTAGTGGATGATGAATTTTTT  
CACACATGGTCAACTCTGTGCCACCTGCTACAAGATGTTGGAACAGGTATATTTATTTATTTA  
ATGATGATCAATGATTCTTCCAACATCAGGGAACATCAGGGAAATCAGCTAGTATATGCTCTT  
TTTGAGGATTTTTCAGCTCCAAATCCTGAAAGCATTTCATGAACTACATAAAATTACTTTTGTTAA  
GCAAATCATCATAAGTAAATCCAGTCATATGAATCTGGAAGGATTGCTGGTGGGCACTAAC  
ACTGACCACATGTTTCAGTGTGGGCAAGTTTACCATCCATCACGGATTTTGTGCTTGGTGAA  
TTGTAGGGAGTGAAAGAGAGAAGGATGTTTGGCCAGTTGTCTTTTTACCTATATCTGAAAT  
TCTCACTTAGTCAAGAACAAAACATTTAGACATTTAATTTCTTTTGGGGTTNTAAGTGATACA  
TGTTTAAANN

&gt;893

ACTAGCATTAAAAAGTCTACAAATTATTAGAGAGAAAAATACAGGTTGCACGCAAA  
GCATAAGAATGAGAATGGCATAGACATCTTAACAGTGCCACAGAACTAAAAAGTAGTTCT  
GAGTAAAAATGAACTATTTACCCAGCCAAACCGTTAATTAGGTATAAAGGTAGAGTTAAGACA  
TTTATAGACATACAAGATATTAAGATTACTGAGTCAATTGATATTCAACAGGGGTGCAAATGG  
AGAAAAAGTCTTTTCAACAAATAGTGGTGGGACAAATGGATAGCCACATGCAAAAGAACATA  
TATATAAGAGCTAAAACCATAAATGCTTTTGAAGAAAAATATAGGGTTTATCTTCATGACCTTGA  
ATTTGACAAAGGATTCTTGGACATGACACCAAAGCACATGCAACAAAAGAAAAATTGGAGT  
GATATGATTAATAN

&gt;894

ACAGGTCACACAGCACATCAGTGGCTACATGTGAGCTCAGACCTGGGTCTGCTGCT  
GTCTGTCTTCCAATATCCATGACCTTGACTGATGCAGGTGTCCAGGGATACGTCCATCCCC  
GTCCTGCTGGAGCCCAGAGCACGGAAGCCTGGCCCTCCGAGGAGACAGAAGGGAGTGTGCG  
GACACCATGACGAGAGCTTGGCAGAATAAATAACTTCTTTAAACAATTTTACGGCATGAAGAA  
ATCTGGACCAGTTTATTAATGGGATTTCTGCCACAAACCTTGGAAGAAATCACATCATCT

&gt;895

ACAGGTCACACAGCACATCAGTGGCTACATGTGAGCTCAGACCTGGGTCTGCTGCT  
GTCTGTCTTCCAATATCCATGACCTTGACTGATGCAGGTGTCCAGGGATACGTCCATCCCC  
GTCCTGCTGGAGCCCAGAGCACGGAAGCCTGGCCCTCCGAGGAGACAGAAGGGAGTGTGCG  
GACACCATGACGAGAGCTTGGCAGAATAAATAACTTCTTTAAACAATTTTACGGCATGAAGAA  
ATCTGGACCAGTTTATTAATGGGATTTCTGCCACAAACCTTGGAAGAAATCACATCATCT

&gt;896

ACCTTGAGCTGCCTCAGCACTCTTTTGCCATTCTGTGCTAGAAACAGCCAAAGCCAGA  
CAACCAAATTACAGATGCTTAAATGTTAATGCCAGACACCAAGGCTCCGTGAACCTCCCTGTT  
GAACATCTGACCCCGACTACTTGAGGACATGAAACCTAACTGTGCAGCTAATTACACCTTCC  
AAGGGCAATGACATCGGGTCCTATGATTTTATTCAGGAAAGCAATAAGGCAATCGGGGTAC  
TGTGAACATCATTTGAAGGGAAGTAACCTTCTAGCTTTATTCACAAATGGTCTA

&gt;897

&gt;898

&gt;899

ACTGACAGATGCCTGGGTAACCATGTCCAATGTTCAATTTACTTTCTGCTGGACAGA  
TAGAAGGCTCTCCTGCAGCCTTTTCGTCTTCGGGTGTCCGCTGGTAAGAAATCCGCCACACA  
AGAAAGCACTGACATTTGGAGCCTCATCAGGTTGAGAGTTGAAAGTGAAATAAAGGATAATA  
ATCTTTGTCTTATTTTCTTTGTTTAATGTTTCCCAACTTACGTTAGGACAATGTCAACAAAGA  
CAGATGTCCCTAATAGTAATTGCAGGACATGTGTTTTCTCATTCTATCA

&gt;900

&gt;901

ACCTATGAGATGCATTTGAAAACCTACCTTGTTTATATGTTTCTTCTGTTGCAATTTCT  
TCCATTACCTGGAATAGCTGCTTTGGACGGCAAACCAAGCAATGCCCTTTCACAGCTGTGGG  
ATGAATGGGGAAAGAAGTCTTGGTAAGGAAGCAATTCAGAGAACATGGGAGCATCTCATGG

Table 4

CAGCAGTCACAATTTTGTGTTGCGTAATATTTTCAGGAACCTTGCAACCCTGATAACTTGTGCCT  
GCCTGTCTGTAGGCCTTTAATGATGTTTTATTGAATTTTGGN

>902

NNNNNNNGAGTTTTTAAACTGTACTTCTATACAAGGCAAAATGAACCTCTAAGTAAAA  
AAGAAAATCACACTTCTAAACACAAATTAACCATTTTCAGTATTTAATTGCTCCTAAAAGGTGTA  
TTCTACTTCATTAAATGTAAGAGAAAAGGTTACCTACATTACGCAGTTTAAGAAACAGGATAA  
ACTTTAGCATATAAACAGTCTGATTACATTTTCACACTTTCAACCATCTTATTTATACTCTACAT  
TAGATAATCTTTAAATTCATCATAAGGTTTCCCATGTTAACTCCATATAAAATTTTGTAACTCT  
GCCCCACCCCATGTCAACTCAGTGTATACTACTACTAAGCTTCAGACTCAAATTTATTTCCAAA  
CCAAAGAACGCTCAAGGGTCTTTTCGCATGCTGCAACTGCTCAATTCACAGAATCACCCCTA  
AGGGTGAAAAAACAGAGCATACAAAGCAGACTTTTTTTCAACCACTCTTTAACCTAATATTCA  
TAATAATTTAAGAGTAACAAATAATATACACTTAC

>903

ACTGGGTGACAGGAGAGAGCTCATGTGACCCGAGTCTGGGTGGTCTCAGGCATGG  
TATAAAGAACTAGGCCAACCAACTGCACTAGACATAGAACTAGCTGAATAAACTCATCCACT  
CCGATTTTCATTTTCAGGTATCTCATGAGAACTAGAGGACAAAAACAATTCCAAATTAACAAA  
ACAAAGTTTACTCTAGCCATCAGTGCCCAATGAACATAAATGACTGCCTGAGAGTTATATTAAAC  
AAAATAATTAATTCAGACGAATTAAGGAATTAACCAGCTATGGGAAATATACACTCTATACTT  
AGATGCACATTT

>904

ACTTAAATAAAATAAAATTA AAAACAAATCATTTTAGAGATAAAGAGTGAAGTTACTGAA  
AAAGGTGACTAGGACTCTGTTTATGAAGAAAGGTTAGTATTTAAATCATGAAAAAAGTAAG  
AATACTTTATTATTCAAGTAACCTTAAATTTGTAATTCAGATTGGCTTTTATGGTATCTAAAACAA  
TCTGGGCTGCTATAAAAATTCAGTCAACTTCTAACTTCCAAACACAAAATAGTTATACTCAGT  
CTAAGAATATCCGACCTACCGTGCAGGACCAGAGGGCTCATCTCTTGCCGAGCTTATTACAG  
NNNNN

>905

ACTTAAATAAAATAAAATTA AAAACAAATCATTTTAGAGATAAAGAGTGAAGTTACTGAA  
AAAGGTGACTAGGACTCTGTTTATGAAGAAAGGTTAGTATTTAAATCATGAAAAAAGTAAG  
AATACTTTATTATTCAAGTAACCTTAAATTTGTAATTCAGATTGGCTTTTATGGTATCTAAAACAA  
TCTGGGCTGCTATAAAAATTCAGTCAACTTCTAACTTCCAAACACAAAATAGTTATACTCAGT  
CTAAGAATATCCGACCTACCGTGCAGGACCAGAGGGCTCATCTCTTGCCGAGCTTATTACAG  
NNNNN

>906

ACCTTTGCTTTAAATGCATACTAAGCTGTGAATGACTGATATCAGAGACTTTCTTGGA  
AGTAGGTTTCATAGGATGGAGGACAAATGAACTTTTATGGGCGAAGAAAGAGGGTCAAGTTG  
GGTGGTGCATTGAAATAAGTGGTTCCAAAAGCAAACTAGGTCAACTTTTTAACTGGCTAGTG  
AAAATGAGATTCTCAGGATACAAAAGCAAGGAGAAGACAGGAATAAATCAGGACTCCAACA  
GGCAGAACAGGATTTATTTAGGGCATGCAATGTGGAGGGCCCTAATGGGAACATGACAGTG  
TT

>907

ACAAATTGCATTGTCAATTTATATTTGTTTCCCCACTAAAGCCTCCAAACCTTGCTTG  
TTTTGTTTAAAGTATCCCTGGGGCTCATCACAGGGCCTGTTGAAGTTCTTTTGAATGAATTGA  
AGAATGTGAATAATAGTTCTAGTTCTTCGGGATAATGGAAAGCTAATAAGGTTTATGCTAGAG  
GCTCTTACTGCTGGGACTCTCTTCTTGTTTTGGTTTTAGGAAAAAAGCTAGAAAATCCAAC  
TTCAGCTAGAGTAACAGTAGTAACCTGACTTGAAAGTATGTCAAAAC

>908

ACCTATGAGATGCATTTGAAAACCTTACCTTGTTTATATGTTTCTTCTGTTGCAATTTCT  
TCCATTACCTGGAATAGCTGCTTTGGACGGCAAACCAAGCAATGCCCTTTCACAGCTGTGGG  
ATGAATGGGGAAAGAAGTCTTGGTAAGGAAGCAATTCAGAGAACATGGGAGCATCTCATGG  
CAGCAGTCACAATTTTGTGTTGCGTAATATTTTCAGGAACCTTGCAACCCTGATAACTTGTGCCT  
GCCTGTCTGTAGGCCTTTAATGATGTTTTATTGAATTTTGGN

>909

>910

ACTCAATGGGGTAGGGTGTCTTGGGATCTGACTGTTTCTTAGACCTTCAATGCTTCT  
TGGCTTTCCTCACTGCTAGTTATAATTCAGTTTTCTCAGGTCTAAGTCATTCATCACTCTTTTG

Table 4

TCTGCTTTTCAGCTTCCAAAAATTCATTGCTATTATCTCCTCTCCTGTTTTCCCTATGGTGTGT  
TTGTGTCTTTTTCTTTAAAAAATTCCTTTGTGGTGGTTTTAGGGGAGTTTTTGGGAATATATA  
NN  
>911  
ACAACCTAGCCAGCTGCACAGCAGCTCTCCAAGAAAAAGGTGTATATTAGACAGATT  
CAATTATTCATCTTTGTGATTATGAGTAGTAACCAAATTTGTCTATGTAATTTTCTTATGGTGAAC  
TACCCAAAGCAAGGCCTCACCTTAGGCTACCAGCTTGACTCTTAAGTGGACAGAAAGAGCCA  
AAGGCTAAAAGGTTTGTGAGAAACCTCATGAGCACTGAGTGTTCTAGTTCCAGATGAAAACC  
GGTTTCAGGTATGAAGCAAGAGGGAGTGCTAATTGGTAGAAGTAATTACATCTTT  
>912  
ACAACAGAGCACAATGCTTAGATTTGGGTGGATTTGAATAAGATGAAAGATAAATTAT  
GATTTTGTTCAGTGTTAAAAATAAACTAAGACACTTAAGGACCACAAAAATTTAGACCAAAG  
TATCTTGTAATTTCTACCTGGTGAAAGTTTGATATAGCACACATATGACTTTTTCTATATTATTT  
CTGTTTTGAGTTTAGTAGTAAGCAGATGGTTTGTATTTTCTTTAGTTGCAACTAAGTGATCAGT  
TTCATGATTTCTCTTACTATGAAACATTTTTTTTTTTTCTTAACAGTTATCTTAAAGCAACTC  
TGGGTCTACTGGGCTCAAAAAATGAGAAATCTAAAGAAAACTGGAATTTTTTTTCCCCAAAT  
TAAATGAGTCTGGTATAATTTAAAGCCTATTCTTTGTAGTTTCACCN  
>913  
ACCACAAAGTTATTGCCTACATCCAGGTCAAGAAGATCTTCTACTGTATTTTCTTCTA  
AGAGCTTTTACATATAGGTCAATGATCAATCTAAATTAAGAGTTGTGCAATCATTAACCTAG  
CTTAGACTGGTATACTAATTGGTTTGTATACGAAGTGGTTAAAGGCATAGGACACATGCA  
GGCTGTGTTTCATTTACAGCAGGGCTCTGTAATTAGGCAATAATTACTTACCATCATACCTAG  
TGAGGCAATATGGGAGAAACAAAACAGGCCATACAGCTTCACTATTATTCCTACT  
>914  
NNNACTNGAGGACCAAGCCACAGAGCAAGCGCTAAAAAAAAGNNACTAGAACC  
NACCCTGNNNCACGCACCCCAATTTTCAATAATGTATCAGTAAAAAAAACAATTATCTAAA  
GTTTTTTAAAGTAAAGAAAAATTATTTATCACATAGGTAACCTGGTGTCAACTAGGTAAGTAT  
CTATTTTAATTTAGGAAGTTAGTGTCTTCTTCTCAATTTTCAGATTTTCTGAGGGGAGGCT  
CAAAGGCCCGAGAGGCTCTCTACAAGGAGAAAGCAAGCCAGAGAATCTGA  
>915  
ACCAGAAATGGTAAATATATGAGTAAATATAACACACTTTTTTCTTTTAAATTTTTATT  
AAAAGGTAACACTTTTGCAGCAAATAATTAACAATGTATTGTGGGTTATATAGTAGTAAGATG  
TTTGACATAAATTACATAAATAATTGGAGCAGGGAAATAGAAGTGTGTTGTTGAAATGGTTTG  
ATATTATATATGAAGTGGTATATTATTATTTCAAGGTAGCCTTGATAAGTTAAAGGTTACATAT  
TGTAACCCCTACAATAATCATTACAAAATAAAGAGATATAACAGTAAGN  
>916  
ACTTCATAGAGGTCCAGACCCCTTGCGTCTGGCATTCTTTGGTCTATAATTCAGTA  
AACTCTGCTAAAAAGGAAACGAGACTAGCTTGCTGTGGCCCTTAAGCGACCCAGGGTAGC  
TTGTGATGGTTCAGATTATGATTTGTTCTAGAGCTTTTCCAGAGGCAGATGTTGAGGAGTTTA  
TCCTATTTGTCCCTTCCCTTTAAACAAACAAAAGTGCCGGCTGGACGCAGTGGCTCATGCT  
GGTAATCCCAGCATTCTGAGAGGCTGAGGCAGGCGGATCACCTGAG  
>917  
ACTGCCTGGCATGCATCTTCTCGATGGTCTGTTATCTTGTGGGAATGACATTCTGTTA  
AGTTGTTTTCTGTGTGCATCCCACCCAAATAAAGAAATGTTTCATCAGCAAAGTGAATTGCCGT  
ATAGTCATCAGACTCTAGAAATAAATTATCAACGATGACTGCAGTGGGTGAGGCTGTTTGT  
ATCACATCACTTGAGAACAGAGTAAAGTGAGTTTCATATTTTCTGAGTCTTGAATTCTCATT  
TAGACATCTGTTCAGAAGCTTTCTAAGCCATGGAGTATTCTAAATGAG  
>918  
NATAGGGAGTGCACCCACGCGTCCGGGGGAGTAAGGTGGTCAACTATAAACAAGC  
ATTTTCAGTGTATTTTAAAGGTTCAATAATAAAATAAATGTGCAGGACAGAATTTTAGGGACA  
TTAAATGATTAAATGAAAAAGTATTACAATGCTAAAGATTTATGAGATGACTATTTTGCAT  
TGACTAGACTAAAAGTTTCATTTAAATATTAATATGTGTATTACAGTGCTGAAAAATCTTAGGA  
CATTTAAATGACATGGTTACAGACTCTGTCTTTCCAAGTACTTAACAATTGCATTTTCATGGTTC  
TGATGTCACTTGAGAGGCATATTTTATTGAATCGCCTGTATCATCTGGCCTATAAATAGAAGT  
CCCCAGAATATCTACAAAGTGGTAATGCATTAATATAGGGCTTTTACAGCACTTGACAGG  
TAGTAGGCAAACCTGTTGATAACCCACGCTCTGGTCTATTATTGTATTACCACCGGCTATG

Table 4

CTGCTTCACATCTTAGAGCATACTGTGCTACTTGCTGTCCCAGCAATCAATACTGAGTCACAT  
CTGGATGGCTTGAGCAAGCCACCTATGGCGAACCACGCAAGAACCCTTTCTGCTGCCATGT  
ATTTAGGATATGGTTGTGTGTGACTTGAGACTGCTTGGGAGCCATTCTGAACATTTTCATAAT  
GACTTCCTCCATAATCAGTCTGGGAGACCGTAGGGTATATGATAGTTCTTAACATGATTTGCC  
TTCTTGAAGTAGTTCTAAAGAAGACCCATGTTGATCTGAGTCTCATACTTTAGCTAATTAAGTT  
CAAGGGAAACACCATTTATTTGAGGGAATTATCTCATTATTTTTTGCTAACCAACACATTTTG  
AAATGCATTAAAAAAGACAAGTGACCACTGCTGAAAGCTGTTCCCAAAGCCATATGCATAC  
CATCTGGTATTTCTTCCACGCGCCACTGTTTCAGTATTCTGTGGCAGGTGCGAGGGAATCAG  
GGACACATTTTCACTGCCATGAATAAAAGAGCAGGGAAAGTGAGGACATACTTTGTTTTCA  
AGGGGAAGAAAATGATTTTCTTAATATAAAGTTATTGGTAACTTTATAATTGTAGTACTAATGT  
GCAANNNNNNNNNNNNNNNNNNNN

&gt;919

ACTTATCAGGATGAAATCAGAATCACAGTTGGCCTTTTGCCATAAGGGAAGGGTATT  
TGGAGAAGAGTCAACCACCACTCATGCCTCTCCCCTGCCAGCAGCACCTTGGATTTTCCTG  
GCTTTATGCCTCCTGTTTCCCCTGGCTGAGTAACTGCAGGCATTAGGTTCTCTACACACGA  
TATATTACAGGGAAATGGCAGCGATGGTCTGGAAGGGCAACACTGGCCTTCTTCTCCTCTGA  
GCACTAAAACTCTAAACATGCAACTTAAAAAATAATCTAAATGTGAACACCACCTTTTCAGTA  
ATTTATATTAATGTATCATCTCACCTCTTTTCTCCTCTTCCAACGCCCTTCTTTCTACCCAA  
ACTCCAATATACCAATTTGTTTGAACAGTTTACATTCTAAGTGCCAACATTGCTAAAGGAA  
TGGATAAATTGTTGT

&gt;920

ACTGCTATTTCTAGTTCAAAATCACAGATTTTCTAGATTGAAAAAATTTCAATCCACTTA  
TTTTCAAATGAGATAACTGGGACAAAAGAGAAATTCATGACTTGCCCAAGATTACCTACAGT  
TTAACTGTCAGCGGGGCTTAAACCACAATCCACATCTCCTGACTCCCAATCCTTTCACTTAA  
AACAAACAAGCACACAAACAAAAAAGATTTCTAATAAAGTGGAATAATTTTAAGAAAGGCAAG  
TATCACTATTTTACAAGGAAAAAATTAATCATTTTAAACAGATTGGCAAAACATGAACTAGTTC  
TTGGGGGGAAGAGAGTCTTACAAGAAAAAATGTAATCAAGAGAGTGCCAAATTCGGT  
AAAATGCTT

&gt;921

ACTCACATGTAACTTCTACTTTCCCCTTCAGATTACAGCAACCATCATGCCAAAGCT  
ATACACTCTCAGGGAATCCCTGTGGATTTCACTGATGACCACTTGACCAACTATCATAAAGAT  
CAAGGCCAGGGGTTCTCAAACTCTCAACATTTGTGTGCTCATCTCCCCTTCACCCAGAGACT  
CCCCAGGGCTGCTGGGCCACACTTTGGTTTGTGTTGACTGGAACATAGTTTGAAGGGATGG  
AAATTTCCAAAGGTGTTAATAGACACATAAAGATTTTAAATATTAAAAAAAGAAAAAGAAA  
GAA

&gt;922

NNNACTTTACAGAAATACGGAAAGTGACCATGCAAGATGTCAGGGACTCTTCATATT  
TTATCTCTTTCTGAAATAAAATCATTTTGAACCTCTGGGGGTACCTGGCAACTTTCTCACATATT  
GGAACATATGTCATATGGGTTGGCCACAAGAACCTGGCGTCTTTCTCGCATATGGGATCTATT  
TTTAAAGACATATGGCCATAAATGTCCCAAGAAATACCCAGGTAGAGATGAAAGCAAACATG  
TACATATATATAAAACACACACACAAACATGTTTCATGTACATACAGTATGCACTCCCTTCTCTG  
TGTTTTTGTCTGAGTTGATGATTTGGAGCTCAAAGAGCTAGCGGAGGGGAAAGCTGAAGCC  
ATTCAAACACATAATGAGAATTGGAGATGTAAAGAAGGCTGAGTTCTAGGAGTTGCAACAA  
CTTAGGAGATAACAGAACCAATTCGGAATGAGCAGGAATTGTAGGAATGCAGGCGAGGACT  
AGAAGAATCAGCTACATGCTGTTTACTGGCAAAGCAGGAGAAATGTGACTGAGGACAGTATG  
CCACTGAAAACATGATGAAAGAGGAGGGAGACAGGAGGACAGGGCTCTTGTGGGTAGCAGG  
AAGACAGAATGGAAATAAACCATGTTAACAAGATGGCTTTTGGCAGCAGCAGCAGCAGCAGG  
GCCAGCTGTCTCTCTCCTCCAATTCAAGTTACCACCACAAAACCCATTTGCAGTGGGAAGAG  
CTGCTGCATATCCGAGTGGATTAAGGTTATTTATTCACATGTGGACCATTCAATTAATTTTGT  
TTTCTGTGTTTCTTAAATGATTATCATTGGAGGTGCAGCACTGGTGTACTTATGATTTTTTAA  
AAGTGCTTCAAAGTTTAAAGCATTTATTTCAACCAATAGTGAGTTAACCTCTGTGTTATAGAAAT  
TATCTGAGCAAAGGTGGTCCAGCAGGTTCTGTTTATCAGTGGGGATCGAATTTCTGCTGCTA  
AATGGCAAAGAAAACTAAAAATAACAACTCTGGTTTTGTCCCAATCCCTTTCTGCGAAGC  
TAGTCAAAGCCCCAACAGAAAAGATGTTAAAAAATCAAGTACTGTAGCCTTAAAGGTGTCACT  
CAATTTGCATTCTACAGCTAAGTGTAGAAGTACAGAGTATGCTTTATGGCTACCAACTCCGT  
GTGGCAGACTGACATTATCTAAATTAAGCCTGGGATTTTATCAAGACAGACTATCTTCATAAN

Table 4

&gt;923

ACTGTTGTCTCATGCTCTCTTTCTGTAAATAGCACCTCAATTCTACTCTGGGGGACAT  
TCCTCCTCTCTTTTTGGTCTGGAATGTCCCTGGCTTCAGGGACAGCTCAACATGGGCCTGG  
ACAGTCAAATTCATCCCCAAGCTTGGGACTCAGGGAGACCATCCAGTGACTGTTCTCTGAAG  
TGCTGGGAAGGCAGAGCTCCCTTTCTGCGGGGTGCTGAGTGATGGGACGACAGTGTTGGAG  
CTACTGNGCTCTCCAAGCCGGTGCCAGGACCAGCCTGCCTGAGAACGAAGCCAN

&gt;924

ACTTGCCTTGCAAAATTATATTACAAGAAGAAGCACACTTGTTATAGAAGTGCTGAAT  
TGTATGGAACCTAAATCTGTCAAGTTACCCTGTCTTTCAGGGTCCGTCTCCCCACCTCCCAG  
ACCTCATTATATTATCCCGAAAAGAACACGATCTCTTTAAGGCTAGGCAAGTATTGCGCTGAT  
GAGCCAGGGACTGCCCACCAATTGGCAGGCCATTGGGTGATAAATGTCCAAGGACCTCTA  
GGCTGACGACACATTTTTCATCATTAAATCCAGCCTATTGTAACCAGGGCCACTCACATTGATT  
CGGACTAGGGGGGCATCATCTGCTGTTAAGAGGGTGATGACTCGCTAAAAATGAGGGCCTGA  
AACTAATCAAATATATTTAGAGCCTTCCCTGGCAACTTGCTGGGAGAGCAGCAGTAGACAGC  
TAATAGGGGAGCCCCAGACAGGTAGCGCGGAGCTCACCATGCN

&gt;925

NNNNNNNNNNNNNNNNNNNNNNNNNNNNNGGAATAATTAATAAGAGTAAACATTTTAA  
ACATATAAAAAATAACTTTAAATATAGTAACACTTTACAAAATATGTATCTAATTAATAACAT  
TAACATAGCATCCCTCAAATATACAAATATAGAATATATATTCATGAAATCTTTAGAAATATA  
ACATCTATTCTTTGAATAAAGCTTAAATTTGTTTATAATTTTCAAACCTAAGAAAAGAAGTAGT  
GAATAATAGCTCCATCCAATTTATAATTGTCTTAAAGAGAATGATTATGTATCATTCTTGCTT  
GTCTTTTCTAATAACCCAGTCAATCACCTGTACAGCATTGTTGTTTGCTGTTTTCTTCATTCTT  
CAAATAGACCCCTTGAAGTTTTAAGATCCTTTAGATAGAACTTAGAGATTTCAAAGAGACGCT  
GGCTGCATGCAGTGAACATTTCATGAGTCTCGGTAATACTGTGTTTCTTCAGGGTTTCAGTA  
ACTACTTCTTTCAGTATCCGTGTGTGTTTCTGTGATCTTGATTCTTAATTTGCCITGATGTTT  
TTGATTTCATGCATACCTTTTTGACCTGAACCTGGTCTTTGTAGCAAGTTTTGGAGTTTCACAGC  
TAGGAATTGGAACCAATGGACAAGTCACTGGTAAGGACCGCTCTGTTTGTGGCTTTCTGGAT  
GTCACATGATGATGATAGTGATTACTATTACCAGTTGTCTGAGAAAGAAGAGACTCTGAACCT  
TCAGATTTACAAGTCTTTTTCTGGGATAAAGGCAATTCAGATCTTTAGATCTCCGTTTCAATC  
GGGATACCTTCAGTTTCAAGTTTCAATTTGTAAACTTCTCCGTCAGGGACACTTCCAGGATCT  
GACGAACTACAGGAGATGGAAGAGGGCTCAACACAGTAGGTACTGGAAAACCTTCTCTGG  
TGCAGGTAGTTTGAGTTTCTAATCAAGTAAGACGAGACTGAAGTTCANAAAACTCCATCTC  
TTTCCAAAGCTTTTCCGTCATCCAAGCAATATTCAATTCCATGATAATGACATACTGAGGCTT  
TCTCAAAGGTAAGACCTGAAGTTTCCAGGACTAAGTTCTGGTGTCAAACAAAAGTCTTTT  
CCCCCTTTTGAATCGGTAAAGGTTGAAGATCTCCAANNNNN

&gt;926

ACCCAAACACAAGATTGCTAATAGACTGCTAATAATAGAACTTAATAAATGAAATAAT  
TTATTTCAATTTATTGTTGCTTGGAATACAGAAAGTGCTTAGTAAATATTGAATGAATCAACAA  
GTACCTCCCAATATAGAGAAATCACTTCTGAAAAGGATAAAACCAAGTTGATCCTATTCAATC  
GAAGGCATCTTTTGGGGCTGTTACAGTTATTTCTTTATTTGAAGAAGGAATATGATATACCT  
ACTTTGTTCCAAGTCACTGCTTATAATGTGCTAATGGTACCT

&gt;927

ACGCGGGGATTGCTGATGGATCAGTGAGCCTGTGTTTCATGCCAGTGAGCTGCTGTG  
GCTCAGATACTGATACTTTCTTTCCAAACAGCATAAGAAGTGATTGAGCCACAAGTATACTGA  
AGGAAGGGCTCCCTCGAGTTGTGGTGTGAAGAGATAAATCACCAGTCACAGACTATGCACC  
CGACTGCTGCTGTTTCAGTCCAGGGAAAATGAAAGTTGGAGTGCTGTGGCTCATTCTTTCTT  
CACCTTCACTGACGGCCACGGTGGCTTCTGGGGAAAAATGATGGCATCAAAACAAAAAA  
GAACTCATTGTGAATAAGAAAAAACATCTAGGCCAGTCGAAGAATATCAGCTGCTGCTTCA  
GGTGACCTATAGAGATTCCAAGGAGAAAAAGAGATTTGAGAAATTTCTGAAGCTCTTGAAGC  
CTCCATTATTATGGTCACATGGGCTAATTAGAATTATCAGAGCAAAGGCTACCACAGACTGC  
AACAGCCTGAATGGAGTCCTGTCAGTGACCTGTGAAGACAGCTACACCTGGTTTCTCCCTC  
ATGCCTTGATCCCCAGAACTGCTACCTTACACGGCTGGAGCACTCCCAAGCTGTGAATGTC  
ATCTCAACAACCTCAGCCAGAGTGTCAATTTCTGTGAGAGAACAAAGATTTGGGGCACTTTC  
AAAATTAATGAAAGGTTTACAAATGACCTTTTGAATTCATCTTCTGCTATATACTCCAAATATG  
CAAATGGAATTGAAATTCAACTTAAAAAGCATATGAAAGAATTCAAGGTTTTGAGTCGGTCA  
GGTCACCCAATTTGCAATGCTGTCTTCCACTTGCAGAGACCCCAATCCTGGAGCCATCCT

Table 4

GTGCTATAATTTCTTTTATTGAGAAATGGAAGCATCGTTGCTGGGTATGAAGTTGTTGGCTCC  
AGCAGTGCATCTGAACTGCTGTGACGCCATTGAACATGTTGCCGAGAAGGCTAAGACAGCCC  
TTCACAAGCTGTTTCCATTAGAAGACGGCTCTTTCAGAGTGTTCGGAAAAGCCCAGTGTAA  
GACATTGTCTTTGGATTTGGGTCCAAGGATGATGAATATACCCTGCCCTGCAGCAGTGGCTA  
CAGGGGAAACATCACAGCCAAGTGTGAGTCCTCTGGGTGGCAGGTCATCAGGGAGACTTGT  
GTGCTCTCTCTGCTTGAAGAAGTGAACAAGAATTTTCAGTATGATTGTAGGCAATGCCACTGA  
GGCAGCTGTGTATCCCTTCGTGCAAAATCTTTCTGTGCATCATTCGGCAAAACCCCATCACCA  
CAGTGGGAATCTGGCTTCGGTGGTGTGATTCTGAGCAATATTTTCATCTCTGTCACTGGCCA  
GCCATTTTCAGGGTGTCCAATTCAACAATGGAGGATGTGCATCAGTATAGCTGACAATATCCTTA  
ATTACAGCCTCAGTAACCAACTGGACAGTCTTACTGCGGGAAGAAAAGTATGCCAGCTCAG  
GTTACTAGAGACATTAGAAAACATCAGCACTCTGGTGCCTCCGACAGCTCTTCTCTGAATTT  
TTCTCGGAAATTCATTGACTGGAAGGGATTCCAGTGAACAAAAGCCAACTCAAAAGGGGT  
ACAGCTATCAGATTAAAATGTGTCCCCAAAATACATCTATTTCCCATCAGAGGCCGTGTGTTAA  
TTGGGTGACACCAATTCCAGAGATCCCTTCCAGAACTATTATCAGCATGGCCTCGTTGACT  
CTGGGGAACATTCTACCCGTTTCCAAAATGGAATGCTCAGGTCAATGGACCTGTGATATC  
CACGGTTATTCAAAATCTTCCATAAATGAAGTTTCTATTTTTTCCAAGATAGAGTCAAAC  
CTGAGCCAGCCTCATTTGTGTGTTTTGGGATTTTCAGTCAATTTGCAGTGGAACGATGCAGGCTG  
CCACCTAGTGAATGAACTCAAGACATCGTGACGTGCCAATGTACTCACTTGACCTCCTTCT  
CCATATTGATGTCACCTTTTGTCCCCTCTACAATCTTCCCGTTGTAAAATGGATCACCTATG  
TGGGACTGGGTATCTCCATTGGAAGTCTCATTTTATGCCTGATCATCGAGGCTTTGTTTTGGA  
AGCAGATTAAAAAAGCCAAACCTCTCACACAGTCTGATTTGCATGGTGAACATAGCCCTG  
TCCCTCTTGATTGTGATGTCTGTCTATGTGGTGCCACAGTGGACACCAGGTGAACCTTCT  
GGGAGTCTGCACAGCTGCTGTGTTCTTTACACACTTCTTCTACTCTCTTGGTCTTCTGGATG  
GTCTGCTGGGTCCCTGGGGTACGGATCATCTCGGTTTCATCCATGGCAGCATTGAGAGGGGG  
GGGTTGCGGGAGGGGGGCCCTTTTTGGTTCTGTGGTCCGCTGCACTCAAGAGGGTGGG  
TGCTGCCGGGACCCCGTTTGGCCGGCGGGGTGCGGGCGCCACCAGGGCGGGGAGGA  
GGCCCCGGCGCTCCTGCGTGGGAGGTGGAACNNNNNN

&gt;928

ACAAGAAAGAAAACAAATACCAAGTATTTACAGATCCAGAGAAAGTTCACAAGAATG  
GGAGGATGCCAGTTCCAATGCTTTGTAAAGTCAAAAATAGCCACATTGCAAAACAAACAAAA  
AAAAACGAGAACGTTCCCGAGTGTGCCTCCAAAACATAAAGGAGAAAATCATACAGAAAAAC  
CTCATGTAAGGGTTGGAACCTTGAGCAACCAGCTATCCAAATACAGAGGGGAATCCTCGCTTA  
GCTAGGGCATGGCCTGAGAGAAGCCCCCTTCTGCTTTTCAGAGCCTACAAGTAGTCCCCAG

&gt;929

ACTTAAGCAATAAATCTGAGCAATTATCAGGTTATTTTATTGCATTTCTAATGAGTTCT  
TCTAAAAAAGTCAATCAATTATCACTGCTATATATGTTCTGTGTGTAAGGAGTGTCTGAGAG  
TCTTTAATTGTAACATTTATTAATAAGAATAAGAGGACATTTTAAAGGAATTAAGGAACAT  
TAATTCCTTCATAAATGTATAGTGCTTAAGCTCTGCTTTAAAGGTCTTTCCATGTGCTCTTGG  
GTAACCACTTAGGGCTGAATTCATAGTATAAATATCAATAAATGTTGCAATCAAT

&gt;930

NNAGGCATGCGCCACCACACCCAGCTAATTTTTGTATTTTTTAGTAGCGATGGGGTT  
TACTGTGTTGCCAGGCTGTTCTTGAACCTCCTGACCTCATGATCCACCCACTTCGGCCTCC  
CAAAGTGCTGGGTGGGCGTGAGCCAACCGCACCCGGCCCCCAATTTTTTTTCCAAAAAA  
GTAACCAGAAAAGTCATCTCAAGACAGTGTAGAGAAAGCGTTGTGTTTCTCCTCTGAGTC  
TTAAGTGGGGGCTTCATGGGAAAGGGAGGATGACTCACTTACTCTGAAATCTGGGCCCAGG  
AAGGACCTCTCCCATCCTTGGAGCCTCCTCATTCTCCTGTCTCTCACTGTCCCCCACCTCT  
ACCATGATGTCTCATTCTGGAACCCCGAGCAGGGATAGTGGCTTGGGCCCTTCGTCTGG  
CTTTTCTCCCCACACTTGCTCCCTTCTAACATTTTCTCCCTCATCTGACATGGAAGGGGCAAT  
GGTTAACCAGGAGGGAGGGCAGAGAACAAGGGCCCCACATCCTGGCTCTGCCTCTGACA  
AGCTGTGTGACCTTGGGTATCAGCTGACTCATCGGAGAAGTGAGGAGGACGGACTTGGGCC  
GTGTCTGGATATTAACCTTTGTTGGGTCCCTGACCTCTTTGAGAACTGATGCATGCTTCTCA  
AGAGGCCGCAAGTGCATTTTACACACTATTTACAGGCACCCACAGATCCCCAGATTACAGGC  
TCCACAGGCTTCATGTTGAAACTCCTTAAGTGACAGTGGTCAAGGTACCCACCAACACTTA  
TTTAACCTTGACAGTTTGCAAAGNNN

&gt;931

&gt;932

ACAGTATGTTTCCACTTATGGACAGATAATTACGTAGTAAACATAGAAACACACGAAC  
TGAAAGGACACACACCAGTATCAGAACTAAGTCACCCATGGGGAGGGACAGAAGGAAATAG  
GATGGAAAGGGGTTGAGGGACCTCAACTGTATTTGTGATGTTTTAGTTCCTTTAAACAAAAAT  
CTAAATGACATTTGAAATATGAAACAAACGCAGAAAACATCAAATGTCAACAATACTTAAAC  
CTGAGTGTTGGGTGCCTGAATGTTATATTGGTCTCTG

ACCCAGTATATGAGCAATTGCTCAGCAGTGTTTGGATATAGGGAGTGGATAGCTATT  
ATTAATTGCAGATTATTTTGAAGGAAAAACACACAGAGAATTATGTATCTTTCAAGTGTAAATG  
TTAGTTCTAAAAACAATCATATATTTACAAAGCTGCAGTTATAGAACAACAATTTCTGATTTCTG  
CCTCACCCCCCAGGTTAATACTGTAAACATTTCTACGTTTCATCTGATAGTGTATTAAAAA  
TAGCTGTTATTTTTAATAGCTATACTAAACATAAAAAATGTTTAGGCCAGGCGTG

ACCTAATTCATAAGATAAGGATTAAATGAATTAATAATATATAAATCCCTTAGATAACAA  
TGCTAGGCATATGTTAAGCACTATGTTAGTATCATCAAATGTTGTTGTTACTGTTATGGAATTT  
ATCACAAATATGTAATTATATGTTTCGTAGTGATTATTCATCACCCCTACTGGACTCTAAGGTC  
TGTGAGGATATGTCATTATTTGGTTTACCAGCTGATCTCTCAACAACCTGCTGGTTGCTCCCTATTGT  
AGGTTGTAGGTAAATTAAGTGCATGATAGTGAATACATAAAGGTTTACTTTTTTAAAAAAATTCAG  
GAAACCAGATAATCAAAAAAGAAAGAAATTAATCACTTAATAAGTTTCATCTCCAGGGATAAG  
AAAACATAGGTAAGAGAGATTAACTACTCCTTCAAGTTCAGGCAATTCAGTATTCTAATTG  
AAAGTGTTGTGTTTCTTTTTAAGTCTAGTTTTGCTTTTGTGTTTATATGTCATAATTAATTGTG  
TTAAACATAATTTTAGAAACCGATCTTCTATATCCCTCTTTTCTATACCCCCCAATTTTACTT  
CACTTCTTAAACAACAATAAAAGTCTCCTGTAACATAAGAAAGCTTTTCTTCTAATTATCTT  
CTTTAGGT

ACTACAGATTAAGTATTAATATGCTGTGAGTGCAGATAGAGAACAGAAACAGGCTGT  
TTGATTTACCATGGTCAATGCTCTGATGTGCCAAACACAGGAGGTTGTGGGAACATATAGA  
CAGTGACCAAACCTTTTAACTGAATCAGGGAAGATTTTCTGGAAAAGATGCATCTAGCAGACA  
GCTGACAGACGAGTTTACCAGGTTCCAGACTTAAGTGATAAATCTTTTATCATAAAAATTTT  
AAGTGTGGTAGAGAATAAAAGTTTTGAATTAATGTGGAATGAAATGTGTTATG

[illegible]

Table 4

AGGTCAGGAGATGGAGACCATCCTGGCCAACACAGTGAAACCCCGTCTCTACTAAAAATACA  
AAAAGTTGGCCGACGTGGTGGCAGGCGCCTGTAGTCGTAGTCCGAACACTACTCAGGAGGC  
TGAGGCAGGAGAATGTTGTGAACCCGGGAGGCGGAGCATGCAGTGAGCCGAGATCGTGCC  
ACTGCACTCCAGCCTGGGCGACAGAGCAAGACTCCGTCTCAAAAAAAAAAACATTAAAAAA  
AATGTATTTTCATTTGTGACTCCATCTCAAAAAAAAAATATATTCTTTAAAAAGAGAGAGAG  
ACCTGGAGTAGAGATTCTGTCAAAGAACNNNNNNNNNN

&gt;938

NNNNNNNNNNNNCGNGGGTACTTCTAGAATTAATTAATAGATATAATTGATTACTGG  
TCAGAATAGCAAAAAGAACTAGAAAACCTGAACAACACTAAATACCAAGTATACTTCACCAGA  
TATCTATAGAACATTCCACTCAGCAACAGCAGAATCCAGCAGAATATATATTCTTCTGAAGTG  
TATGTGGAACATTCTCCGGGATAGACCATATGTTAAGTCATAAACCGAGTTTCAATAAATTTA  
AAAGGACTGATATCATACCAAGTATGCTCTCTGACCAGAATGGAATGAAATTAGAAATCAATA  
ACAGAAGAAAATTTGGGAAATTCACAAATATGTAGAAATTAACCAACACTCCTTAAACAAC  
CAGTGGGTGAGAAAAGAAATCACAAGGGAACTAGAAAATACTTTGAGCTGAATGAAATGA  
AAATGTAATATACCAAACTTATTGAATGCAGCTAAAGCAGTGCTTAGATGGAAATTGATAGC  
TGGCAAATGTCTGCATTGAGAAGGAAGATCATCTCAAATCAGTAACATTGCCTTCTACCTTA  
AGACTCTAGAAAAGATCAAATAAGTCCAAACTTAG

&gt;939

NNNNCTCTTCTTCCATACTCTTTTAATTGGATATGCCAGTGTGTCTCAGTAATTTCCA  
GTGGCTGTAAACTTTGAGAAATTTGTAGCTTTTAGAAACCACATACCTGTATTGCCTGATT  
GCTTATTAAGTGATCTCTTAGAGGTTTCCAAAGTTATGAGTTTGAGTTTACAAGTGACGTTT  
TTCCATGAAAATTTCAAGTGGTGACAAATATAGAATTTATCATTCAATTCAGTCTTAAGTAGAA  
ATAATTGCATATAATAAACAGGTTCTTGACTGTTCTTTTGTGAGTGTAAAGAATAGAGACA  
AAATAAAGTTAGATTTGAGTGCCTCAGAAGATATTAGAAAATAGAGATAAGGTTTATGGCCTT  
TAAAAAATTAAGACAGTATTGGGGGAAAGAAATGAAAATTTGGGACCGGGCGTGGTGGCTC  
ACTCCTGTAATCCCAGCAGTCTGGGAGGCCAAGGTGGGTGAATCACCTGN

&gt;940

ACTGCCACTTCCATTTTGTAAAGTGAAGCCCAGAGAAGCAAAGAAATGTGCCCTAGGT  
CACATAGCTAGTCGGTGGCAGAGCTGTGATTGGCAGGTTGGTGAATGCCTCCAAAGCCCT  
CGACCTTCCACTATACTTACGCATCTCTAGAGAAGAGACAGAAGTAGCCAGGATGAAGGT  
CTTCAGGTTTAAAGAAGAACTATGAAAAAGCAAAGATTTTTGTTTTCGTGGTTTTTTACTATA  
AAGGAAAACTTTAAATAATAGCAAGAGTGCTATAGGTAAGATATCAGAA

&gt;941

ACCTCGTGGTTGAACTTATTTGGGGACAGAATTGAGACGGAAAAATTTGATATCAAA  
GGAAGTATCAAAACCCTTGATGTGGTTAAGAGCATGGATAGTGAACCTAACCTCTGATGTAT  
GGTGAGAGAGCAAAAGAGAAAGGATTGCAAGAAACTGGAATGTAGAGGATGAACATATTG  
GTAATAATAACTGGTGGAATTGTTATTCAGGAAAAAATAGCAATTATTCCTGTTTATATCTC  
AAATCATTGTATGTTGTTTATTTAAAGGGAGACATGGTAGAAGATATCAAATATAAAATGTTA  
TCCTTCTGGTTTTTCAAATCAAAACCAGGAATAACGCATATCACACACAAACTCATCAATGTG  
GCCAATTTTCCATAACATT

&gt;942

ACATGAAAATGGCTGTTTTTCCCCACATTAGTCAGCTCTGGATTTTGCATGTGTGGG  
GCTTTTTTTTTGATAGTTATTTGTTTTTATTTTAAAAATTTATTTTGCCAACCCAGTAGAGAAC  
AGCTGAGCATCTTCTCATGTATTTATTGGCCATCTGCATTTCTGCTGCTTATTGGCCATGTAT  
TTATTGGCCATTTGCCGTCTGCTGTGAAATGTCTTAAATTTTTTGCCCATTTTTCTAGTGATAA  
AACACTGAAGCACATTTTTAAAGACTTCTGATGATTTTTATTGTC

&gt;943

ACTTCAGGAGATACATTCTGCTAGTTTGGGGTGGTGTGTTCTATAAATGTCAATTTAA  
TCCAGTCGGCTTATGATTTTCAAGTTCTATATTCTTACTGATTAATGTGTATATACTAGTTCTGT  
TACTAAGGAGGGATGTTAAATTAATCCCTAGCTGTAATTGTGCATTAGTTTGTCTCTTTTCA  
CTGTTCTAGCTCCATAAATTTTTGGAGCTGTTAGGTGCATATACGTTTAGGATTATTTTGTCTT  
CTTGGTGAAGTACCTTTTATCATTAGGAACTGTCCATATAACCA

&gt;944

&gt;945

ACCTGCAAGTCCAAAGAGGACCAGGAGGATCCCCGCCAAAAGAAGGGTAATCGATG  
GGACACCAAAGTTATCAGTCAAGTAAGGCAGAAATGCTTGAATGAATAAATGTATATAGATAG



Table 4

AAAGTAGAGACCTTGATAAAGTCAAACCTCCTTGCCCTTACAAGTGTGTGTTTCAGCAGCCATG  
CAAGGGAGATGCCCATCTGGCAGTGGCCCAGGGCAAGGTGTCAGAGCCCTAGTGGCAGGG  
AGATGGCATCCACATATGAGGGAGGGTGACATGGTGCTAACTGGGCATCTACATAGGGCAG  
GGGGACAGTGGTGATGTGAAATTGATTACATCAGGGTNGACGGAGTACCTGCCCGGGCGG  
CCGCCACCGCGGTGGA

&gt;946

NNNNNCCCCCCTCGGAAGTCTTCTAGNATTAATTAACGCGGGATCCTGAAGTTGA  
ACTGGTGCAGCAGTAGTATCGTTATGCTTGTTAGCCTTCATAATCCTTCCTAAGCAATAAAAT  
ACCCATGTGGTGAATCCCAGGACACGTTGAATTACAAGCTCCAAGTTTTCCGCTGCAGCG  
TATCCAAGTGTGCTTGAAAGAAGAACAATAAATTAACATGCTATTTAGAGCTTTCAGGGCTAA  
CTAGATTTTGATGTTGTCATTGTAGCAAAATAGTTCTAGAGTGTGGAAGAAGTTGAAAATGTTT  
TTATGATACAGAGATTTTTATTGTACTGCATATTTAATGAATTATTTTATAAATTGCTGTTGTGA  
AGCATTTGTGAATGACCTGCCTCCTAGCTTTCAATGCTATTGCCAGGCTGACTTTTATTGCA  
ACTGTTTTATGATACAGTTTTGCATTGTATGTGTTTACTTTTTAAAGAAGCATTTCCTGGGAGG  
TTTCTTTTTCTGGTTATGAAAATAATATATGCTTATGGGGAAAAAATTGGAAAAATAGAAACAAGT  
ATCTAGAAGAAAAATCACTCATAATCCAGCACCCCTGTTAATACTTTGTCTTTTCTTACAGTTT  
CTAATATGTGCATGCATAGTATATCAATGTGGTTTTACAAAGAGTGTGCAAATTATGATTCTCT  
TTTTTACATCATTGATGCCATTCTGCATTTTCCACTTAATACTATACTATTGGTACTTTACCAAT  
CCCTTAAGTATTCTCCTACATAGCATTAAAGGTGAAATCTACCACCTCCTATTTTTAATATTT  
ATGTTGTTTTGACTTTTCAGTATAATAAATCATGTTTATATGTAAAGGTTTTATCTCCGGTTAT  
TACTGTAGAATAGATTTCTGGGAAGTATAAGAACAGGAGACATAAAATATTTTTAGGTCATTGA  
TACATAATTTGAAAATGACTCCTAGAAAGATTTAACAATTTGTGTTCTACCAACGGTGTTTGA  
GGGTGCTTTTTCTCATTGTCTCACCAGTAAATGACAATTGTAATTTGTTTATTGCAAGGCAA  
AAAAAAAAAAAAAATTGCAATTTGATATTTAAGAGATTAACTTTTTCTCAGATTTTTATTGGT  
AATTTGATTTCTTTTTAGTGAAGCTCTTGCTTTTACCCTGGCTACTACCTATGATTGTGTTAT  
GTCCTGGAGGAGAGGGGAACCTTGGCTGAGGGGGACNNNNN

&gt;947

ACCAGTAGATGAGAACTACTTATTTAGAGTGGCAGAGCATGCTATAGAAACAAAATA  
TGAGTAATTTCTAACTGTAGTTATGTTATATTAGCATAGTGAGATAGTAACATTAATAGAATTCC  
TLAGTGGAATTTCTTAATGCTTCAGTTCAATCTAAATTAGTATTAATACTTTAAGGCAGGAAAT  
CTGTCCGAAAGCATTGTAAATTTAAAAAGCATTGAAATGAGAAGCAGAAACAAAAATATTC  
ATTTCTATGTATTGCTCTATCTATATTATAAATGATTACTACCATTAATTTATAAAATATTAC  
ATGTTACGCGTATTGTCTTCTGCAGTTACTGATTATAAATTTAATAGTAACAGATGTAGCTT  
TATTACTAG

&gt;948

NNNNNCCCCCCTCGGAAGTCTTCTAGNATTAATTAACGCGGGATCCTGAAGTTGA  
ACTGGTGCAGCAGTAGTATCGTTATGCTTGTTAGCCTTCATAATCCTTCCTAAGCAATAAAAT  
ACCCATGTGGTGAATCCCAGGACACGTTGAATTACAAGCTCCAAGTTTTCCGCTGCAGCG  
TATCCAAGTGTGCTTGAAAGAAGAACAATAAATTAACATGCTATTTAGAGCTTTCAGGGCTAA  
CTAGATTTTGATGTTGTCATTGTAGCAAAATAGTTCTAGAGTGTGGAAGAAGTTGAAAATGTTT  
TTATGATACAGAGATTTTTATTGTACTGCATATTTAATGAATTATTTTATAAATTGCTGTTGTGA  
AGCATTTGTGAATGACCTGCCTCCTAGCTTTCAATGCTATTGCCAGGCTGACTTTTATTGCA  
ACTGTTTTATGATACAGTTTTGCATTGTATGTGTTTACTTTTTAAAGAAGCATTTCCTGGGAGG  
TTTCTTTTTCTGGTTATGAAAATAATATATGCTTATGGGGAAAAAATTGGAAAAATAGAAACAAGT  
ATCTAGAAGAAAAATCACTCATAATCCAGCACCCCTGTTAATACTTTGTCTTTTCTTACAGTTT  
CTAATATGTGCATGCATAGTATATCAATGTGGTTTTACAAAGAGTGTGCAAATTATGATTCTCT  
TTTTTACATCATTGATGCCATTCTGCATTTTCCACTTAATACTATACTATTGGTACTTTACCAAT  
CCCTTAAGTATTCTCCTACATAGCATTAAAGGTGAAATCTACCACCTCCTATTTTTAATATTT  
ATGTTGTTTTGACTTTTCAGTATAATAAATCATGTTTATATGTAAAGGTTTTATCTCCGGTTAT  
TACTGTAGAATAGATTTCTGGGAAGTATAAGAACAGGAGACATAAAATATTTTTAGGTCATTGA  
TACATAATTTGAAAATGACTCCTAGAAAGATTTAACAATTTGTGTTCTACCAACGGTGTTTGA  
GGGTGCTTTTTCTCATTGTCTCACCAGTAAATGACAATTGTAATTTGTTTATTGCAAGGCAA  
AAAAAAAAAAAAAATTGCAATTTGATATTTAAGAGATTAACTTTTTCTCAGATTTTTATTGGT  
AATTTGATTTCTTTTTAGTGAAGCTCTTGCTTTTACCCTGGCTACTACCTATGATTGTGTTAT  
GTCCTGGAGGAGAGGGGAACCTTGGCTGAGGGGGACNNNNN

Table 4

&gt;949

ACCAAGAACTAAATTGTGATACGATAGGTGACTTATGAGTAGCACAGAATGTAATAG  
GCCCATCTCTACCTAGTTCTGGTCACCACACTTCTGTCAAGGTAGCTCGGAGAGACGGTGTG  
TACTTATTCACCACATCATGAGATCACCTCAAAGTGAAGCAGGCCAATGAAAACCGTGAG  
CTTTCTTTACATTAACTTTCTGAAAGTCATTTTTCTTATTCACACTTTGTGCCTTTTTTAAAAG  
CTGCAGCTTCATGGAATTTAATCCTGGTATTTAAACACTN

&gt;950

ACTTGGTAGGTTGATCTCTTTCACTCTCATGGTTTAATTACCATCTATTCAGTATTAC  
TCCCAAACTGTATCTATAGTCCAAGACTGTTTCTAAAAGGTCTGCACCCACATATGCAAATA  
AATACCAGATATCTCTCTTGGTTATATTGCACATA

&gt;951

ACTCTTAGGAAAGAGTAATGGGGTTGAGGATGGTTAATTTAGCCCATCCTAAGTTCT  
GTGAGATTTTTTTCAGAATATTTTGGATGGTTCTCTCACTTTTGTATTAAGCATTTGGGAAGA  
AGATTCTGCAGCCTACTCAGGTGAGCCAATCTCATGGCATTGAACAGAGAAGATATGTTTTCT  
ACGTCTCTAACCAGTGTCTTTCATAGTGTAAGTCAGGCCCTTCTCCTTTGATCTAAGTGGAAC  
CAAGAGGTTAGATACTCCCTTTTCTTTAGTTATATAATGGGCTTCATGTAAC

&gt;952

ACACTCTGTAGGTCTACAGGTAAAAAGCTATTACGTTGCAAACATTATAACGTAATGT  
AAGGTCTGGATTACATGCCTAAAAATCCAATGATTCTTGAACCATCAAATCTGTTAAGACTG  
AAAAGAATACCAATGTTTAAATATATCTATAAAATGCAGGTCAAGGGGGCTAAGAAAATTGCAA  
CACTAGAAAACCAACAACTTAGGTTGTTCTAACATACATACACAAATACAGGAGGGACGTTT  
ATGGGTACATCTGCGAAACATTTTTCCCAAAAAGCTGAATTTTAGGCTTGCCTGTAAGTA  
GATATAGAAGAGTGCACTTTTGGGGATCCTCAN

&gt;953

ACCACCAATAATTATGCCACAAATTTTATCCTAAATAAGAGTGATTCCCTGTTCCCTTTT  
CCTACAGAACATGTTTCTGTCCGCAAAGAGAATAAGAAAACATGACCCCTCCATCCAGAACC  
AAACTAACTCAGGAGTGATTAGAATCACCTGTGGGCATTTTCCCCAAACCACCCACTACTC  
TGATAGTTCTGATAAGCGCTCTTAAAGAAGCTACAGCTCTCCCCATTCCCTATCTGAAAGCA  
AGGAACCACTGCTTTGGTCAGGAAACAGGCATACAACATCAGATGTGANNNNNNN

&gt;954

ACCAGATGTTGTAAAATTTACTATAATTAATAGGAATTAATTAATGAATGCCAAGGGG  
CAGAGCCACACTTCCTATGATAGTTCCTTGCTATAAGGTGCTATTTANNGTTCTCTACATTTA  
CTCCATAGTAAGCTGTTGTTTGAGAAAAAAATGCCAGTTTGGTGCGTAGTAGANN

&gt;955

ACCTTTAAGCCAGATTCATGGTATGAAGGCAGCAGCATAGCACCTCCATTGACCCAC  
ATGGGGGCGCTGCCCTGGGCTTCATCAGCCCTTTGGAGTCTCAGATCCCTCACCTGTTAAAG  
GAGAGTAATACTACCCACTTACCTTTTTGGGTTGTTGTGAAACACACATAAGACAGTATTAGG  
AGAAGTAAGGTCTGAGGGCTGGGCTTTGGACCCAGCGGCCCTAGGTAGAGGCCTGTTGA  
ATTGGATGACAGTGAACCTTTCAGCATTTCTAACCTCAGAAGTTCAAGAGCAGGAGCCTGA  
GTGTTTTAGGTCCCTGGTATGGCTGTGGATTTCCAGGCATGCAGCAGCTCTGGGGGCCCTG  
CTTCTACCCGCCAGTGTTCCAGCTCTTTGATTAAGTGAAGGGAAATTTTTCN

&gt;956

ACTTCTGCTTTATTCAGTCTAGGTAAGAAATGTAATGGATGTGTGCAGGTGACATAAT  
TTCAGGGGATAAGGTAAAAATTAGATGAAGCCCAAGCAAATATTCTTAAAAAGAAAACTTAG  
GATTTTTTTTTACAAAAGTTAACTTAAATGCATTATCTAGAATAATGTTATAAATCAACGTATA  
GAGACGTTAGTGAATAGTTCCTTCATTAGGATGTTGAAGGAATATGGTTTCAATATTCAACA  
AATGTCGTGATGCCTATAAATTTTCTACAAACAAGAGTATGN

&gt;957

ACTTCAGGAGATACATTCTGCTAGTTTGGGGTGGTGTGTTCTATAAATGTCAATTTAA  
TCCAGTCGGCTTATGATTTTCACTTCTATATTCTTACTGATTAATGTGTATATACTAGTTCTGT  
TACTAAGGAGGGATGTTAAATTAATCCCTAGCTGTAATTGTGCATTAGTTTGTCTCTTTTCA  
CTGTTCTAGCTCCATAAATTTTGGAGCTGTTAGGTGCATATACGTTTAGGATTATTTGTCTT  
CTTGGTGAAGTAGACCTTTTATCATTAGGAACTGTCCATATAACCA

&gt;958

ACTCCATAATATAATCTTTTAAATGGGCAACTTCTAAATATTGATACAACCATTAATAA  
TAATGCTTATAGGGTAAAAGAAAATTTTGAAGCACTGAATTCAGTAACCTGGGTCATGGTCC

Table 4

AATTTTGCTCACTACTTCATATCTTTTATGTAGATTATTCCTATAAACATGTTCCCTAAATTCCA  
CATCAGTTTGTAAAGTCAATGGATTAAATTATTCAAATGTAGCTATTTAACGGTCAGTAACAAT  
GCCTAGAAACCTATTTATTCATCTGTAATATTA AAAAGCTGAATTTGATGATCTTGAAAAATCC  
TTTCCAGATTTACAACNNNNN

&gt;959

&gt;960

ACTCCAGCCTGGGTGACAGAGTGAGAATATGTCTCAAAAAAATTATCAGCAGAAGA  
TAATATAGACCCCAAGGCTAAAGGGAACCATTCATCTCTAGGCCTGAAAGCCTAGGAGAG  
GGTGCTGTATGGAGAGGACTGCTTCTGACAGAGGGATATAGCCAACCTTGGTGGCCTAATA  
GAGAGGAAAGTAGGGAATAGCTTCACCTTCCTTCTCTAATCTTCTGCTAGTATCCCTATTAAT  
TTAGCCTAATTAGAAGCTGGAAGGTAGGAGAGCCTCCATGGGCAAAAAGCTGTGTAGAGAA  
CATGGATCCTGAGGGGGTAAATGGCAGATAATCTAGCACAGATTGGTATGATTATCTATACT  
TTTCAGATGAGAACAACCTGAGAGTCAAAATTAAGTAGATTTGCCCAAGGCCATATAGCTGGTA  
GGAGCTATAAATAATTATCTCAAGAAGTCATTATTACGTGGATCATTCAAGAAATTTCTGGATT  
TAGAAAATAGCCTTAAAATATGAAACAAATATTAGCATTTGTTAATTTGAGATGTTATGTTTAC  
AGATATTGGTAAGATTATCATTTTTAATTTATGTGTTTTAAANNNNNNNNNNNN

&gt;961

ACTCCAGCCTGGGTGACAGAGTGAGAATATGTCTCAAAAAAATTATCAGCAGAAGA  
TAATATAGACCCCAAGGCTAAAGGGAACCATTCATCTCTAGGCCTGAAAGCCTAGGAGAG  
GGTGCTGTATGGAGAGGACTGCTTCTGACAGAGGGATATAGCCAACCTTGGTGGCCTAATA  
GAGAGGAAAGTAGGGAATAGCTTCACCTTCCTTCTCTAATCTTCTGCTAGTATCCCTATTAAT  
TTAGCCTAATTAGAAGCTGGAAGGTAGGAGAGCCTCCATGGGCAAAAAGCTGTGTAGAGAA  
CATGGATCCTGAGGGGGTAAATGGCAGATAATCTAGCACAGATTGGTATGATTATCTATACT  
TTTCAGATGAGAACAACCTGAGAGTCAAAATTAAGTAGATTTGCCCAAGGCCATATAGCTGGTA  
GGAGCTATAAATAATTATCTCAAGAAGTCATTATTACGTGGATCATTCAAGAAATTTCTGGATT  
TAGAAAATAGCCTTAAAATATGAAACAAATATTAGCATTTGTTAATTTGAGATGTTATGTTTAC  
AGATATTGGTAAGATTATCATTTTTAATTTATGTGTTTTAAANNNNNNNNNNNN

&gt;962

ACTTGAGAATATGATTGTAAATTTGATCAGCAGCTACAACATTTCAATGATGCATATT  
TTTTTTTCAGATGCATTCCTTTGATTGAATTTAAAGTCAAGCTTGTGCTTCTGGATGGTTGCTT  
TGTCAGTGAACACTTGGATTTGGAAAATACAGCACCTGGGTTGGTTTTGAGAGAAAATGGTT  
TCAACTTTATAATTACAGTTTAAACCACCACAACAACAAAATTAGGATGGTAGTGAAATGGAA  
CTAAATCAAATGCAAGGTTTTAGTTTAATAGAACAATGTCATCCTTTAATAATCTTTAAAGAAG  
AACAACCTAATAACCAATAACAAAATTGAAATAGGTCAAC

&gt;963

ACTTGAGAATATGATTGTAAATTTGATCAGCAGCTACAACATTTCAATGATGCATATT  
TTTTTTTCAGATGCATTCCTTTGATTGAATTTAAAGTCAAGCTTGTGCTTCTGGATGGTTGCTT  
TGTCAGTGAACACTTGGATTTGGAAAATACAGCACCTGGGTTGGTTTTGAGAGAAAATGGTT  
TCAACTTTATAATTACAGTTTAAACCACCACAACAACAAAATTAGGATGGTAGTGAAATGGAA  
CTAAATCAAATGCAAGGTTTTAGTTTAATAGAACAATGTCATCCTTTAATAATCTTTAAAGAAG  
AACAACCTAATAACCAATAACAAAATTGAAATAGGTCAAC

&gt;964

CCGGGCAGGTACACTGCATAAAGCCAGAGTTAAACTTCACTGCCAGCCTCTGAAC  
AGAAGGCTGTTCTATCCACACTATCACAAGACCTGGTGGAGTTGAGGCAACTGCTGAATTAC  
CATACAGGGAAGAATGAATTCAAGAAAATTCCTATGCAAGATAGGCTCTTAAAAAATAAATTT  
ACACAAGAAAATCAGCACTGTAAAGGTAATTGATAAGCCCAATAGAAGGGGAAACCTATACAA  
AGAAATAGAAATAACTAAGCAATCTGAAATGGACTTTAAATAATGATGTTTACAATTCTCTAAG  
AGGAAAAGGAGCATTAGCATCAGTGAAACAAAAGTAGGGCTATAGAAAAACAATACTTTATG  
AAAAAACCAATTGGAAATTTTAGATGGAAAAGCGTGAAATAAAAAATTCACACATGGTCTA  
AAGAATAAACTGCACACAGCTGGAGGGAAAATTAATTAATTTTACGAAAAACAATTAATCTT  
ACAGAATGGTAAGAGANNNNNN

&gt;965

CCGGGCAGGTACACTGCATAAAGCCAGAGTTAAACTTCACTGCCAGCCTCTGAAC  
AGAAGGCTGTTCTATCCACACTATCACAAGACCTGGTGGAGTTGAGGCAACTGCTGAATTAC  
CATACAGGGAAGAATGAATTCAAGAAAATTCCTATGCAAGATAGGCTCTTAAAAAATAAATTT  
ACACAAGAAAATCAGCACTGTAAAGGTAATTGATAAGCCCAATAGAAGGGGAAACCTATACAA

Table 4

AGAAATAGAAATAACTAAGCAATCTGAAATGGACTTTAAATAATGATGTTTACAATTCTCTAAG  
AGGAAAAGGAGCATTAGCATCAGTGAAACAAAAGTAGGGCTATAGAAAAACAATACTTATG  
AAAAAACCAATTGGAAATTTTATAGATGAAAAGCGTGAAATAAAAAATTCAACACATGGTCTA  
AAGAATAAACTGCACACAGCTGGAGGGAAAATTAATTAATTTTACGAAAAACAATTAATCTT  
ACAGAATGGTAAGAGANNNNN

&gt;966

ACGCGGGTCAAAAGGATGAAAATGTTTTCTGTCAGAATGAAATTCAAGAAAACCTTAA  
AGGAAATAAAAACTATTTAGCACCCAGTGAGGTAAAAATCGCAATGTCTGGTGTCCAGTCAG  
TTACCAGGCATGGAAAGAGACAGAAAAACATGAGCCATCATGAGGAGAACAATTAGCAGAAA  
CCAAACCAGAACTGACATACATACCAGAATTGGCACACAAAAGGATATTAACAATAACAAC  
TGCGTTCCATATGTTCAAAAAGTTAGAAACATGAAAGATACAAAAATAAAATCAAACCTTCTAAA  
GATGAGAACTGTAGTGTTGAGGTGAAAAATATGCTAAATGGCATT

&gt;967

ACGCGGGTCAAAAGGATGAAAATGTTTTCTGTCAGAATGAAATTCAAGAAAACCTTAA  
AGGAAATAAAAACTATTTAGCACCCAGTGAGGTAAAAATCGCAATGTCTGGTGTCCAGTCAG  
TTACCAGGCATGGAAAGAGACAGAAAAACATGAGCCATCATGAGGAGAACAATTAGCAGAAA  
CCAAACCAGAACTGACATACATACCAGAATTGGCACACAAAAGGATATTAACAATAACAAC  
TGCGTTCCATATGTTCAAAAAGTTAGAAACATGAAAGATACAAAAATAAAATCAAACCTTCTAAA  
GATGAGAACTGTAGTGTTGAGGTGAAAAATATGCTAAATGGCATT

&gt;968

ACGCGGGCGGGTCTGTGCCCCATCACCATTCTAAAGCACCCCTACCCTCATGGCAGT  
GTCCCAAAGGAAGGGGTTTCCATGGTAACCTCAATGGATACAGTCAGCTGACGTCTGGCAC  
CGCCTGTGCTGGTGTGCGCTAGCCTACTCACTCCCTCGGCCCTCCCTCAATCCTTTCAACTA  
TATTTATTAGTTCTCTTTAATGGAAAGTATATAATCCCTTAATGTCAGACCTTGAGTGGCACTC  
AGCTTTATTAATTTATTTAGGTAATAAATTTACCTTCCTAATTAATTCTCAGTAGTCCTGGGAG  
CTGTATTATTTAAACATCTTGCACAATGTTTATAGTTCTGCGNN

&gt;969

ACGCGGGCGGGTCTGTGCCCCATCACCATTCTAAAGCACCCCTACCCTCATGGCAGT  
GTCCCAAAGGAAGGGGTTTCCATGGTAACCTCAATGGATACAGTCAGCTGACGTCTGGCAC  
CGCCTGTGCTGGTGTGCGCTAGCCTACTCACTCCCTCGGCCCTCCCTCAATCCTTTCAACTA  
TATTTATTAGTTCTCTTTAATGGAAAGTATATAATCCCTTAATGTCAGACCTTGAGTGGCACTC  
AGCTTTATTAATTTATTTAGGTAATAAATTTACCTTCCTAATTAATTCTCAGTAGTCCTGGGAG  
CTGTATTATTTAAACATCTTGCACAATGTTTATAGTTCTGCGNN

&gt;970

&gt;971

ACCAAGATTATGATAGCCTCTTAAACAAATTGGAGGTTATAACCTTTTTCTATTCTCT  
GCAACAGTGGATATAGGATTGGAGTTATTTTTCTTAAGTTTTTGGTAGAAACTAGCCAGTG  
AAGTCATGTGGGTTTGGATTTTCTTTGTAGGAAGGTTCTAATTACTAATTAGCTTTTCAAAAT  
AGTTATGAGAATATTCAGGTTTTCTATTTCTTCTGTGTCAATTTTGTGTCTTTTTCTATAAT  
TTGTTTCATCTATAATTTTAAATTTTTGGTATAATTTTTTCAAAATAATCTTGATTATTTTACA  
AGACAGGATCTTAATGTTTAAATGACAGGATCTACAGTGT

&gt;972

NNNNAAGGAAATTTTTTCCCCAAGGGGGGGGGGCAATTGGAAATTTTGGGGGC  
AAAAAATAACCTTTTTAAATGGTTTTTAGCCCTAGGGGAAAATTTTTAAAAAAAAGTTTTTA  
GGGGAAAAATAGGGTCAAAATTTGGGGATTGGGGGTAAAAAAAATTTTTTATTGACAGAT  
TGAGACCCTGGCTCAAAAAATTTTTGATTATGAGNNNGANGAAGGAAAAGAAAAGAAAAG  
AAAAACAAGAAATTAGCTCATGAATAGCCAGCCTTATATTATAATTATGTGACACTTTGGATA  
TTTCAAAGCACATTCACAAAGGGTATGTCACCTAAATACCTCAAAATTTCCCTGTTATACATGC  
AGATCATTCCCCATTGAGCCCTGGTATGGAAGTGAAGTGTACCTGCCCGGGCGGGCCGCT  
CGAAAGGGCCGAATTCAGCACACTGGGCGGCCGTTACTAGNN

&gt;973

NNNNAAGGAAATTTTTTCCCCAAGGGGGGGGGGCAATTGGAAATTTTGGGGGC  
AAAAAATAACCTTTTTAAATGGTTTTTAGCCCTAGGGGAAAATTTTTAAAAAAAAGTTTTTA  
GGGGAAAAATAGGGTCAAAATTTGGGGATTGGGGGTAAAAAAAATTTTTTATTGACAGAT  
TGAGACCCTGGCTCAAAAAATTTTTGATTATGAGNNNGANGAAGGAAAAGAAAAGAAAAG  
AAAAACAAGAAATTAGCTCATGAATAGCCAGCCTTATATTATAATTATGTGACACTTTGGATA

Table 4

TTTCAAAGCACATTACAAAAGGGTATGTCACCTTAAATACCTCAAATTTCCCTGTTATACATGC  
AGATCATTCCCCATTAGCCCTGGTATGGACTGAACTGTGTACCTGCCCGGGCGGGCCGCT  
CGAAAGGGCCGAATTCCAGCACACTGGGCGGCCGTTACTAGNN

&gt;974

&gt;975

&gt;976

ACCTCTCATTTGTCACCTTTTCAACACTTCCTGGCAGGCAGGCAGCATAACTGGTCCT  
GCTGGGTGATCCAGACCACACTCTGCAACTCTTTCTTCTGAGCCAGGCTCCCCTACTGTCTT  
TTCATTTATGTCAAGGCAGGGGAAGACCTCAAAGGGCTCTTGCATCCCAGTCTCACTTCCCA  
GAGAGGCACGAGGCCCTCCAGGATGTGGGGACAGGAACCTTTGGGGCAAGCCGGGGCTGT  
CCAGAAGATCACCAGGAGGGCTAAATAGTAGAAAGGAGAGTCTTATTGGTGATATGTTTGCA  
AACTGGGAAAAGATAGCCTCCAGTGTGGAGCAAAGATGCTCCTTCTCAAAGAGGGCAAGG  
GCAGCTTGGATTTTGTGCCTTACAGGGTCGGTATTATATAATAGAGTCATGCATATTCAGTAG  
GTTTGGGGGAAAAGCTATATATATTTATGAGGGGAGCCAACTACATGGGCAATGGATAAACA  
TACATGTAACACATCCCATGTTCACTTAGGGGCAGGATTTTAGCATTAAATGAGGTGGAATT  
TGGCTCTTTACATCAAAGGTGAGCTATCAGACACAAAGGCAGTTTGTGCACAAGCTCTCCA  
AAGGGACTTGAGGGCTACAGCTGCTCATCTGGAAAGAATCCTTGTAAGACCAGTCCTCTGTC  
CAACCAGAGTTAGGAGGCATCTGACAATTTGCCTGATTAGCTGT

&gt;977

ACTTTAAAAAGTAAACAAATTTAACTGAAGCATGGCTATTAGTTAGTGATTCTTTGTA  
GATTTTCTGGAAAGTCTTGTGTTGTTGATTAAACATTAACCTGCTGTATGCTGTAAATACAC  
TGCTAAGATCAATATTGAAAAACGAACAATAATACCAATTCATATGGACCTTCAAATTAGTCTT  
ATAAAATTTTATGATATGGTATTATCCAGCCAACTGACTTTGAGACTGACAAAATATTTCACT  
TTAACCAGGTGATTCTTGCAATCTTTGGTTTAAACCTCAAGTTTAAAAATATCINN

&gt;978

ACGACTTCACAACACCAACCACAGGTCTCAAGGTCAAAAAATGAGCTAGGAGTAAAG  
TATCTGCTCCAGAATCTACCCCCATCCCAGAAAGAGCAACCCAACTGTGCTGAGTGGCTC  
TTAGAGTTTAAAGACTCTGAATGAATGCCTAAATTTAGAAAGGGTGTGGACCAAGGGATTTTGT  
GTTAATGTTCTCTAAAGCAGGCTGACTGCCAGGATTTCAAGTCAGTGATAAATTTTTAATTTT  
ATTATTTTTTTTCCCCCGCGTANN

&gt;979

ACCTGGCAGCAGAGTAGGCCTAATATGTGTTGAATGAGTAGGTGAAATAAACAAAA  
ACCTAATGGCGATGGAATTTTATGGAAATAAGTAAACTTCATTATTGCTGAAAATACCGCAGA  
TAAATAGAGGGAGGCAGTGTAAATAGAGTGGAAAGAGCAGTAGACCAGGAGTCAGACAGTCG  
AGGATCTCATTCTAAATTTGAAGGTGAATAGCCATGTGGCTTTAGACAGGACTCTGAACCAC  
CTTGTTTTCTTATCTGTAAAGGGGGGAAGTCATAATAGCTACTCCTGCCTAACTCATAGGTTG  
TTGAGAAAATGAAGTGN

&gt;980

ACATTACCTTTTATGTATGCTGGAATAAGAACTTGTGTCTACATGCATGTAGAAACAA  
TGGAAGGATAGGCAAGAAAATGAAAAAAAATGATAACCTATGGGGAGTGATGGCCACTAGA  
TGACTGGGGACAGGGGCTGGTGAGTGAGCGCAATTATCTATTTAAACAATCAGAAATGCTCC  
CTAAATTACAAGTTTCTAGTTAAATGCAGTAAGAAATCCCCACAAGCTCTGCAAAATAAGTT  
CTGTCAATCAAATCTTACATGATGCATTAACCTGAGCTATTTTAAATACTACCATGAATTCATC  
TTTAAAGTGTGACTTTGTAAAGCAGATAATCCTCCTGTTTTTCATACATTGCGTTTCCTAAAGT  
TGATTACACTACACAAAGAATACAATATTAAAGGACCATTCAAATTAATTAATTTTGTTCCTA  
ATTAAGGTTAAATCAATGTGTATTACCAACTCAAGAAGATAAAGACCGACNN

&gt;981

CCTTTGTTTATCTTTGCAGTTTGGTGGTTTTCTGTAATGATAACATGTGGTTCCATTCT  
CTTTCTTATTTGTGTGCTGCTTTACCAATGAGTTTTATACCTTTGGGTTTTCATGATGGTGAA  
TATAGCCCTTTTGTCTCCAGATGTAGGACTCTCTTAAGCATTTATTGTAGGGTCAGTCTAGTG  
ATAATAAATCCATCAGTTTTTGTCTATCTAGGAAAGACTTTATTTCTCCTGCATTTCTCAAGG  
AGATCTGTGCTGGGTACAGTATTGTTGACTGGCTAACAGAGGACCAATTAATAAGCCAAAGA  
AATGGCTCTTTAACAAATGAACATTTCTGCCATCAACTGACAGATCCCAGGAATAAATGTTTTT  
CAGTGAGGAGACTTCTCTGGTTTTTCAGAACACCTCTGGCTGCCCTGCCACCCCATAGAA  
GGGCTATCCCTCCAGGTGAGTTAGCATCATCCTAGAGCCAACAAGTCAAGGAGGTGAT  
GGTTTGCCTTTGACATCTCTACCCAGACCAGACTCCACTGAGAAGACTCTCCCTTTTTCATCA

Table 4

CTGCCCTACCTAGTTAGTTGGTCCTGCCCTGGGGCCAGAGTTTCACTAGGGGCTGAATAGT  
ATACTGTTAGCTCAGGCAACAGATGAACTCTGCCTCCATGCGCAAATACAAAAAGCTATCTC  
TGCTTCTTTTTCACTCACTTAAGATTTTGAAGAATGGCTCCTAAAGCGGGTGATCATCTGCC  
CTCAGGACCTACAGTGCCTCAGCATCACATGCTATTCATTTTGCACAGCAAACCAGGAAGT  
GAATATGACTGTTATCCCTACTTCACAAGTAGAGAACTCTGAGGCCCTGAGAGGTTAAGAGG  
TGCAGGTAAGATTTGAACCTACGGGCTGTGTGCGGTGGCTTATGCCTGTAATCCCTGCACTC  
TGGGATTACAGGCGTGGGCCACCAACCGGCCCTACTGCCTACCATTTTGCCCAAGCTTCC  
CAGTACTAGAAGAAGCC

&gt;982

ACTTAGATCAGATGGATTGAAACATGACAGCCCCATTTTCATCTGGCCGGTTAAGGTC  
CTCATGGAATGAAAAACACTTTTCGGGCACTCTCCTATGAGAGAGAGAATGGGTTTCTTTAATT  
GCCAGATTGTCTGAACACAGCCTCAGCTACTTCTAGGAATAAGACGAAGCAGTGAGGAAGT  
GCCAGTTGAGTGATTCTTGGGGAATAAATTAGCATTTCAGTGCCAGCTCTCTAAAGTGTTGA  
TTCTGGATTCTGGTAGAAGCCAGTAAAGAAACGTTTTCTCTGGAGTGGAAGCTAGTAAGATT  
TATTCTGTGGTGATGAAGCCATCTGAAACCTTACAAGCAGTGTTGGTTGTATCAGCATATGGG  
AGCTGACTGCCTCAGGACTTTTGAAGCCTGCTTCTCTGTGCCTCAGCCGGAAGTCAAGTTA  
CTCAGTAGTCATTTGCTAATTTCTGAGAACGCAACACTCCTGAAGGGATAGAAAGCATGAAC  
AATACCCAAACTTTTTAGACTAGTACTGTGTGTCAGGTATTGTAACATTCATTTCAGTCCCTGA  
AATGTACAACTAGTTATTGCTCCCCTTTTTCATTTGAGGATACTGATGCCAGATAAGATAA  
GTGGCTTGCCCTGGGTCACATAGCTTGTAATGCCGAGCTAGCATTGTAAN

&gt;983

ACAGTGACATTTCAAGACATGGCCCAATGCACAAGCAACTTCCCAAAGCTGTAATTC  
ACGAGATTCTCAGGGTCTCTAAGCTCCTTGAGGGCAGAACTTATCTTTGTATTACAGCT  
AGCCTTCAATCAGTAGGTGTTGAGCTGATTTTCTTTTCTTTTAAACTCAGAAGTTAAGTTC  
CAGCTTCAGTGGCTATGCCAGATGGTCTGATTCTGAAGGACAAGAGAATTTCAGTGGCATAA  
GCCCTGTGCTTGGCANN

&gt;984

GGTTCTAGCTTTTTAAAAAGCAAATCCCTAGAATCTTAAACAATTGATATCTAGTTT  
GCTAGTATGTGATATTCTAGTCAGAATTCCTCTTGGGAGTGAGTTGGAAGAGGGTTATGGTG  
GTCGCTAGCATTCTCATTTTCAAGACCACTCTGTTCTTTCTTAGACCATGTTTCTCATCTTAA  
GCAGTCATGCCCCGAGCTGGAGACAGGAAACCAGACAGCAGTCTGCCCTGATAAGGGACAG  
CATTGTCTGAAGGCGGGGAATAGCCCTGCTTTTACCCCAACTCAGCTCTCTTTGCTTGAAA  
TTTAGTAGTCATAGAAGAGGCACAAATGCTGTTGACAGTTTCTGAACCAAACTAGGATTTCATT  
TCTTCAAAGCAAAAAAATAGTGTCTCGGCCGGGCGCGGTGGCTCACACCTGTAATTTAG  
CACTTTGGGAGGCGCAAGTGGGTGGATCACCTGAGGTGAGGAGTTCGAGACCAGCCTAGC  
CAACATGGCAAAACCCCATCTTTACTAAAAGT

&gt;985

&gt;986

ACATGGAATACATAATTTTGAATGGAGTCAGGGCTTTCTAATGATCCATTTTGTA  
TTCACCTAACAGCTGAGGAAAAGTCCAGAGAAGGAAGAACTCAAGGTTAGTAGACAACTTG  
ATATTGAGTTGCACTGGCTGCCTTCTTTTTGGTCCCCTAAAGAGTATTTATCATCTTAGATT  
CAGCTTAAGTTGTGGACAAATATCAAGGGGAAAAGTATTTACAGTTAACGTTGGAATCACAC  
GGTTTTCGNGGGTTGTGCCTCTTTACCCTTCAACTTTGGTGGTTCTAAAGAGGGACGATTAT  
TAGTTGCTTTCACTAAGGAGGGGAAGTTCATGATGGAGCAACN

&gt;987

ACCTGGCCTAGAAAATATTTTTTTTTTTGAAATGGAGTCTCACTGTGTCGCCCAGGCT  
GGAGTGCAATTGGCGCAAATCTTCGTCTCAAAAAAAAAAAAAACAAAAATAAACTTTA  
CTCAAATATCACTTTCTGTTAAATGTTCTTAATTCCTTCAATCATCCCCCTCTTCTAACTCTCA  
CAGCACTTTCTTCCACTACGGCACGCATCACACGCCAACTACTCACCAGTTCACGTTTTCCG  
CCCTCTCTCCCACTTGCCCAATCACAGAGTTCTTAAAGAACCAGGACTATGTTCTACTAGTCT  
TTGTAGCCACTGCACTCGGAATGGTGTCTAGTACCTGCCCGGGCGGN

&gt;988

ACTCCTGTTTCTACAAATTTATCTTATAATAATTTGTCAAATGTTGAGTGACAGATTT  
ATTCATTGCAGCATTTGTTTTTCATATCAAAGATGGGAAACATTGTGCAACAATGCCCATC  
AGTAGTGGATTGATTAAATAAATTAGGTATATCCAATAATTGAATATTATGCAAGTATATAAAA  
AATAAGAATCATGAATATGGAAAGATTTGAAAATATATTGCTAAGATTAAAAAAGGAAGG

Table 4

GGCAGAAGAAAATAAGTTGGGTAAAAAAAACCCAGAAATGTTTACTAATAATTATATTTAAA  
AACTCATAGGATAAACAGAAGGTAATGAAATAATTAAT  
>989  
ACATCTCTGGAAGGTGATCCTTCTTATACAGATACCAAAAAGCACTTAGTGATTTATT  
TTTTGTCCAGGACAGGTTTCTGAACATTTCTGCTTGTAATCAAAATGGCCTGGTAAATGTTTA  
TAACTTATTTTAGCTAATTGATGAACTACTGTAGTTTTCTTTAAGTTTATATCAGGATACCA  
AAGCAACATATTTAGCCCCACGTCTGTTGAGTCTTTAAAGGACCTACTAAGATTATTAGTAT  
AGATTCTCAAATATTATTTTTTTCAGAAGGATGTATTCCTCTTTTTTCTGTGGTAGTAGAATTT  
GTAATTAGAGTTTATGGAGAAAAAGGACTAAGGGGAAGGGTGGAGGTCACAAATTTATAAAA  
GCCCTGAACATTTCTCATTAAACACGTATTCTCTGATCATTTTTTCTAGTGTGTTATTTTTGTT  
TGTTGTTTTGAACATCTGAAATAAACATAGGCTGGGCAGGGTGGCTCACACCTATAACCCTA  
GCAATTTGGGAGGCTAACACGGGAGGATTGCTTGAGTCCCGGGAATTCGAGACCAGCCCTG  
GCAACAAAGTGTGAGACCCTGTCTCTACCAAAAAAAAAAAAAAAAAAAAAAAAAAAGT  
>990  
>991  
CGGTACCCTAAAACCTTAAAGTATAATAATAATAAAATTAACCAAAAAACAAAGAT  
TAACAGAAAACAAACAAACAAAAAACTCCAGCATATACATTGAGTCATTTGCAGGTTTGGG  
AGGGGGGGAAATGCTTTTTTGTATTAGGAGAAAGGGAAGTTTTCATTTTAAATGTCTATATTA  
CTTAAAGTTTGAATAAATATTTATTACTTTCAACAGTGAAAAAAATTACAAGAGAGAATATGA  
AATAGCACAGTAATACAGACTATAGTAATGCTAGAGAACATAATGAAAAACAAAGAAAATATG  
GGGGGGAAATAGCNNNN  
>992  
>993  
>994  
ACCAAGTTGTTCTCAAACCTTTCTGTTTGTGTATACAAATCAGCTGAGGCCTTCACTA  
AACTACAGATTCCATGGCCTGGCCCTCAGAGATTTTGAATCAACAGGTCTGAGTTGGGACTA  
GAAATATGCTAATAGGCACCCTGACAATTCGATGTAGGTGGTCTTAGAACATATTT  
TGAGAAATATATTCTGTAGTCN  
>995  
TACCATCATCTGTTTCCCTCTGGTTATAAATCTTTAATGAAAACGGATTTAAAAAGTCA  
CATTATGATGCTCGAAGCTCTGACCTCTCATCACAATGAGAAGCAAAAGACATGCCATAAAG  
ATGATATTTCCACAGGAACGATATTAGAATTATGTGATGCAATCTCATCCAAGGTCATGGTA  
TCAAACCAGACACAGCTAAAAATGTATCATAATAGCAAGGATACAGTAGCAAGGATGGGCCT  
CAATAAACATTTAAAGTGGAATAATCTTCTCTAACTCATATCAAGTACCTGCCNNN  
>996  
>997  
ACCTGGCAACAATAGCTACAAAGGATAGGATACTCAATTGCAAGTAGACTTTTTAAAT  
AAATTCACCTTACTTCTATTCCCAACTCAATCTAGAATATTATTGGTGATAGTGAAAAGACCAGA  
CAGATGACATTACTTCCAAATTTACCAATCTAATTGTTTTACTCACACCTGTAGATGTCACT  
TTAAAAATGTGAATATTAATTTCTTCAAACTACTCCAATTTAAGTAATGAGTATAGAGCTTTGG  
CAACCATTAAGCTCTCTGTTCCCAACTCTAACAATATGTGGTAATGTCTTCCCTGACTTCAT  
TTTATGTTTACACAAAATCAAAGGTTATATTTAAGGTTTTCTACATTTTTTTGGATATTTACCTC  
CTTGTAATTTAGTTTTATATGTCTGTATTACAAAACATATTATTTCAAGAATTTTTAACACTTA  
GAGTAGAAGTGAAATTACAGGTTGAAGATTATTAATTAN  
>998  
ACGTGTTTTACTTGGTGCTGTAGGTAATGCTAATTCATGATAAATTTTGAAGACCACT  
CTAGGGTAGTATGTTTCCAACAGTTTAGGTCTAGCAACCTTGAGAAATACACTTTTAAATCA  
TGACTCAGCACACACACTCACATGCACGTGTGACTTAGACGTTCCATGAAACAATGCTTATC  
TTACAGTGTGTTTTCTGCTCTGGTATTTTTACTTATATTCTATTAATAGATATGTGTGTATAAA  
CTTATTGATATAAAAAATGTGGTCATGATCCACTAAAGTGATTTTACAAGCCACTAATGGG  
>999  
ACTT  
CCACTTGGGTTCTCCTTTTTTATTATTCGGCAAAATGATAAAACCTAAAGCCTGTTTATATAG  
GGTTTTTCATGGCTAGAGTTGTATAAACTGCATTTTGTGAGTTTGAATAAGCCCATTTGAATG  
AGTCAAATTTTTTAAAGCCTCGAGATCCAACAAAGCTGGAAAAAAGTAGGGGTGGGGGTTA  
AATGGTTCATTTGAGATGTTGGCCTTCAGTACCATGAGAGGGGAAAGCAGAACAAANN

Table 4

&gt;1000

ACTAACTGAATATTTATTTAAAAAAGCATTAAATTTATCTATCTATATAACTAAATCTATC  
AAATATTCTTTAAAAACACGAACCAAAGTTAATCTGAAACTCTTCCTGTGAAAAAGTCATGTAT  
TATATGCCTTCAACACAGAATTTGTCATTATTTCTGTGGCATTATACTATGCCCTTTGTCATA  
TGCTTTTTTTCCCATAGAGCATTATTTCCCATAGAACTTTGTATTCTCCACTTCTACCACTT  
TCTTTGAAGAACTCTTATTTACCATTCTTGACTAAATTAGGAAA

&gt;1001

ACCCAGAATATGGTATATCTCTTCATTTATTTAGCTCTTTTAAATTTGTTTTGGTAAT  
ATTCTGTGATTTTTTTTTTTTTTTTTGGTATGGAGGTCTTACATCTTTTGTAATTTATTCCTA  
ATACTTTGGATTTTGACATTATCATAAAAGAAAATTTTCACTGACTTTTCCAGTTTGCTGCT  
GGCCTAAACATATCAGTAATTTTTATATTTTAACTCTTGATCCTATGACTTTGCTAAATTCATA  
TATTAATAGTTGCTCCATAGATTCTTAAAGATNN

&gt;1002

CGCGTCCGCTGTGGTGCGATCTCAGTTCACCATAACCTCTGCCTCCTGGATTCAAG  
CAAGTCTCCTGCCTCAGTTTCGCAAGTAGCTGGGATTACAGGCATGCGCCACCATGCCCGG  
CTAATTTTGTATTTTAGTAGATATGGGGTTCTCTATGTTAGTTAGGCTGGTCTTGAACCTCC  
AACCTCAGGTGATCTGCCTGCCTTGGTCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCGC  
CGTGTCGGGCTATCTCTTTTGTAGCATAATGTAAATTAGTCTTTATCTCTTAGAGAAGC  
ATCATTCTCATATCACATATACTTCAGTGTTTTGTCCATTCTTGAGACAATTAAGTTGTA  
CTTGGCATTAAATTAGATTGTGATCATAAGTCAAATGTCAATTGGTTATAAAGTGGTCATCAGA  
CCATGCAGACTATTACTAATATTGGTTATGTTTAGTTTATTGCAGTGAAAAACAAAATTTAA  
AAGTTATTGTAGAGAATTATCATACCCCCCAAATGTGTCATTGGTCTCCAGGACTCTGTAG  
TCCCCATCCAAGAAAGACTGTGATAATTGTCAAGGGGTTAGTATGGTCTGAGCATGGTTGAT  
GGTGCTCTGTCAATTCTGGTATTAACAACCTGCCAAATGTCTTGATTACATGCTCTAAAAAAG  
TGAGGGGAAGAGTGTAGGACAAATGCAAATAAAATAACACATTTAGCTATACTTTAGTATT  
TTTCATTATGGAGACTTCCATATTTAAGTGACCCGATTTCAAGATTCTTTATATACAGCCAGT  
GGACTTTGTGCCTTAACGTAACCTGGTGATAGAAGACGTGGGGGTGGGATAAGGAGCCCTT  
TCTGCATGTACTGGCGGCCATAATCCAGAGACATGTGTGCCGGCCGAACCGGGGGTGAT  
CTCNN

&gt;1003

ACATCTGTTTCTGAAAGCATTTTTCACTGAACCAATTTTCTATACCTTTTTCTTGATT  
CTTTTCTTAGCTTTTGTATATGGTTGCTATATTTTCAAGCCTCATACCAGTCATATAAAA  
CCATGATAAACTTCATCAAGCATACTTGGGCAAATTTCAATTATCAAGTAAATTTGTAAAGA  
AAAATTTTTTACTAGTTTGGAAATAGATCTACATGTTTGATTTTCTTCTCCTCCTCCTTTG  
TTTCTTGCTTTTCTCTCCCTTTCTAAAAGTTAATGGCTATCATTATCTTCACCAAATTAGT  
GTTTGTATACCCATAAAAATGNN

&gt;1004

NNAAGATCATGCACTCCAGCATGGGTGACAGAGTGAGACTCCGTCTCAAAAAA  
AAAGACCAACACCACATGCTCTCACTTATAAGCAGGAGCTGAATGGTGAGAACACATGGAT  
ATATGGAGGGGAACAACCCACACTGGGGCCTGCCAAAGGGCGATGGGAGTTGGGGAAAGC  
ATCAGGAAGAACAGCTGATGGATGCTCGGCTTAATACCTAGGTGATGGCTTGATCTGAGCA  
GCAAACCACCATGGCACACGTTTACTTATGTAAGTGCATATCCAGCACATGTAATCTGAACT  
TAAAAGTTGAACAACAAAAAAGAAGGAAAATGCGTTAATACCTTATTGTAATTATTTTTT  
GGAAGACTATTTTTATATTCAGAAGAAGTGTCAGAGTCAGCAGAAAGGGATTATTTCTCCAT  
TTACCTACAACAATGGTTTTAAATGACTGGATAGATAGAAATCTTTCAACTTAACTGCTTAG  
CACATTGCATTTTTCTCTGTTTCAAGTTAGTTTTCAAAGGATTACTGACTTTTTACCTAATTT  
GCTAAGGGATGTGAGGCCTTAATGACATATTTCTCCTCAAATAAAGATACAACATGCTTTTAC  
TGTGTGAN

&gt;1005

NCTTCCCAAAGTGCTGGGATTACAGGCGTGAGCCACCACGCCAGCCTATGGTAAA  
TATATTTTGAACACAAAGGTGCTGTGGTACTTTAAAGAAAACTATTTTTACTAGTTTATCTG  
AATGGTCTGTGGACTTTATTTAGAACTGTTTTAGTTTGGACATATCCTTTGCT  
CAGTGTATTTTGTAAAGGTAGAAAGTGAAGCAGATGCCATTGTAGGTTTTAC  
CAGCATTTAAATATATTGAATTGCTTAGCAATGAAATGCAAGTATGCATCTTTTACTTAAAG  
ATACTATTTATGATTACAGCTACAGAGATGAAATAGCATTATGTGTTAATTGTTTTGGCTAT  
AAAATTTAAGTCCTTACAGCATTTGGGGATTATACACTTGGATTTCAAATTTGATAAACCTT



Table 4

GTGAACATATCTAATAGATATTCTGTTTACTTGTAGAAATAATATAATGTGTCTGGTTCTGTTT  
TGTTAGACATTTTTTATGTTCTACTGAATCAGAATAGTCAGTGTTATATTCCTTATTTCAAGAAT  
TCATCTATTTTATGGCTACATCTCATATGTGCTATGAGGACTTCTAGCCAGTGGGTGGCGCT  
GTAATACCGAAGTACTGCACTGCTTTGTTCCCTGTTTCCTTGCTGATTCTTTCTAGTATTTA  
GGTAACATTACCGGATGGCATTCCCTTAAATTCACCAATCTTAATCTTATTTTAAATGGCTA  
CTTTTAGGGGGTGGGGTACGGTAAACTTAAATAGTACGTGTTTATCTCAGTTAATGTCTGGAT  
ATCTATATGCACTGGTTAACAGTCCCGACCGTATATGATGGCGTATTTAGGAAAGATATAATA  
CTGGCCTTTTAAATATAAAAATCAAAAAGAGCGAAAAAGAGGGGGGAAATCCCGGGGGCCT  
AAGCCAATATTAAGGAGAAAGAGGATAAAAAGCGGTAAAAGAGCGAAGATGTAGAAACCC  
GTGAGTAGACAAAGAAAAGTATAGCTGTATANNNNNNNNNNNN

&gt;1006

ACATAGTTCGTCTGCTTGCATTGGTCCCATTACAATCCTGTCTAAATCCTGAAGTAAAAAT  
GAATACCATAGTGAAGAAATTACTTGTGCATGTGAAAGAGGCTGGTCCAACCTCCTTAATTGC  
AACAGGGATTTGATTCTTCTACTAGTAGTTAGGAAAGGTTGCATTAATATTAGTAGTTAAAT  
GTGCGATTCTAAATTTTTGTAAATTTCCCATGAGAGAATAAATTTTTCAAAAATATTCCAGT  
AGGTGAATGGCTTTAATACATGGTATCTGTGAAGATGGCAAATAAAATGACT

&gt;1007

&gt;1008

ACACTGGCTCACCTCTCAGGGCTTTGCTCCTTGGGAGGCTATTCAAGCTCAGCATC  
ACCTGTCTCACATCTGTCTGGGATCCTCAAACCTGACCTTTGTAAATTTCCACTAACTGAAGA  
TTGTAGAGGAAAAAACAATCTTATCGAATTCCTGCTCTTATAGCTGATTTTAGCTATTAG  
GAAAACATCCCAAGTTGAGCTTTTCTATTCTAGAAATTCAGATTTCTTTCTTTTAAAAATTT  
TATCTCCTTTTATAGTAGTAAAAATTTTTCTTTTTTTTTGGAATGGAGGTCTTAAGCTCAGT  
GTCAAAAATAAAATCATTTTA

&gt;1009

NNNCTTCTCTATATTTTTAACTTCCTTGATTCTCACTTTTCTCATATATAAAATGAAAT  
CAATGTTACAGTCAAAATTGCCTTTCAAAAATTCCTTAAGTCTACCCATTTTCAGACTTAGTGA  
AAAATATATAGTCTAGGACCTATAGTATAATAATGCACACTTAAGCGAAGGAAATGGTGAG  
CTAGGCTAGAGAAAGACTAAGGGAGCATTTATATACATTTGCCTAAAATATTTAACTTTCAG  
GGTAACTCGGTTGAGAAGGGATGAGTGAAGAATCTAGAGAGTACCTTCTTGCCTACAGCGT  
TTAGCTCCGTTTGTGTTTGCATAAAGATCTGTTTTCTGACTTCGCATGAGGGGTAGTATGTTCA  
GCTTATTCTCACTATGTAATTAAGTAAATAATAGGAAGAGATGTTGAAATACAACTTTC  
TGCCACCAGACCTTCACTCTATTGCAGTCATTTTCTCCCACTCTCCCCCTCTCTCCCACTTC  
CTCTGAGGATTACCTTCCCCTCTCTCAGCATTCCTCTGTCAGTGGCTTTTTTTTTCTTTGGC  
ATGCAAACATGCTCAAGTCTGTCTTATAAAAAATAAAAAAATNNNNNNNN

&gt;1010

NNNCGAGGTACTCTTTTCAGATGAAAGTGTTCCGGTCACCTGGAACCTGTGAGTATGT  
GGTTTTTGATCTGTGACTAACTGTCACCCATTTCCAGTTTCTCTGCTCCGTCAAATATCAA  
CATTTTACCAGTTTCTCTGTTGTTGCCAAACCTGTCATTTTATTTGGTGTGGCTTCTTGGG  
AACTTCCATGGCCCATTTGATGGGAATCAAACAGTGAAAACAAGGACAGATGCAACAGAGG  
TGGCATCAGGAACAAATGGGTGATAAGAACTTACCTTGGCAGCAGCCCCAGAATGGTCAGG  
AGGAAAGGCACTCTAAGGTATCAGAAGGTAGAAAGGAGAGGTTGGATGATAGAATGGGGAA  
TGGATTCTCCTCGCGTTCACAGAAATGAATTAATGGGAGACAN

&gt;1011

ACTGAGACACTGGATCCTAAGAAAATCAGAGTTATAGCTAGTGGCAGTTATCAAGGG  
AATGCAGAGGTTTCTGTATTCTGAGCATGTTCTGTAAATAGGATAGATAGGCGATGTGGCAG  
CAACAACCTCCCAATTCGTAATGTCTTAAACAACAAAGTTTTATTTCCCATTTATGCCATGT  
TTCCAGCACAGTTTCTCAGAGGGCTGTGCTCCATGCATTTACTCAAGGTCTGGGAATGATCA  
TGGCTACACTATCTTGAGCCACCATATTTGGAACCTGTTGCCACTCTGATGGCAGCAGAAA  
ACAAAAGAAACCCAAAGATCATGTATGAGCTATTCACT

&gt;1012

ACGGGCTTTTTTGTCTTGTGCGAGTAACAGTGAGGGCATGATTAGCCATCTTTGCCA  
GCTGATGTCTTGTGGACACCTGCCTTGTACCACTCTAACAGGCCCGTGTGAGCAGCTCCG  
CTTCTCCTGACAAGCTGCGAGCACAGGGGACAGCACAACTGAAAATCTTACAGATACCA  
CAGCAACAAAATGAAAGCAGTTATGGTGGGCAAGCATTAACTAAAATTTTTTTAAAGGAC

Table 4

AAGCTTTTTTATATTTGACTCCTACTAATAATAAGGATTTGGTGGGGGGAAAGAGAAAATAAA  
TTTCAATAAGATTTTCTCAAGGGAAGCAAACNN  
>1013  
ACGCGGGGGGTCTCACCATGTTGGCCAGGCCGGTCTCAAATTCCTGACCTCAAGTG  
ATCCTCCCCCGTCAGCCTCCCCAAAGTGCCAGGATTATAAGCAGGAGCCACCGCGCCAGC  
CTATTTTGTTCCTAAATTTTTTGTTCCTCAGTCACCACAATTTACCCTGCATAAATCACAAC  
GGTTAACAAATTTAGCATCTTTCCTTCTTTTCTGTGCACTTACGTTTTATGTAGCCAAGATC  
ACACGTTGCATTTTGTCTTCTTAAACAGCGTCTAAGTCATCAGCACTCTATTGTGATGAT  
TTATCTTAAAAATATTCCAAGCGATCATTTTTAGTAACTGTGTAATATTATATCATAAAGTTAAA  
ACATAATTTGTCATTCAATTGTTGAAATTTTTAGGTTACGTATATTTTCTCTTATAAATATGTAA  
ATATGTTTATAAAAAAGTTATATACAGTTTTTATAAATCTTTGTGCATACTTTATACTGTTTCCT  
TAGCATAGAGACTGTGGAATAGGATTTCTTGAAAAAAGGTAAAAGTGTGAGTATGCATATATA  
CTGGTACATATATGNNN  
>1014  
ACTTATTCAGACAAGAGTTCTGACTCTCATGCTTGAGGATAAGATTATACATTTCACT  
ATTACATTGAAGATATTTCAATTTTAACCCAGACTAAGTATATTGTTATTTTAAATGTGACC  
AAAGAAATATTTTCATAGAAGCTAATGCTGAGTCTTTTGATAATTTGCCGTATCTTAGTCAATC  
CCAAAAAATTTATTTCTACTATTTACATATTATCCTAGTGGATATTACATTACTTACTGAAGCC  
TTTGGTTCTATGTTTCATCTACTCAGACTTAATTCAGGAAGAGCTTCATCCAGATGTTTTGTTT  
ATTTGTTTCTCGATTACATGTATGAGATTTCAGAAATTTATGAGATCATAGGTCAAGTGAAAGG  
TCACAGTTGAGAGGTCAAGTAAGAAGCTAAAATTTGTGAAACCAAAGAAATGACAGGACAGT  
GCCAAATGAAAGGTCAAAAGTCAAGTGACAGACTCAGT  
>1015  
>1016  
ACTATTATAATAAGTTAACATATTTCCCCTATATGCGGAAAATGCTGACTATATCTTTT  
GGTTGCTTTGGAACACTATCTCCTCACAACAGTCCCTTGCTACAGAAATGGGAAAGGAAGG  
ACACATTTTGTTCCTGCAACATGGCAACATTCGTAAAACAGAAATGATGTGTGACAAGAAA  
CTAAAGAACTGGACGAAATTCACCTCCATTCACCCTGGTTAAAGCTTCCTTGAATCAGAGATA  
AGAAACAACATGAAAAATCTATTCTTTTAGAAAACAAGTCTTTAACCCAGAGGTTGGTTTATT  
TTGAAAAGGAATTAGACTCTGGGCCACATACCGCTCGTTCAAATATAATGCTGTGGTTTCA  
ACTCCTGCTAAATGTTGCTGTGACTTTTAAAGCAGAGAACTTCTAAAAGGAAGTAACCTAGGG  
AGGGGCTGATATAAATCAGACATCAATAATTCATTTTATTGAAATAGGAGTAGTAGTATGAA  
ATGCTAGCAGACTGTTTCANNNNN  
>1017  
ACAAGTATTATGTATCCATAAAAAATTAATAATCTTTAAAAATGCATATGGGGGTCAG  
TAGGTAAAAGAAAAGAGAACCAAGAGAGCTGCAGCGGGGAGCACAGCTTGCTTTAAACATG  
AGATCCAGCTCAGTGATCATGCGGGGAAAAGGCCCGCATTGCTGGAACCTCCTAATATTT  
AAAAAGATGATGGAACCTTGAAATTTTATATTTAATCTTCTCATTTTTTAAAGTGTGGCAATGTA  
TTGAAGACTTTGAAGCCTCTCTGCTGGTCAAACAAGATGTATCTGTAGGCTGGATTTAGTCC  
ACAGCTGGCCAGTTTGAAAACCTGAATCCTGCTAGCCTTAATTTAAATTTTTTAAATTTAATTT  
GCTTTGATTCCTGCACTCCTGCTCAAAAAATCTTCAATGGCTCCCCACTGTCTGCAAGGTAA  
AGTCCAAACTTTGTCACCAGTCCCTCAAAGCAACCCATGACTATATCCAAGACCCCAAACCAT  
ATTTCTACCTTATAGCCAGTCTCCATCTTCCACCGCAACCAGAATGATAGTTGAATTGTAATC  
TAGGAAGGAAAATATTAGAAAGGCACCAGTCTGGCCATGAGGGCTGCTTCTGGGTCCCT  
AAGCTTTTTCTTTCTGCACTGCCCTACACTGTGCATGCCCTATCAATGAAACCTGTCCATC  
ATTAACCATCCAGCTCAAATACCACCTCTCCACAAAACATCCCTGATGGCCAGCCAAATGC  
CCCTTTGCTCTGAATTTCCATGGGACTTTATATCACTCACATGACACTTACAACATACTGCCT  
TGTTTTGGCATTACCTACATAGCTCATTTTCCCAAACACCTAATAATTCACAGAAGGAAGA  
GTTTGGGTTTTGCACTATATTGAATATCCCTGTAGTGCTTTGTACATAGCANNNNN  
>1018  
ACGCGGGTCCCTTATTTTCTGGTGTTTACTTGGGATGCATCAGTGAACAAAAACAAAG  
GTATCTGTCTTATGAAATTTATATCATAGCAGAGGAAGACTGGAAATGAATAAATAAATAAA  
GAATGGAGTTTGTGGAAAGTAAATAAGTTCTGTGGAAACAAGGAAAACCAAGGCATGGAGGT  
TTGGAGTGCTAAAGTGAAAGGTGTGAGAACAGATTGCTCTTGTCTCAGTTTTCTGTCTCTTTTG  
TTTAGGAAATTTGTCATTCTCTGTATGCTTCATTATAATATACAATAAATATGAATTGTTATAA  
TTAAGATAAATATATAAATATAAATATAAATGTGTGT

Table 4

&gt;1019

ACTTAGTTACTCCTTGCCCATAGACGTGTTTGACCTAGAAAAATTTCTTATACGCAAC  
AGATATTCATGAAATATATATTTAAATAAAGCTTGAAGGGTGAATTAAATAAATATTTACTTGG  
AAGCTACAGTGGGTGAATTAAACAAATATTTACTTGAAGCTACTTTATAGCCACTGGGCTG  
GATTTTCATATACAGAGTTCTTGCCCTTGGGAGTTTACAACCTGCTTAACACTTTGTCTATGCT  
AGAATACATAAAAAAAAAAAAAAAAAAAGTACCNN

&gt;1020

NNNNACAACACACATACTTTAGAGATAATCAGAAGCAAATATTTTTTAAATGCCAGA  
ATATACACATAAGCATAGTTAAATAAAAAAAAAATGTTCACTCTGTTGATGTTAAAGTCCATGGA  
CTCAAATCTCTTTGGACAATTGTGTTCAAAATTTTTCACTGAGATATATTTACAGGTGGGAT  
TTATGTTAAGGCCAATATACTTACTCACAGAGACACAAGAGAATACCAAAGTACCTAATGCTT  
TCAGCCCAGGAGCAGAAAGAGAAGTGGGCTCTTTGCTTTGAGAGTCTCTGAAAATTATTCAA  
TACCCTGGGACAAATTAATGAGGTAGATCCTTCTTTGAATTTGTTAATAAAGCATGCTTGTTT  
TGTCTCCATAAAACAGGCTTTGACCATTAAAGGTTTATATTTTAAATGGGTAAATTTTATTGTAA  
TACACTAATTTTAAAGAAAAGAACTAATCATGGCTTAAAGCAAAAACAGACCTTGGATTTT  
ACCCATAACTTTAAGGCTGGTCATTTTAAACCCTGATTTGACACACTCTTATTATGGTGTCTTTT  
CTCCTTATTTGGCTAAATATTTCTGACCATCATAGCAATCTTTCTATAAAGGAAGCAGGCAA  
GAGAGCTAGAGTGAAAATGTTAAAAACAAAACAAAAAGACAGCATACTGGCTACCAGTTTTT  
CTTAATTAAGATGATCTGTTTTCGCAATTGCGTAAATTAGAATAAAATGTTATTTAACTCAAGG  
ATATTTCTTCACTGAAAGAAAACCTACTTCTACATGTAAACCTGCCATATACTTTTTCAATTAA  
GCAATGGATCAAAAGNNNNNNNNNNNN

&gt;1021

ACTTACAGTCTTAAGATATCCATACACCCCCACATCCGTCCTTTGTGCGAGAAGATT  
ACTGAAAATTTAATTCCATTTATGTCATTGGATTTGTAAAAACCCCTTCTGGATTCAAAGATG  
AAGGCCTCACCTACTTTATTTTTGTCAATTTTACAGACCCCTTATGTAAATGCCTCAAGAGTAA  
GAATCTTGCTCAAGTGATTTTTGTATCTCCAATGGCTAACAAGGAGCCTGACATAGAGTAGCT  
GCTTGGTAAATATGTGTTCAATTCATTCAACAAATACCCCAAGGNN

&gt;1022

ACCGTGTGGGCCACTAATACATAAGCATCTGTGTTGGCTGGGGGTAGGTGTAGGGG  
GTGCTTGGGGAGAGATTTAAACAAACCCTTTCTCTACTTGCAACATCTCTTAAAGCTTGTC  
ATCATGTTACTTCTATTTCTTTAGAGTTCAATTTGTTAAGACGGAAACGTGCTTCATCTTGTT  
CGCTTTTTCTGCATTCTTTGTAACTTAATATTCTAATTAGCCCCAACACGGAAAAGAGTAA  
CACAACGTCTTAGTTGTGCCATAGAGTTAGAATCTATCTATTAACATGTTTTAGTAATAACAA  
GAGAAATAATAAAAACACACCTATTATGAGACGCTGCCCATGCCAATAAATTTGAAACATTAC  
CAGGAATATAAAGGAAGGAAGGAACAGGTGGAGACACTCAN

&gt;1023

NNNNNACTATGGGGAGCTATTATAGAGATTTTAAAGTATGGAAGTTGACAATGATCAG  
AATATGCAGTTTGGGAACAATTACCTCTGGTGTTTTGAAGAAAATAGAATGCAGAAGAGTAA  
GCCTACAGATAGAAAGCATTTAGGAAGCTCTAGTAATAGTCCTGGTAAAAAGTAAGGAAGCC  
CTAAGTATTGCCACTGCAAATAGAAGAGTGGAATCAAAGATAAGTAGGTAGGATTAGAAGTT  
AATTTATGTGCAATGGGAGGGAAATATGGTTAGTTTCAGGTTCTGGTTTGGGCCGTTGGGT  
GGTTGATGGGATTATTTCCCAAATAGAGAATATAGAAGTGGAAGAACACATAATTATGAGT  
GAAAACATTAATTAATTTAGAAAATGTTGTTTGAATATATGTACTTTCTCTAAGTTGGTGAGA  
TAGAACTGCCTTTGGTACACTAGAGTATGTTGGTGAAAATTTGTTCTACTTATGGCATGCTTG  
TCCAACCTGCGGCCAGGATGGCTTTGAATGCAGCCCGACACAACTTTGTTAAAGCATTAT  
GGATTTGATTTCTTTTTTTTTTTGGCTGATCAGCTATTGTTTCATGTANNNNNN

&gt;1024

NNNACCCACAATGGAAAGATGGTCTTCCTGCATTGTGAAGGTTGTTCTCATCAACCA  
AGCCTGCAATGACTAGACATTCTAAAGAGAAGAGTGATGGCAATGGAAAGAGGACACATCCA  
CTTGCCAGGTCATTTCTATCAGTTGATGACATGCCATATGTTATGGCTAGGTCAGCTTTCCAC  
AAGTATGCACATGCAAAATAGAAGTTGGGAAAAAAATCTTTGATTTGGCCCTCTACCAAGTGG  
ATCAGTGTGTAGAGTTTCAAGTTGAGCAAGGTGAGAGTTTAAAGTTGAATCTCCAGTCACTCTT  
TTGAAGATATTTGGTGATGCCAAATTTAATTTAGGATATTATGTAGGTAAGTATTCTGTGAGTT  
CATTTATAGTGTGAATTTACAGGATTTAGCCTTAGTCCGAGAAAAACTGGCCCCTGGCCCAG  
ACTATACACCAGGCAGTTCTAAACATATACAATTCATGTTAAGGAAAAACAGATTTACAACCTT  
ACATTACTCTAAATAACATTTATTTCCATGTGACTTGCATGTCTAAATAAATGAATTTGGCT

Table 4

TAGTAAGGCTTTTCATTTATCTTCATCTAAACGCTTTTCCACCAGTACTCATCACAAGACTCCC  
CAAGGTTATGAAGCAGATTGATATAGAACTCCATTTCTAGGACAAAAACGAGGCACCTTGA  
GAATGGACCCAAGCCATAATAAACTAGTAATGCATTTTCCACACAACCATATAAAATACAGT  
GAGCCCTTGATCAACCTTTGCACAAAAAGAAATGCTCATTAAGTCTTTGATTTTTTAAAAAATG  
GCACTTGTTTTCTAGAAAGAGGATCTGCACACTAACTATTCGATTTGTTTGAATATAGTCAG  
ATTATTATGTCTGTGTTTATTAGGCTTAATTTGAAAAGATTTTGGTTAGTATCTCCACTTCTAT  
GATCAAACTATAGAGTTCAAGACCAGCCTGGGCAACATAGTGAGANNNN

&gt;1025

ACTTGTTTTCTCCCTTCGGACCACTCTCCCCACTAGACAGCTGTATGGCCGGCTCC  
CTCACTCTCCTCAGGTCTATCAGAGGGTGGCCACTGACCTCATTGTCTCAAACATTATATAG  
AACACACACGCACCCATGCACGCACACCGTCGTTCTTCATCCGCCTGGTCCGTGCACTATT  
CCAGGACCTACAGCAGTGCCTAGAACACAGAACATCCATTAGCAACATTTGTTTAAATGAATTT  
ATAGTGCCTAAACCTGCACAACTCTGACTTTGCCTTGCTATTAGAAAATGCAAGGCCAGGCG  
CGGTGGCTCACACCTGTAATCCAGCACTTTGAGAGGCCGAGGTGGGCGGATCACTTGAG  
GTCAGGAGTTCAAGACAAGCCTGGCCAACATGGCGAAACCTATTCTTTACTAAAAATACAAA  
AATAACCTAGGGCTGATGGCATGTGCCTATAAN

&gt;1026

NNNNCGANAGTCTTCTAGNATTAATTAACCTTAGTTGAAAGTGTCTGAACTTGCCAG  
ACTCAAAGTGTAGAGCACAAACAGCAACTGTGCTTGACCGTACTCCTTGGTTTACATCTATTGT  
CTTGACAAAAATATTAATAGCATTTCTTTCACTTTTAGAAATACTCGAGTTTGATGATAAATT  
TAGGTTCACTTTACCCTCATGCTATAAATTGGTGGTGTCTGGTTGGACTTGGTGAATCAGG  
AGATTGTATAATCAACAATTACCCAAAGCAGAGATTCTGATTTAGTAGGCCAAGGGTGGCCT  
ACTAAATGTGCATTTTAAGAAGGCATGTCTAAGGATTCAGGTAGTAGTGAGAGAAGCAGTAC  
TCTGTTTCTGGTACTGAGGCTAATGGTCTTAGTTGGGATAAGGAGAGTGGGGAAGGGGCAG  
GGGGAGATGATGAAATTCATTTATCCTCTGTGATGCTATGGAAGAACAATTAAGATCATGTTT  
CCTACTTGATTTTAGTTGCTAGTCATTTCTTAATCTAAGCACCCCTATAATTTACCTATGTCA  
TCATGCAAAATCACCATCGGTAATAATGTGGGGCGGGGGAAGTCTATACAAGAATATTAAG  
GCCCTGTGCGTGAGCATGTCTATAGTTAAAGACTTAATGAGAAAGCATCAAATTGTGGTGCA  
AACAGCTGAAAGTAGAAGTAAATCACACGTAATAAGATGCAACTTTGGAGGAGCTCAAAGC  
AACAGATACGTTTTTATCCAAAAGGAGTAAACAAAAAATCGTCAACGGCAGTTCCCTTCAG  
ATAATCAACTGATGATTTTCATTTGAAAACCATAATTAAGTACGTTGTTTGTAAATAACTTTTT  
TCCATTTATACTTTTTAATGTTTATTAAATTACTTTTCTCTATAGATATGCAGATAAGATGTTTT  
AAATGTGTAAGTGGTATAAATGTCCCATGTGTCTTTTATTCTAGAGCATAAGAAAAGATGGGA  
AGCTACCTCAAACCTGTTTTGAGGCAAATGTAGTATGAATCCCTAAACATAACACCAGTACTG  
CTAAATGACAGTTATCTAATCTCACTGATGAACAAGAATANNNNNNN

&gt;1027

ACTAATTCCTTTCTCTTTCTAGACCGATTCTAGTTTGTTGCCTTCCCTTTCTCGG  
AAACCCCAAGTTTGTGGATGCTGCAGACACTCTGTGCCCCCTGCATGCTGGGTGCCTGGC  
CAGCTGCCAGGGCATAAAGACAGAGACGATGTGGCCTTTGTCTTAAGAATGAGGTTTGAAA  
GCCCCAGTTCTTCCATGTTAGGTGATTTCTTGCACTCTTGGTATCTGCAGAAATTAGTGTGAA  
TGCTTAAAAAATATTAACAGCTTTATATCATGAAAGTTTTAACATGN

&gt;1028

&gt;1029

NNNNAAACATTTNAGACTCACTGTGTAGCCTTCTTGGGAATCGGGAATTCGCTTAATG  
CTGTCCGTGAAAAATAGCCTTTAACATCTGTTTGATTGAGATTTGTGATACATAGAAGTTGG  
GAGGAAGATGTGGAAAGCCCTAAGAGAGCTACTTGCCAACCCCAACATCAGGTCTGCCTCA  
GTGTTCTAGTCAGGACAGACGAGGCCGAGTCTGATATTAGATAGTCTTTGAATGCAACATA  
AACAGACCACAGGGACTGGTATGTAGCAAATGGTCAATATATAATGTACATAGGAANNNN

&gt;1030

ACTTTGACCTGTATGTAACTCTAGTTACTTTGGTCTTCTCAGGCTCTTGACTCTTTTC  
ACAATTAAGTAGTCTTTGAGGCTCAGCCTGCTTTCTCATAGCTATGCTATGGCCTGGACA  
CTCAGGGGAGTATAAGCTGAGGCAAACATGGACTCATTTGTTTTCTAACTTTCAGGGATTATT  
GTCCATCATTGCCTGATGTCCAGTGTCTTGAAAAGCAATT

&gt;1031

ACCATTGTTTTGTTCAAATCACAATTTAAATACTTCGTGATTTTAGAAAATAATGGAGC  
CACGTTTTACCATTAAAGGTGAGTGATTGTTGAGATACATTTGGCACTGTCCATAGGTTTATG

GCTTCCAAC TTGTTTAAGACCATTC CAGAGTGAGAGCTGATTGCCATGGTTATGAAGCTTT  
CAGGATATAAACTATAAGAATGACAACTACAGCAGTTGAAAATGTGTCTTCAGATACTCACT  
TGCAACTCCCATTTATGTCTCTAGGGATTGAGAAATGAGGATCGAGGGACCAAATCTGGCTT  
GGTCAGTAAGAGTGTAGGTAACATATAAAATATTAATGTTTCGTTGCAGTTAGTGTGGT  
>1032

**>1032**

[illegible]

**>1033**

ACTAGATTGGGTGTGTGATTAAAGAGAAAGACAGGAGTCAAAGATAGTTCCAAAAC  
TTTGAACAGAACACTGGATGAATACTGTTTACTGAGATGGGGAACACTTAGAGAAAAATGCA  
TTTGGAAAGCAGAAATACGATCAAGACTTCCATTTTATGACATTAAAGCTTGGTATGTTTAAT  
CATAGCTATATAGAGGTATTAATTTGGCAGGACAAAAATCATAGTACAGATAAAAATTTAGAG  
TTCACCAAGTGTAAGATGATATTTGATGGCACAGGATGGACTTTCTTCTGGGATTTGAGTATA  
CATAGAGGAAAGATGTGAGGATTGAGCACCAGGGGACTTCAACATTGACAGGCTCAACAGA  
GGAGAATTCCTCAAGAGGATGAGGTTCCACCTTTAGGACCGCCAAAGAAGACTTCCAGACA  
AGN

**>1034**

**>1035**

ACCATTTAACGTGAGTGAAAGCTTTACAATTGAGGGGTTACTCATTAGCAGGACCTGG  
GTTTTGTTTTAATCTCATTAAACCCCTTGTTACCCATTTGATAACAAAGACTTCAAGGAAGAAT  
TTGCTCAAAAATCTCTGGGAGACAGTAATAGCTTCTTGGGCCTGACTGATAAACTTTTTGCCT  
CCAGCAATGGAAATGTGGGAAAATTCCAGATGCTAAATGATCTGGCTTGGACCCAGCAGGTT  
GAGGTAGTGGAGCCTTTCGATTGAGGCACAGCCCAGGACTGCTGCAAGGGAGAGGCACAA  
CAGATA

**>1036**

CCCCACGCGTCCGATCAAACCAGGAGCAGGTGCAGCCCGGAGGCCCCCCCGTGG  
GGAGAAGCGGCTGGGGGGTCCCTGCATCTTGTACTGCGGCCCTCCAACAAGTCGGTGA  
TGTCCTGGCAGGACTGCTCCTGAGAAGGATGGAGCTGAAGCCCCTCCGTGTGTACAGTGAG  
CAGGCTGAGGCCAGCGAGGTTCCAGTGCCGCGCTGTGGGCAGCAGGAAGCTGCTCAGGAA  
GAGCCCTCGGGAGGCGGAGGCCGAACCAGAGCCTCAGGAGCATCACCTTGCACCACCGGA  
TCCGGCAGGCCCCCAACCTTACTCGTCGGAATCAAGGCCCTTGTACACCCGGCTGCAGAG  
AGGGGAGCTCTTCTCCAGGGAGGACCTGGTCTGGTACAAGAAGGTCTTGTGGGAGGCTCG  
GAAGTTCGAGCTGGACCGCATGAGGTCATCCTCTGCACCTGCTCCTGTGCAGCCTCTGCC  
AGCCTCAAATCCTGGACGTGAGGCAGATCCTTGTGACGAGGCAGGCATGGCCACGGAA  
CTGAACCCCTCATCCCCCTGGTGCAGTTCCACAGGCCGAGAAGGTGGTTCTTCTCGGAGA  
CCACAAGCAGCTGCGGCCTGTGGTCAAGAATGAGCGGCTGCAAAACCTGGGTCTGGACCG  
GTCTCTGTTGAGCGGTACCACGAGGACGCACATATGCTGGACACTCAGTACCGCATGCAT  
GAGGGCATCTGTGCCTTCCCCTCTGTGGCGTTCTACAAGAGCAAGCTGAAGACGTGGCAGG  
GCCTGAGGAGGCCGCCAGTGTCTGGGCCACGCTGGCAAGGAGAGCTGCCCTGTCATCT  
TTGGCCACGTGCAGGGCCACGAGCGGAGCCTGTGGTGTCCACGACGAAGGGAATGAGA  
ACTCCAAGGCCAACCTGGAGGAGGTGGCTGAGGTGGTCCGTATCACAAGCAGCTGACCC  
TGGGGAGGACCGTAGAGCCCCAGGACATCGCCGTGCTCACGCCCTACAACGCGCAGGCCT  
CTGAGATCAGCAAGGCCCTTCGGCGAGAGGGCATCGCCGGGGTGGCCGTGTCCTCCATCA  
CCAAGAGCCAAGGGAGCGAGTGGCGCTATGTGCTGGTGAGCACCCTCCGCACCTGTGCCA  
AGAGCGACCTGGACCAAGCGGCCACCAAGAGCTGGCTCAAGAAGTTTCTGGGCTCGTTGT  
GGACCCCAACCAAGTGAATGTGGCTGTACCGCGGGCCAGGAGGGGCTCTGCCTGATCGG  
AGACCACCTCCTTCTGCGCTGCTGCCCTCTGGCGTAGCCTCCTGGACTTCTGCGAGGCT

Table 4

CAGCAGACCCTCGTGCCTGCCGGCCAGGTGCGCGTCTGCAGGAGGCCAACTATGCCTTCC  
TGAAGAGCCCTCTCCACCTGCAAGGTGCCAGGACTGGGCAGGGAAAGTCCACGGGGCCCC  
ACGAACGGACCACGCCCTGCGACATCACCCGCCCGGGCCAGCCTGCCTCCTGGCCTCAG  
GCTCCCCTGGGCCAGGACACTGAGTGAAAAAGAAAGAAGAACGGAAACAGCAACGAGACC  
CGCAGCACACCAGACCACACCTGGCCCACCAGGCAACCCAGCACAAACCAACAATGACACT  
CAAAGCAGCAACCTGCGACCAGCGACAGTGAACACCAGAAAGATCAAGGACCAGACACCAG  
CAAACATGTAAAGAGAATCCGTGTGAACGGAACAACAACAAACAATAGAACAACACAACAG  
ACACACAAAGCGACAACAGCAGACCGACTGAAACACCCGGCGTAAGCAAGCAGCAAGACTG  
ACCCGGTATCTATAGAAAGAGAGAGTCACTCGCTACATCACAACATCACTAACTGAGGACAC  
GCGCACGAGCAGCCACACAGCGAAAACGAACGACCAAGACACAGCAGACCCGCGAGCGAT  
AGCAGCGCACAGCACAGACATCACAGCAGCCCTACGCGGCCCGAGAACCCGAACAGGAG  
AGACGAGCACCCCTGCCAGACGAAAATGAACGAGCAGCCAGAAGAGGGCGAGGAGCGACCG  
AGGAAACAAAGGCGCAGAGGGAAGAAGAN

&gt;1037

ACCATTTAACTGAGTGAAAGCTTTACAATTGAGGGGTTACTCATTAGCAGGACCTGG  
GTTTTGTTTTAATCTCATTAAACCCCTTGTTACCCATTTGATAACAAAGACTTCAAGGAAGAAT  
TTGCTCAAAAATCTCTGGGAGACAGTAATAGCTTCTTGGCCTGACTGATAAACTTTTTGCCT  
CCAGCAATGGAAATGTGGGAAAATTCAGATGCTAAATGATCTGGCTTGGACCCAGCAGGTT  
GAGGTAGTGGAGCCTTTTCGATTGAGGCACAGCCCAGGACTGCTGCAAGGGAGAGGCACAA  
CAGATA

&gt;1038

ACTTTGACTATTTTTTAGCAACAAATTACTTTTGACACACAGCACAAATTGATTTAACAC  
TTCCAATTTTGGAACTATTGGATAAATAATGATGGGATTTAAATAAAGCAATCCGATTCTACTA  
TTACAGCATAGGGTCTCTTGTAGTCCTCTTAGTAAAACTATTGTGACACTTCTTCTTTCTCC  
AAATATTCGGCCTGGAAAGACCTAAATACAATGCAGGGATTGAATCAAATTCACACATTTTTT  
TTCTACGGAAACAACAACCTTTCTTGCTTATATTTAACAAAACTAGTATAGATTCCCTTTAT  
ATTAATAGTTATATGGTATTTTTTTCTCAGAGTAGAAATCAGGTTTATAGGCTAAGAATATAGG  
CTAATTTGGAGCATAACACTAACCAGCATGAACCTAAGTGAGTACN

&gt;1039

ACTTAGATCAGATGGATTGAAACATGACAGCCCCATTTTCATCTGGCCGGTTAAGGTC  
CTCATGGAATGAAAAACACTTTTCGGGCACTCTCCTATGAGAGAGAGAATGGGTTTCTTTAATT  
GCCAGATTGTCTGAACACAGCCTCAGCTACTTCTAGGAATAAGACGAAGCAGTGAGGAAGTT  
GCCAGTTGAGTGATTCTTGGGGAAAAAATTAGCATTCAAGTCCAGCTCTCTAAAGTGTGGA  
TTCTGGATTCTGGTAGAAGCCAGTAAAGAAACGTTTTCTCTGGAGTGGAAGCTAGTAAGATT  
TATTCTGTGGTGATGAAGCCATCTGAAACCTTACAAGCAGTGTGGTTGTATCAGCATATGGG  
AGCTGACTGCCTCAGGACTTTGGAAGCCTGCTTCTCTGTGCCTCAGCCGGAACCTCAGGTTA  
CTCAGTAGTCATTTGCTAATTTCTGAGAACGCAACACTCCTGAAGGGATAGAAAGCATGAAC  
AATACCCAAACTTTTTAGACTAGTACTGTGTGTCAGGTATTGTAACATTCAATCAGTCCCTGA  
AATGTACAACTAGTTATTGCTCCCCTTTTTCATTTGAGGATACTGATGCCCAGATAAGATAA  
GTGGCTTGCCCTGGGTACATAGCTTGTAATGCCGAGCTAGCATTGTAAN

&gt;1040

ACTCTTATCAACTGTTTTATAGATGAGAAAACATTAGCCACAGCTTAGCTTATTTGAA  
GTCACAATAATATTAAGTAAGAGCAAAAGCCAAGATTCAAATGTAGATTATTTACTACA  
GACTGAGAAACGAATTAAGTGGAGCCTAAGATACTTTCTGGAATTGAAATGATACATTATA  
TATACCTATAAAGATAATTGGCTATAGCTTCTTAACTACAAATTGTCATAAAATGACTTCTG  
TCCTATATCAATTAGAACTGGTATTAAATGAGTATTATAAGACAATAGAATGN

&gt;1041

NNNACTGCAGGGCCCCAAGAGCATACAAAGCTAGTTATTTGGATCCAAAGTTGGTCAA  
GTGTGCAGTGTTTAGACATCATGATCTAGGCAACAGAAATCCTGGCCTGAAATATGTCACT  
AGTTAGAAACATTAGAAGCTTTTCAGGTAAATAAATATAAAAAACCAAGTCAACCGTATTCTTATT  
TCTTCGTCAGAGAATCATGTGTCGTTTGGTTTAACTTCTGCTGGATTCTGGATGGGAGTTGT  
TGAACATATTAATCTCATTATTTCTGTAGAGGACAGGTTGTCCCCCCTTCTCATTAGCGC  
CCTGACTGCTTGTAGGGCTCTCTGCCTCTGCGCCCTGTGACCAAGCAGCGTTGCTCCAGCAG  
GCAGCAGTGCGTGGGCCTGCTCTCCATGGCAGAGACAGGGCTGTGAAGCTTGGGT

&gt;1042

ACCCTGCTTTGATTATTTCCGAATCCAGTGGGTAGAGAAGGTAAAGGCAAGGGCTC

Table 4

ACTGGATATTTTAAATTGTAGGGATGTCCTTTGCTCTGGGTCAATTTTAGGATCAAATATAAA  
AGCACCTATAGCTCAGAGTATCTTCTAACATAAAACTTCTGAGATACCAGAAATTTTCCAAAA  
CATGGTATAAACAGTATGAAACACTGGGTAGATAAAAGCTTTCTCTAAATCTTAAAGTGCTCA  
AATATCATGACCTGATTTTTAGTTTTAGAAATCAGATATTTTCTATTCCATATCTTAACTTT  
CATGTTAAATTCTAGTTCTGACAATGTAGGGTTCTATTTTTTTCAGGTGATTGTTGGGAGCGT  
ATAGAAGCATATATAAATATGGAATATGTGTTCTTTTTTCCCCTTCTGAAAGAAAGTCAAGCC  
TCTAATCAAATAGATTGATGCTTCAGAACTTAACAGAATATTATCTGCAATTTGGCATAAATG  
CATNTTCTTGGGGAAGTTTCCATGGTCAAAATTATTAGTCATTGCAAAACAGAAAAGTTGA  
CAACTGGAAANN

&gt;1043

ACCCGTTTGTCCATGGCTATTCCAAATACCCCCATGTTTATTTAAATGTATATATAAT  
CAGTTACATAAAAAAGAGGTATGCTTAAATTCTCATGACTCTATGGTTGGACCTCTGTGGTTGG  
AGCAGGCAATAGAAATGTCTGTAATTCATTTAAAAAAGTGACTTTCTACCTTTAGATA  
GTGAGGACAATCTGTTAACTCTTTGTGTTGATAAAGCAAACATTTTCAGGGCACGGTGAAAG  
AAATCTCTACCATGTATAAGGTTATATATATACCAGAAGCAGTGGAGTTAGGACCAATTAAG  
ATTTGAC

&gt;1044

&gt;1045

NNCGTCCGGTTCTGACCTATTCCAAGAGTACAGCCATCAACAGTTAGTCCCAAGAGT  
TGGAGGCATTGTTGGGGAAAGAGATTGCAATAGACTGGTGCAGATCAGTTACCTGAAGCTC  
CTGCCTTATCTGAGGCCTGGTGATGCTGCTGTGTGCCCAGAAGCCAGTCATATGGATGTCTT  
GACCTGTCCAGCACACACCTCAGTAGTAGGAGATATGGGTCTTTGGAATGCTTTATGTGTGA  
TGAGGATGAAACAGTTAAGTGCTACTTTCTCATCCTCGGCCTTATGACATTAGTTAGTTGTGT  
AAGATTTTGCAGGGAGGTATTCCCTCCTCTACCCTTTCGTCACAAGCCCCTCTCATTCTCT  
GAAAAGGTTCCATACTCCAGTCCCTACCCTCAAAGAAAGATTTTACTAAGCAAAGTATCTAT  
GGCTCTCTCTGTTCTCCTTGCTTAGCTAGCACAGCTAAACTGGGATCTCACCAGTCTGACA  
GGCAACCTCCAAGATTCACAACCCAGGAAAAGTACTGCTTTGCGTAAGTTTAAATCAAGACC  
AGAGCAGAGACAGGACACAAAGTCAAAGAAGTCAAGTCAAGC

&gt;1046

ACAGCACTTTCAAAGTAGTGGAATATAAATCTTTCCATTTAACAGCAACATTCAAATA  
TTTCCCATTCTGCTTATTATTCCTCTCTGAAGGTGATACATAGAAATATAGGAGCAAACACAG  
CAATGCAGGCGCTCTATGATCTGGTTTGCTCACATAGATCTTAAAGGAGAAGAATGAGGGA  
TTTGCTACAACCCACAGCCAATCTATGTGGACACAAAGGGTGACTTCTTCTTCTATTACGT  
TCCTTGAGGTAGAAATGGTAAACTAGCATGACCTCGAATCATAATTTAATATCATTCTAN

&gt;1047

ACATTATTGGTAGTATCTCAGAATCCTGCTTAGCTTTTGAGATAAACCAAGTCATGAT  
ATTTTGGGTAATATGGCCATAGGTATCATGCAAGATTGAACTGCCAGTATTTGCCTTTTTCA  
ATATTTACTTTGTAAGAACCTGACACTGTAGGTCTCACCACACCAAAACCTGCAACATAAAC  
TTCAATTTTGGGCAACTCATAGACCAAAAAAGCTAAACAAAACAAAAAGGAAAAAACCTCTA  
TATACAATCACCCTGCTTGTCTACATTTAATTTGCTTCATTANAATAAGCAGTCACN

&gt;1048

&gt;1049

GGGGACATTTAGTTCGGGCATGAAAAAGAAGTTAACAAGCAAAGGTACCTATAAACA  
AAGGCATCATAAATAGATATAAAGCCAGAAGAAAAGGGATCTAAAGTAGACAGAGAAGATAG  
GCTGACTCTCCAGTTGCAGATTTTCATTATCAGCTCATCACACCACCGAAACTCTCTGGTGAT  
TTGCTATCCACATCCATGGCGTTTGGTGGCCCTAAAGATTGTAACGGCCCCCATCCTCTTGG  
TTAAATGGCAGGTGTGTTGACAAGAAGTGTCTTAGGTACCCCTGCCTGCTGGGCATCACA  
TTCTTCTTGGTATATATTAAGAACAAGTTTGGGCCAGGCACGATGGCTCATGCCTGTAA  
TCCCAGCACTTGGGGAGGCTGAGACAGTGGATCATTGGCGGTGAGGAGTGCAAGACCAGC  
CTGGCCAACATGGCAAAANNN

&gt;1050

&gt;1051

ACCATCTCTTCCATTCTGGGAATCTGGGAAACTAAGCCTGTAACCTGTAGCTTGTA  
GAATGAATGATGGAGTAGAATAAATAAGAAAGGAATATATCATTAAATGCACAGGTTAAATAA  
ATAAAAATCTATTAATAAAGAGCCTAAAGAAAGAAAGATGACATTTTCAGCACATATTGGGTGA  
AATAAGTTGTTTAGTCCAGCACTTCTCAATTTTTAGTGGATATGTGAATTGCCTATTAATGC

Table 4

AAATTTTAAATTAGTTAATCTGGGTTGGACCTGAGTCTGCGTTTCCAACAAGCTCCCAGGTGA  
TGTCATGCTATTGGTCCAAAGACTATGTTTTGTGTAGCAAGGGTTCTAGATACAATTACATT  
AGAAAAGATCAGAGAAAAGTGGAGTGATTGT

&gt;1052

ACGCGGGTATAGCTATATACTCATATTTTTATTTTTATGTAAAATTTCCAAAATGCTTA  
ATATGGCAGTATAATAATTATACTAGATTTACTTCAAAACATAGACATAAAGAAGATTACATG  
CCTGTAGAAGTTTCATTGAATTAGGAATCACATGCTATTTATTTTAGCAGATATCTTCTTAATTA  
AATGTTTGACCCATGTGAAGTCATTTAACAGATCTGTTACGCATTATTCACATATGCAAAATAA  
TCTATATGATCTGAATACCATTTCATCTTTAAAATTACATATTCCT

&gt;1053

ACAATCAAAAAAAGACAAAAAAGAAATGGTGTTAAAAGCCACAGTAAACATAAACCTC  
ATATCAAGTATAAAACACACACACTTTGCTCTTCATCCGGACAATGCCAAAATTATACTGA  
GGTATTGGGGTGGGCTGATACCTTCAAACAGGGAGAGAGGGACCATGTTCAAGAGGTGTAT  
TCCTCGATTTAGGTGGTGACTGAATTTTTTTTTTAAGACAGGGTCTCACTCTGTCACCCAGG  
CTGGAATGCAGTGACGTGATCTCGGCTCACTGCAGCATCAACCTCCTGGGCTCAAGCGATC  
CTCCACCTCANN

&gt;1054

ACAATGAAAATTACAAAATACTGTTGAGAGAAATTAAGAAGACAAATAAATGAAAAG  
AGACGGAACATGTTTTCGCTTGTAAGTCTAGTAACTCAGTAGGATTAAGATCTCTTCTCTCCCACGACTC  
TATAGCTTTAAAGCAATCAAATCAGACTGGTTTTGTCTGAACGTTTTTGAATAAGTCAATGG  
CTTATTTCAAATTCATATGAAATTTCAAATGCCAAAGAATAGGCAAAATATTTAGAAAAGAA  
GAAAGATTGAGGATTTGCAATAACTGACTTCAAACCTCACTAGAAN

&gt;1055

NNNNNCAGGCTAGAGAGATGTTGGAAATAGTTGTTAAATTGGCTTAACCTTCTCAGG  
ACACCTTGTAACCCACCACGTTTCATGTCTCCTCTAGCCAATAAAGTTATTAACACAAGAAC  
CCTGTCTTATTCATCACAGTATCACCCACAGGGGCTGAGACAGTGCTTACACAGAAATGGCC  
CTTGATAAAATATGGGCTGAATGAATGAACATATGAATTTGACACTTTGAGAATAAATTA  
GTTATTTCTACTAGCATTTTTAACACAAGAACTATTGAGATTACTTATATATTAGTAGTAAATG  
TTTGCTTTATTCATTTGATTGGCAAACCTATAATGAACTCAGTGAACTTGTCCACCTTTTTCT  
ACATGTTGAAATTTTCAAATCCATAAGATTACTCCTCACACACACACCTCCAAGTATCCATA  
GAGATGGACCTACTTCATACCATTATATTCATAATCCAATTATTTCTAGAAATCCCATTGATT  
CAGGGAACCTGAATTTGATAGCCAGGAGGCATTCCACTGGCTTCTTAAAGCN

&gt;1056

ACATTAACCTCACTGACTTACTCTGGGTTGCTATTGTATTAAAATTCTGTATAGACATTA  
CGTAGCCTCAGAGTTGAATTTGGACTGCCCTTAAAAATAAAAAATTCTTAAATCTTTAGTGTGG  
TGTCTATTAATTTTTATGATGATTTACAAGTTGGAAATGATTACTTTGCAAGTCATAGTTTACTT  
TGAAGTTAATAAGAGTGATTACAGTAAAGGAAAAATGCCATATATGGCATTGTTCTTAAACAGC  
TTATGAAATTTGGAAAACGATATTTTAGAAAGCTTCTCTTGTGGCTGGAATGAAGN

&gt;1057

ACAGCTTGTTCAAGATATTTCTTCTATTTTTCTTTGAGTTCTTGTTTCATATTTCTAGTT  
AATTTCTAGTAGTTCTTAATGTATTTTAACCAATAGACTTTTGCTTCTCTGCTTATGTATTC  
CTCGTAAATGCTTTTTGTGACTTGTCTAAGTATAAACAACCTTACTATTAGCTGAAAAATTTTC  
ATTTTTAGTATGTCATCAATCTTTTTTTGTGTTTAGTATGATTAAATGTTTTTCACTTGGAAGA  
TATGAATAGTCTACTTCATTGATTTTTTTTAAAGTCATTTTATTTTTATTTTTGTAGCTACAAAA  
TCAN

&gt;1058

&gt;1059

ACTTTAACAAATTA AAAACAAATTTTAAATTTAAAATATTTTAGAAATTTTACTTAATACA  
TTTATTTAATGAAGGGCTGCTTTTAAAGAAAACCTTAAATCCTCACGTAAACCACCACCACCTG  
CAAAGTATTAATATTCACTTTTTCAACAAATGCCTGCTATGTATAAGCTACTGAAAGAAGAC  
AAAAATTAATAAAATGTGTCCTCCTCTTAGATATCTATAATCTAGGAAAATGAACACATTCTT  
TTCAGACACTAACTCCATAAGAACAGGCATCAGATCTATCTTATTTACCACCACATCCTGAG  
AATGGAGCACAGTGCCTGACACATAATAGATGCTCATAATAGATGCTCAGGGTTTATAGTCA  
GTGAATAAGTAAAGAAATGAGTGAGCAAATATCTCTTAAAAAGAACAGACTTTTAAAGTTAAC  
AAGCAGTGATGTGTTATTCAGTAGCAAATAAGATTGTTTCTAATGTCATAATTCAATTNTCCC  
TGCTTCTACTATGACTAGATGTTGGTTGGTGATAGTTTATATGANN



Table 4

&gt;1060

CCCTTCGAGCGGCCGCCGGGCAGGTACAGTTACCAAACCCATCCAACTAAAAAT  
TTAAGCTTTTTGCATTTTAGTGGATGCAAATTGTGTCTTAGTAAGAAGAACATACAAAACCTAA  
GAAAGATAATGTTGAAGAAAATAACAAAGCTTAAGGACTTAACTATTACCATCAAGACATGT  
ATAACTACAGTAATTTTAAAAACTGTTTTCTTGATAAGTATAGAGAAATGTACCTCGGCCGC  
GACCAC

&gt;1061

ACTTACGCTTTATGATCTTGAATATTTTCAGTGTTTAAGGAATCTCTTCCTTCTTTGAT  
CTCCACTGCATGNAAGAACTCTGTTGCAGGTGTTAACAAGGAAGTTTGAATAGAAAGCCAG  
AACCTGCCCCCAAAGATCTGACAGTAGTAGAAGGAGATCCATTATTAAGAAGGTATAATGG  
CAACANAAGAATAATCACAAATTATCTGTGTGTGTAATATGTGTTGTGGTGTGGGTCAAGG  
AGATGAGGAAAGTGTTAGGGAAN

&gt;1062

ACTTTAACAAATTA AAAACAAATTTTAAATTTAAAATATTTTAGAAATTTTACTTAATACA  
TTTATTTAATGAAGGGCTGCTTTTAAGAAAACCTTTAAATCCTCACGTAAACCACCACCACCTG  
CAAAGTATTAATATTCAACTTTTTCAACAAAATGCCTGCTATGTATAAGCTACTGAAAGAAGAC  
AAAAATTAATAAAATGTGTCCCTCCTCTTAGATATCTATAATCTAGGAAAATGAACACATTCTT  
TTCAGACACTAACTCCATAAGAACAGGCATCAGATCTATCTTATTTACCACCACATCCTGAG  
AATGGAGCACAGTGCCTGACACATAATAGATGCTCATAATAGATGCTCAGGGTTTATAGTCA  
GTGAATAAGTAAAGAAATGAGTGAGCAAATATCTCTTAAAAAGAACAGACTTTTAAAGTTAAC  
AAGCAGTGATGTGTTATTCAGTAGCAAATAAGATTGTTTCTTAATGTCATAATTCAATTNTCC  
TGCTTCTACTATGACTAGATGTTGGTTGGTGATAGTTTATATGANN

&gt;1063

&gt;1064

ACTTACTACAAGCAGCAAAAGGAAGCTCTAGAACAAGGAATTAAACACAGTGTTTGT  
TTCCAATCGCAGAAAGAGGCCATGAGCACCATATGTGTGTCAGGCTTATCATCTGAACCAAAG  
AAAGGCCAATCCTTCACCTTTCTTATGACTCTTATAGGCTGCAATATTTCACTTGGCCATAAA  
CAACTTAATATCTCACACCTAGTAGTATTCAGTGACACAGAAAAGGAAAGAGAAAGGATGAA  
GAACAGAGGAAAGAGAAATAATTTCCAAGATACAAATTTAATATTCTTCCAAGCATAAGA  
GCAATTA AAAAATANNNNNN

&gt;1065

&gt;1066

ACCCACATGATCCCAAAGAGGAGGGGCCCTGTATAACAAGAACCAACCAACATAA  
AGCAGTGACTACAGGCACCATGACAACAAAAGGAGTTTTAAAGTGCATCTTCAAATAGCACA  
CAATTTTCAAATTTAAATAGTTTGAATGAATCAAAGGGAAAAAAGCATTAAATAGATACAACT  
GAATTTCTCAAAGTATATTAACACAGCCTACAAATAAATCCTCAAATGTACCN

&gt;1067

ACCCTCCGTGACTTTTTCAGGGTCTCCTGGTTGAATGAATTTGCAGAAGGATTAAT  
GTGTGTTCTTATTTGTGCCTTTGTATTTCTCCCATTAAGTAGTGTGTTGGAGGCTTATTAGAAT  
AAGCTGAGAAGGGTAATAACATAAACACATACCGTAGGCAGCCCTGACATTAAACACATNAG  
GTAGGAGCCNN

&gt;1068

ACTATATTAGTGTAGCAATTTTCCAAAAGCCATTTCATCTTAGAGGGCTAAATGATTTT  
ACCTTATCAATTTCCCTGTGAAAAATATCTCTAAAGAGGTTTTCTGCTGGAAAAATATTGTTG  
CTGTCACATTGATATGCCAACAAAAGCTAAGCAGGGAAAGTCAGGCCAAGAAATATCTCCCTG  
CAAGAGAAGGCATCGCACATGTATCTCTCCATGCTATTTAAAAATTGCATTCTGCAACATAGAA  
AGGATAGGCCATGCTGCAGAAGCCAGGTCCAGGAAAACTGCTTTCTTTGGCCTTTACACACT  
CCTTTTGGAGAGATGCTGGTGAAAGCAGCAACTACCATCTGCCTTCTGTTGACTTAGTGTC  
GCAGGTGGAGGGAGGAAGGAGGGCATCGCAGACATCATTCTATTATCTCAACCTTGCTTTCT  
CGGATCCAAAGGCCAAGAAGTTGCTGCTCCATGCCCTCAGAGCTCTAATTTGGCACCTCTTC  
CTGAAATGAGAGCTTGAAAGGGCTTCTGCTCTGGGTGAAACCGGCTCGTGGCCCGGGCCAA  
TTCTGCTGGCTTCGCGTCTGTCTAGTGTGTCTAATCACTGTTATAAGTGTGGTTCTGCGGAA  
CATCTTGTAAAATATTTCTATTGCTCCAGCAACATCTCCTGTCTAGACAATCTAATTATGAA  
CACAGAGCAAATAGCTGAAGTGTATGCCCGCCCCAAGGGTGCATAACTCCAGGAATGGGG  
CTAGGAAGACAGGGGAGGGAGGTGTGTGTGATGTTTATTACTTTTTTGTGACCTGACCAGA  
AAATTGAGTGCTCCAAAAGAATCTGGCTAACTTTTAAATTAAGAAGAAATGATCTGGTGGAAGC

Table 4

TGGCATTGTTGTTTTCCAAAGTCAGTGGAGGATTAAGGTAAGTACTGATGTGTTTCCCTCTAA  
TCACGCTCTTTCTTGGCTTCAAAGGTGGTTGTGGTCTTGCGGTAAAATAAGNNNNNNNN  
NNNNNNNNNN

&gt;1069

ACCCTGCTTTGATTATTTCCGAATCCAGTGGGTAGAGAAGGTAAAGGCAAGGGCTC  
ACTGGATATTTTAAATTGTAGGGATGTCCTTTGCTCTGGGTCAATTTTAGGATCAAATATAAA  
AGCACCTATAGCTCAGAGTATCTTCTAACATAAACTTCTGAGATACCAGAAATTTTCCAAAA  
CATGGTATAAACAGTATGAAACACTGGGTAGATAAAAGCTTCTCTAAATCTTAAAGTGCTCA  
AATATCATGACCTGATTTTTAGTTTTAGAAATCAGATATTTTTCTATTCCATATCTTAACTTT  
CATGTTAAATTTAGTTCTGACAATGTAGGGTCTATTTTTTTCAGGTGATTGTTGGGAGCGT  
ATAGAAGCATATATAAATATGGAATATGTGTTTCTTTTTTCCCCTTCTGAAAGAAAGTCAAGCC  
TCTAATCAAATAGATTGATGCTTCAGAACTTAACAGAATATTATCTGCAATTTGGCATAAATG  
CATNTTCTTGGGGAAGTTCCATGGTCAAATTATTAGTCATTGCAAAACAGAAAAGTTTGA  
CAACTGGAAANN

&gt;1070

TAGTGAACCTACTCGGCCTAAAAAGAAGTATTAGCAAACCCAGAAGCTAATACTGAA  
AATTTAGCGAGTCAGCTTTACAAAGACACGATCTTATCACATTTCTGTTAACAACCTAAAAGG  
CCTTCAATTTTCCAAAATGGCCGGATCTTCATTGTGCTATTTTTAATAAGTTATTTTTGGAATA  
TCTTTCACAAGCAATACAAGTGGATTTTAAATCAATTGATACTTATAGAAAGAGTTTAAAGGAAA  
AATCTACCTCCTAAGTTTATTATTCACAAGTGTGTGTACATTATATTAATGAAATTTATCTAGT  
CCTTGCAAACCTTGTGCCTATTGATTTTCATTAGTGTAACTAAAGAGAGAACTTCACACTGA  
CATTTATAATTGTAAGAACTAAGAACCAACCATCAGCTTTTCTATGCCAATCCATGCCCTTCA  
GGAAGTTCTTGAGGCCTTGAGGTTGCTAGTTTAGTAAATTGCTTACTGGGACATTAAAGCAG  
CTACATTTTGGAAAGAGGGGAGAAATTAAGTTTTTGTGTTGAATTTATTATCACTAAGTAGTGT  
AAAGCTCTTTAGATTCCAAAAGGAGGAAAAATTGCAGGTCCATTAAATCAAATGCTGCAAC  
TAAGACNN

&gt;1071

ACCAAACTGAAAAAGATTGTGTATCCAAACATTATTTACATAAAATGTATTTTGTAT  
AAAGTAAATCCCAAACCATGGTGCTCAGAGGTTGTAAACAGTCCATGTAAGTTGAAGAAAAA  
GAGTTATCAATCAATACGTGACTATCAATCATTTATTTAATCATTATTTAGTTTTACANN

&gt;1072

ACTTTTTTTTTTTTTTTTTTTTGGAGACGGAGTTTCACTCTTGTTGCCAGGCTGGAGT  
GCAATGGCGCAATCTCAGCTCACCACAACCTCTGCCTCCCGGGTTCAAGAGATTCTCCCGC  
CTCAGCCTCTTGAGTAGCTGGGATTACAGGCATGTGCCACCATGCCTGGTTAATTTGTATT  
TTAGTAGAGACAGGGTTTCTCCATGTTGGTCCGGCTGGTCTCGAACTCCCGACTTCAGGTG  
ATCCTCCTGCCTTGGCCTCCAAAAGTGTAGGATTACAGGCGTGAGCCACCACGCCCTGCT  
TAAGTTTTAATAAGATCTCTTGGCACTTTTACGACTGGCACTTAGGTCTCACAAACACAG  
AAAAGCTTGTCTTAAAGTATATTGTCTTTGAAAAGTTAATCACTCTCTAAATGCTCCATTTAA  
AATGATTTACTTTATAAATGCATGCACTGAGAGAAAAGATATTTGAATGATATACANCCACAT  
GTAAATTAAGTGTGATTGTTTCTAAGTATTGGCACTATGGTCAANNNNNNNNNNNN

&gt;1073

&gt;1074

ACTGGGTCACTCTGCCCCAGCTCTCCAAAGGCATCAAGATCCGACTGCTAGGAGCC  
CCGGCTTCTTCCCTGACCTGCCCGTCTCCTACACCCTCTGGTCTGCTCCACACTGGTCTAA  
TAACTGGTGTTCCACATTCCTCTAACGTGCACAACACAGTCTGCCCCCGTGCTTTTACCT  
CCTGTCCATTCTCTTATAACGCTCTTCCCCAAATCGCTTGCCCATGGCTTGTTTGCTCATCN  
NNN

&gt;1075

NNACAGCCATGTGTACTTTATAGAAGTTAGAGGAAAAATCTAGTATTTTGTGTTTTCC  
TATATATTTATTGTTTCTATTGCTCTTTCTTCAATTCCTGAAGATGCGGCATTTCTTTACGCCT  
AATGTTGACCTTAGCTTTTCTAGCAGATCAGTCTGCTGGGGATACATTCTTTGTTTTCTTT  
GAGAATGTATTTATTTTACTTTTCAATTCCTAAAGGATATTTTAGGTGGATATATAATTCAGTA  
GATGCTTGCTTCTTGAGCACCTCAATGATGCCATTTAGCTGTCTTTTCACTTCTCTGATTTT  
TGGTGAAAAATCTTTGTAATGTAAACCTTATCCCTCTGTGTGGTGTGTAATTTTTTCTAGC  
TGCTTTCAAAAATTTTTCTTTGTTTTTGGTTTTTCAGCAGCTTAATTTGATGTGTATCTAGTCAT  
TTTTTTAAGTTTATCCTCTTTGAAGAGTACTGAGCTTCTAAATCGGTAAATTTTTGGCANN

Table 4

&gt;1076

ACTTCACTGATTTATGGCAAGTCAGCCAATCCATCAGTGCTCAAAGCTCCTTGTATT  
GTCAGGAATGTCTAACATTATTTGTCACCTATTGAGAAATAACTGCCAAGTAGTAGCATTG  
TTTTGTGTCTGATAGATTCTTCATGCAGAAAGAATAAGTAAATGAGATGGGACACAAATCTG  
AGTATAGCATTGTCATTACTTTTTGCTGCACAGATTACTTGCAAGAAATATTCTAGTCTGGGG  
CATAACAGAATCCACAAATCCAGATTAAAGAAATAGGTCTATATAAAGCTTATTTAATATTG  
GTATANNNNNN

&gt;1077

ACAGAGTAACCATGACTTACTAGGTGTTATGATGAAGGTGTATGTGTGTGTATATGT  
GTGCATGCATGTNATAAGTGTGTGCATTTGCACACATAAGAGTTTTAAGCTGCTCCTGTCATT  
TATTGATGGTCAAAGGTTTCTTTGGCTATTGCTGGACTCTTAAGATTGCTTGTATTTGTCTT  
TTTGTGTTGTTGAAAATTAAGGGTGTATATTAAGGTAGTTTTTACCCAGATCTTATATGTGT  
GATAGCTCACGTCTGTAATCAGAAACCTACTGTTAATGGCCACCCAATTGCCATTAGCTTCC  
TAGAGGGTGATTTAATAAACTATCTTCTTTAAACTCATTTAAATAGAGACATGTTTGCATA  
CAATGGATTAATGACGTTTTCACTAACCACAAAAGTCTGCTGCATTTCTTTGTAGGCC  
TAACATTCATTCATATGCATTGAATATTATTGGTGAACCTGCATTAAATTAN

&gt;1078

NNNNNNNNNNNNNNNNNGCATTGATATGAATAGTTTCACTAATTCATTGATGGTTA  
CTGTAAACATTCTTAAACTTTGTTTTATGGGATTATCAGAGTAACAAAATAATGTAGTCCCTT  
TATGGACTATAAGTAACCTTAATGCTTTTCTTCCCTATTTTCATATCCCATATTTGGTGCAATA  
ATTTAATTCATTACTTCAATATTTGTTTTGCATTGTATTTTACACCTACATTTACACTATTAAC  
TTATTTGTACATACTTAAATGGTTTCAGTGTGAAAAAGCAGCTTCTGACCTAGCATTACACT  
AGGCGGTGGCGTTCTCCTGCTGAACATTTAACAATTCTCAAATCTTAACATCAGATGAGGT  
CACTGTAATCCGGATAAAATGAGATACTGTAATCATGCCTGAGCACAGATAAAAAACAAAGTCA  
CTGTGCAAACCATAAACAGCCAACCTCTTCTGTGGCTAACATGGGTGACTGTTGCTTCTTTG  
CTTCTCTCCACCCACAACANNNNN

&gt;1079

&gt;1080

&gt;1081

ACACGATGTGGCTGACATTTGGCTGGAGTCTGCTAAGATGTCTTCTTATGCTGGATG  
GACGCAGACCTGTAACACCTCTGTTTTTCATCTTCTCCACCATATTTTCATCAGCCGCCTCA  
TTGTTTTCTTTCTGGATTTTATATGGCACGCTGATCTTGCCTATGTATCACCTCGAGCCTTT  
CTTTTCATACATCTTCTCAACCTACAGCTCATGATCTTGCAGGTCCTTCACCTGTAAGGGG  
TTATTACATCTTGAAGATGCTCAACAGATGTATATTCATGAAGAGCATCCAGGATGTGAGGAG  
TGATGACGAGGATTATGAAGAGGAAGAGGAAGAGGAAGAAGAAGAGGCTACCAAAGGCAAA  
GAGATGGATTGTTAAAGAACGGCCTCGGGGCTGAGAGGCACCTCATTCCCATATGGCCAG  
CATGGCCATTAGCTGGAAGCCTACAGGACTCCCATGGCACAGCATGCTGCAAGTACTGTTG  
GCAGCCTGGCTTCCAGGCCCCACACCGACCCACATTCTGCCCTTCCCTCTTCTCACCAC  
CGCCTTCCCTCCACCTAAGATGTGTTTACCAAAATGTTGTTAACTTGTGTTAAATGTTAAAT  
ATAAGCATGCCCATGGATTTTACTGCAGTTAGGACTCAGACTGGTCAAAGATTTCAAAGAN  
NNNNNNNNNN

&gt;1082

CCACGCGTCCGGGGGCGCGGGCCCGGGGATCCTCTCGCGCCCGCGGGGCTCCAAT  
CGCTGGTCTCAGCAATCCTAAACGGTCCCGGGCGAACCAGGGGCGCGCGCGCAAG  
GCCGCCGAGACCCTCAGGGGCGTGCGGGCCTTTGGTCCCCGCGGGACCTGTGGGGGGC  
CTGGGCGGCGCGCCCCGACCCAGCCAGCGGACGGGCGGGGGGGGAACCGGGAGGT  
CCCGGGGGGCGTCCACGGGGGTGTCCCCGGGGGTCTCCGGAAGGCGCGCGGAGGCT  
CCCGCGCTGCGCTTGAAAATCGCGCGCGGCCCGCGGCCAGCCTGGGTAGGGGCAAGGC  
GCAGCCAATGGGAAGGGTCGGAGGCATGGCACAGCCAATGGGAAGGGCGGGGACCAA  
AGCCAATGGGAAGGGCGGGAGCGCGCGCGGGAGATTTAAAGGCTGCTGGAGTGAG  
GGGTGCGCCGTGCACCCTGTCCAGCCGTCTGTCTGGCTGCTCGCTCTGCTTCGCTGC  
GCCTCCACTATGCTCTCCCTCCGTGTCCCGCTCGCGCCATCACGGACCCGACGAGCTGC  
AGCTCTCGCCGTGAAGGGGCTCAGCTTGGTTCGACAAGGAGAACACGCCCGCGGCTGA  
GCGGGACCCGCGTCTGGCCAGCAAGACCGCGAGGAGGATCTTCCAGGAGCCACGGAG  
CCGAAAACCTAAAGCAGCTGCCCCCGGCGTGGAGGATGAGCCGCTGCTGAGAGAAAACCC  
CGCCGCTTGTCTATCTTCCCATCGAGTACCATGATATCTGGCAGATGTATAAGAAGGCAGA

Table 4

GGCTTCCTTTTGGACCGCCGAGGAGGTGGACCTCTCCAAGGACATTGAGCACTGGGAATCC  
 CTGAAACCCCGAGGAGAGATATTTTATATCCCATGTTCTGGCTTTCTTTGCAGCAAGCGATGG  
 CATAGTAAATGAAACTTGGTGGAGCGATTTAGCCAAGAAGTTCAGATTACAGAAGCCCGCT  
 GTTTCTATGGCTTCCAAATTGCCATGGAAAACATACATTCTGAAATGTATAGTCTTCTTATTGA  
 CACTTACATAAAAGATCCCAAAGAAAGGGAATTTCTCTCAATGCCATTGAAACGATGCCTTG  
 TGTCAAGAAGAAGGCAGACTGGGCCTTGCCTGGATTGGGGACAAAGAGGCTACCTATGGT  
 GAACGTGTTGTAGCCTTTGCTGCAGTGGGAAGGCATTTCTTTTCCGGTCTTTTGCCTCGATA  
 TTCTGGCTCAAGAAACGAGGACTGATGCCTGGCCTCACATTTTCTAATGAACTTATTAGCAG  
 AGATGAGGGTTTACACTGTGATTTTGCCTGCCTGATGTTCAAACACCTGGTACACAAACCATC  
 GGAGGAGAGAGTAAGAGAAATAATTATCAATGCTGTTCCGATAGAACAGGAGTTCCTCACTG  
 AGGCCTTGCCTGTGAAGCTCATTGGGATGAATTGCACTCTAATGAAGCAATACATTGAGTTT  
 GTGGCAGACAGACTTATGCTGGAACCTGGGTTTTAGCAAGGTTTTTCAGAGTAGAGAACCCTT  
 TGACTTTATGGAGAATATTTCACTGGAAGGAAAGACTAAGTCTTTGAGAAGAGAGTAGGCG  
 AGTATCAGAGGATGGGAGTGATGTCAAGTCCAACAGAGAATTCTTTACCTTGGATGCTGAC  
 TTCTAAATGAACTGAAGATGTGCCCTTACTTGGCTGATTTTTTTTTTCCATCTCATAAGAAAA  
 TCAGCTGAAGTGTTACCAACTAGCCACACCATGAATTGTCCGTAATGTTCAATACAGCATCT  
 TTAAGACTGTGTAGCTACCTCACAACCGCTGTCTGTTTATAGTGCTGGTAGTATCACCTT  
 TTGCCAGAAGGCCTGGCTGGCTGTGACTTACCATAGCAGTGACAATGGCAGTCTTGGCTTTA  
 AAGTGAGGGGTGACCCTTTAGTGAGCTTAGCACAGCGGGATTAAACAGTCCTTTAACCAGCA  
 CAGCCAGTTAAAGATGCAGCCTCACTGCTTCAACGCAGATTTTAAATGTTTACTTAAATATAA  
 ACCTGGCACTTTACAAACAAATAAACATTGTTTGTACTCACAAGGCGATAATAGCTTGATTTA  
 TTTGGTTTCTACACCAAATACATTCTCCTGACCACTAATGGGAGCCAATTCACAATTCACTAA  
 GTGACTAAAGTAAGTTAACTTGTGTAGACTAAGCATGTAATTTTTAAGTTTTATTTAATGAA  
 TTAATAATTTGTTAACCAACTTTAAAGTCAGTCCTGTGTATACCTAGATATTAGTCAGTTGGT  
 GCCAGATAGAAGACAGGTTGTGTTTTATCCTGTGGCTTGTGTAGTGTCCTGGGATTCTCTG  
 CCCCCTCTGAGTAGAGTGTTGTGGGATAAAGGAATCTCTCAGGGCAAGGAGCTTCTTAAGTT  
 AAATGCAGTACAAATTTAGGGGTGATCTGGGCCTTCATATGTGTGAGAAGCCGTTTCATTTTAT  
 TTCTCACTGTATTTTCTCAACGTCTGGTTGATGAGAAAAAATCTTGAAGAGTTTTCATATGT  
 GGGAGCTAAGGTAGTATTGTAATAATTTCAAGTCATCCTTAAACAAAATGATCCACCTAAGATC  
 TTGCCCTGTAAAGTGGTGAAATCAACTAGAGGTGGTTCTTACAAGTTGTTCACTTAGTTTT  
 GTTTGGTGTAAGTAGGTTGTGTGAGTTAATTCATTTATATTTACTATGTCTGTTAAATCAGAAA  
 TTTTTATTATCTGTTCTTCTAGATTTTACCTGTAGTTCATACTTCAGTCACCCAGTGCTTTA  
 TTCTGGCATTGTCTAAATCTGAGCATTGTCTAGGGGGATCTTAACTTTAGTAGGAAACCATG  
 AGCTGTTAATACAGTTTCCATTCAAATATTAATTTCAGAATGAAACATAATTTTTTTTTTTTT  
 GAGATGGAGTCTCGCTCTGTTGCCAGGCTGGAGTGCAAGTGGCGCGATTTTGGCTCACTGT  
 AACCTCCATCTCCTGGGTTCAAGCAATCTCCTGTCTCAGCCTCCCTAGTAGCTGGGACTGC  
 AGGTATGTGCTACCAACCTGGCTAATTTTTGTATTTTGTAGAGATGGAGTTTCACCATAT  
 TGGTCAGGCTGGTCTTGAACCTCCTGACCTCAGGTGTTCCACCCACCTCGGCCCCCAAAGTG  
 CTGGGATTGCCGGGTGTTAAACAATTTCTTATAGGGGACCTTGAATTAAGTGCCTTTTTTGGG  
 CGAGAAGCTCGGACTTGCTN

&gt;1083

&gt;1084

NCCGAGGAATTTTTTTTTTTTTTTTTTGCATGACTAACAATTCATTCAATGTGTGTGTA  
 CTGCTATGTGTCCTCATGCATGAGCTATGTCAACAAGGACAATCTACTGATAAGAGAAAATG  
 AAAATGTACAAGTTGTAGGAGACTAAACATGGTTTTAACTTAGTACACATTTTTCTGAAATGTC  
 CCCCCTGATTAAGTTGTGAACAAATGAACATGCCACATGTCAACAACTGAACAAACATGGA  
 TTGTTAGTGACTTAGAGGTGGAGGGAGGGCTAGAGAGAGGCTAGCTGTGTTGGTCTGCCAA  
 TCTCCTGTGTCCCACTGGCTACAAAAATACAACCACTGGGTAGGTAGGGCTCATCTAGAA  
 CCAGAATTAGGAATAAGGATTGAGAAGAAAACCTCAGCAAGGGTGATGAATGAGTTTCAGCTC  
 ATTGCTGGAGTTAGCTGAAGAATGAATAGGACACAGTGGATGAAGGAACAAGCTATTCGGG  
 GGACCTTTTGAAGCCCTCGGACCTCACATCCCTAATAGCTAAAGAAGGATAAAATGGATGTA  
 AGCCAGTGCTAATCGTTCCCGCGN

&gt;1085

NNNACATTATCCACATTTAACACCTTTTTCAGTTGATGGCTGATTATCTGATTTTGCAA  
 ATGGTGCCTCACTGTGGGGATCCCCTCCTCTATTCTCAGATGTGGTGATGGTCCCCTCGTTT  
 TTCGACGTGCCTCCCGCTGTGGGCTGCAGTGTATGAATCTCGGAAGCACATTTTCAGAA

Page 287 of 355

Table 4

ATCCTCCCGCCTGAGTAGCTGGAACCACACGTGCGCACCACTAAACCCAGCTGTTTAATACA  
CCATTTTTTAACCCAAAACATTAAGAAAAATATAGGAACAGTAAGTAGATTACATTTTGTAAACA  
GACAAGCTTACAAGTTTTCTCAAATATGAAAGTCATACTAACTGGGAGACTGTTAACTTCTT  
GATGGGGTTAATCTCTAATATGAAGCCACAGTCATAGCTAACTACAAATTACATATACAATGC  
CAAAAATATTCAAAAATAACATTTTTTGCACCTTAATGATTACAAATGCTAACCAGCATAAAGA  
CACTGGAAAGTTTCAGAATCTCCTCATCACATACTTTCAAATATCTTCCCTTTACN

&gt;1087

&gt;1088

NNCACGAGGATTCTTCTCTTTTGGTCGGTTCTGAGTGTGGGGTGTCTACTGGG  
GATCTGCTAAGGCTAAGAGGCAAAGATAGGCAAGTCACTCCCCTGACCTCAAGAACTCCC  
AGTCTACAGGCGAAGATACACCACCCACCGGTAGAGTCGCTGGACCAGAATATTAGGTGTT  
CCAGTCAAAGTCACCCAGATTTGCCAAAAGACCTGGCACAAATGTCACCTCCACTATGAAGT  
CCCCTGACTTCCATATACAAGACAATCTGCTGGGAATTTCTTGGGTGACAGCTCTTGAT  
CCCTATTTTGAACAGTGGTAGTGTCTGCTGATTACTTTTCAGAAAGAAGTAATCCTTTTTATGA  
CAGAACATGTAATAATGAAGTGGTCAAAATGCAGAGGCTAACATTAGAACACTTGAATCAGAT  
GGTTGGAATCGAGTACATCCTTTTGCATGCTCAAGAGCCCATTTCTTTTCATCATTCCGAAGCA  
ACAGCGGCAGTCCCCTGCCCAAGTTATCCCAGCTAGCTGATTGCTATATCATTGCTGGAGTGA  
TCTATCAGGCACCAGACTTGGGATCAGTTATAAACTCTAGAGTGGTAAGTGTCTTCACATTCT  
TTAAGCACTAAAGAAAACTTTTAATTAGCTACCTTGCTTCCAGTAATCAAACCTAGAGCTCCTCT  
GCCTTGTGTAAGTTGCTATAAAGTATTGACTATTAGAATGTCTTGAACCTTGGTTACTGTGAG  
CCAAGTCGGTGCTCAAAGTATATTTTCATAGTCTCAATTATATAGTAATTTAGGTTCTGAAAAAT  
AGGTTCTGTCTTTGCATATGTAATATTTTGTGAGTATTTACTTTGGAAAGTTTGGTCGACCTAA  
TGATAAATTTAGAGTTTATTTTCTTTTACAAGCTTACTGCATTGCATGGTATTCAGTCAGCTT  
TTGATGAAGCTATGTCATACTGGTCGATATCAT

&gt;1089

NNGAGTCGACCCACGCGTCCGCTTGTCTATTTCAAGTTTGAGTAGGCTGAGGAAGA  
GGCGGAAGGAGGGTTGGTCTTGCTGTCTTACAGGTGGCAGAGGTGAAAGAGGTGAAAGTC  
CACAGGTACACGGACTCATGTAGTTCAAATCTGTGTTGTTCAAGGGCCAACTGTATTTCTCTT  
GTAGTTGGCTTGCCTTTTCATGTTTTAGTTTTGATTAATGCATGGATTTTACCATCATTTTTCT  
CTAACAAGAAAGGAATGTAAGTTTACTCTAGCATATGATAAACAGGCAGTCTGAGATTTTACA  
GAGCTTATTTCTGAGGAGTTTCAATTGTATTACATCATTTTCAATTTGCCTTTTTGTCTTTACATAG  
TAGATAGGGATATGTACCTCCCTTCGCCATCATGTAAGTGAATAAAGTGAAGGAAATGTTATTG  
TGCTACAAAAGTGAAGACAGATGAAGATTCTGTAATGAATACTTAGATCATCTATTTTTTGTG  
ACATTTTGCCTAGATGATGTGAAATTATAACTATTGATTCTGTTGAAAGAGANNNNNNNNNNNN  
NNNN

&gt;1090

&gt;1091

&gt;1092

&gt;1093

TATAGGGAGTCGACCCACGCGTCCGGACAGCACAGACAGATTGACCTATTGGGGTG  
TTTCGCGAGTGTGAGAGGGAAGCGCCGCGGCTGTATTTCTAGACCTGCCCTTCGCTGGT  
TCGTGGCGCCTTGTGACCCCGGGCCCTGCCGCTGCAAGTCGGAAATTGCGCTGTGCTC  
CTGTGCTACGGCCTGTGGCTGGACTGCCTGCTGCTGCCCAACTGGCTGGCAAGATGAAGCT  
CTCCCTGGTGGCCGCGATGCTGCTGCTGCTCAGCGCGGCGCGGGCCGAGGAGGAGGACA  
AGAAGGAGGACGTGGGCACGGTGGTCCGCATCGACCTGGGGACCACCTACTCCTGCGTCCG  
GCGTGTCAAGAACGGCCGCGTGGAGATCATCGCCAACGATCAGGGCAACCGCATCACGC  
CGTCCTATGTGCGCTTCACTCCTGAAGGGGAACGTCTGATTGGCGATGCCGCCAAGAACCA  
GCTCACCTCCAACCCCGAGAACACGGTCTTTGACGCCAAGCGGCTCATCGGCCGCACGTG  
GAATGACCCGTCTGTGAGCAGGACATCAAGTTCTTGCCGTTCAAGGTGGTTGAAAAGAAAA  
CTAAACCATACATTCAAGTTGATATTGGAGGTGGGCAAACAAAGACATTTGCTCCTGAAGAA  
ATTTCTGCCATGGTTCTCACTAAAATGAAAGAAACCgctGAGGCTTATTTGGGAAAGAAGGgtac  
ccatgcagttgttacctGTACCAGCCTATTTTAATGATGCCCCAACGCCAAGCAACCAAGACGCTGGA  
ACTATTGCTGGCCTAAATGTTATGAGGATCATCAACGAGCCTACGGCAGCTGCTATTGCTTA  
TGGCCTGGATAAGAGGGAGGGGGGAGAAGAACATCCTGGTGTGTTGACCTGGGTGGCGGAAC  
CTTCGATGTGTCTTCTCACCATTGACAATGGTGTCTTCGAAGTTGTGGCCACTAATGGAG  
ATACTCATCTGGGTGGAGAAGACTTTGACCAGCGTGTGATGGAACACTTCATCAAACCTGTCT

**>1094**

**>1095**

Page 289 of 355

### Table 4

**>1097**

**>1099**

**>1101**

Page 290 of 355



Table 4

TTTGAATCATTTGGAATACTTCATTGCTCCATCAGTAGATATACAAGAACAGGTTTATCGTGT  
CCAAAACTCCACCATATTCTAGAAATATTAGTCAGTTGCATGCCTTTCATTAAATCTCAACAT  
GAACTCCTCTTTTCTTTAACACAGATCTGCATAAAGTATTACAAACAAATCCTCTTGATGAGC  
AACACATTTTTCAGCTGCCAGTCAGACCAACTGCTGTAAAGAACTTATATCAAAGTGAGAAGC  
CACAGAAATGGAGAGTGGAAATATATAGTGGTCAAAAGAAGATTAAGACAGTTTGGCAACTG  
AGTGACAGCTCACCCATAGACCATCTGAATTTTACAAACCTGATTTTTCGGAATTAACACTA  
AACGGTAGCCTGGAAGAAAGGATATTCTTTACTAACATGGTTACCTGCAGCCAGGTGCATTT  
CAAGTGAAGTGTGCTGATGAAGTCCTCTATAAGCACAAATGGGAGGCGGGAGGCGGCCAGC  
CTGGTTCATCAGCATCCAGTCCTCTAGTGTGCCACCTAATGGACGCTTAATAATCTCTGGA  
TACTTGGAAATTCTGAGATGCATTTGTGGCCAGTCTCCAGCATGCACACAGGACTTGGATTA  
TGCAATTTGTGTGACGTCTTACTCTCCCTCCCAGCTGCTCCTTTGTCTATTATTCTAAGAC  
CTGTCTGAGGTATGCATACACTTCTGCAAGCTGGNNNNNNNN

&gt;1102

ACGCGGGATTCCCCCATGTTTTCTTCTAGAAGTTTTACAGTTTTACGATCTACATTTT  
TGGTCTATGACCCATTTTGGTTAAATTTTGTGTAAGGGATGTTATACATGTGGAGGTTCAATTT  
TTTTGCATGTAAATATCCAATTGTTTCAACACCAATTTGGTTGAAAAGACGGTATGTTCTCCTTTG  
AATGCTTCTGCGCCTCAATTAATAATCAGTTTACTCTATCTGCATAAGTCTACTTCTGGGCTGT  
CTACTCTCTTTTCAATGATCTGTATGTCTGTCCATTTTCCAATACCACTGTCTTTATTACTGTAG  
TTTCATAGTAAACCTTGAAATCATAATTCTATAGTAAGTCTAAAAAATCACACAGGTTGGAAA  
TGCACAATTAGTATGCTAAATCAGAGCAATCTTGTGTTTCAAATGGTTTATGGGAGAAATAT  
TAGCCAGTGTCTTACATGCTCATTGATGATAACTGTAGCTTATGTGAAATCATTGTTTCTCA  
GCCTTGGCAGCTATTTCAAAACCACTGCCTGTGCTCGGTAAGTGTGCTGTGCTGCTCATTA  
TTGTCTGGACCAAGGTGATCATAATTTGATATCTGAGAATGGTTTCTGCTGCATAGTAGATGG  
CAATGACAGGAAACATCCTGATCATTGCTCCTGAAGACTACTTTCTGTTACTGCTAAAATTTA  
ATAGTATTATCATCCTGCCTCCTAAATTTTACATCAAAATAATTGTTAAGCACAGGACTTAGA  
AAATAATTTGAAAGGCGATGTCATTTAAAAATAATTTTAAAGTGATTTTGTAGATTCATAGCAC  
TACACTTTATAAATACCTCATCTGAAGAAACCTTTGTGTTAGACGTTCCCAATAGCTGGGAAA  
CTGCCCATGAAATGATCTCAGTTACAAACN

&gt;1103

NNNATGTTGTTAAGATGTGTATAGTAAACAGAGTTGTGTCTAGTGCTTGTTTTCATGA  
ACTTTTGGCAGATCTTTCTTAGTGACTTTTTATCTTCCTCGGGTGTGTGCGGTGTGTTACCCCC  
ATTTGTGTATTTTTTTGTAGAATGGACATGCCCGAACGATGTTTGCATTGAAAAGTGACGG  
AACTGGTTGACGCTTCAGAGAGGAAAAGTGTGTCCCGCCCCCACCAGACAAAAGAGGCCGT  
TTTTCTTTTTTTTTTGGCATGCAGCATATATAAATGTGATCTAGAATTGAAATTGTAAACA  
GAATAATCCTCTTAAAGAAAATCAGCCTATGAACAGTCAGACTTGTCTTCCATGGAAAACAT  
AATCTAAACTTCTTTAAAACTGGCCATATTTTTTCACTGTGTAATTCGAATAATGAAGATGGC  
ATAACAAATTTTTTGTCTTACTAGGAATGCGCAAAAGGATGAGATGGATACACAGGTTTAAAA  
AAAAAAAAAAAAAGGCCACTGGGATATTTAGTATTTGTCCAGATGCAAAACAATTTTCAGAATAA  
CAAAATACACACCTTGCTTTAGGCCACGTATATGATACACTTCATAGATTCTCAAACAAAAGA  
TGAAAATTTTCACTCCACATTAACATTTTAAAGCATAACTTCTAATATTTTGTAAAAATAAGTC  
AAACTAAAGGCATAAATCAGAATTACCTGTTAACATAGTGGGGAAGTAGGGGAAGCCCTCCA  
GGGGCCCCGTGCCCAAGTAAAAGACAAGGAGTTAAATTTTACAATGAAATCCACGTATACT  
CAGGCTCTTTTACACTAATAATCAAAGTGGAGACCAACCAGTTCTTAAAGCATAAAAGAGTGAT  
TTTAAGAAAATATCACATTTTGAAGTTACGGTATATTATCATCATTTTTTCCCTGTAATTTTCACTT  
TAACAGTGATAGTCTTAGCAGCAAAAATTTGCTGGGAATGTTAGGAAAAAAGGAAGCCACAC  
ATACCTACTAATTTAAAAATATATAAACTATTTTTTACAGAAGGGCAGGTTTAAAAGAAAATCC  
AATCATGATCTTTTATGCCATTTTTTGTCACTTTCCATACACACGCAGACGCTAACAAAGTA  
CTGTGTCATATACACTGAAGTGTCTGAAGATGCCTGTGAGCTGCTGATTCCAGCTGGTACC  
AGGGAAGCATGTGTGGCTAAGTTGCAACAACTTAAATTTGTTCCCTTAGTTCTTCATCTTT  
TTAAAAGCTGAATAAACTTAAATGTCAATCGGGTGGGGCCGGTATTAACAGCATCAACCGCTT  
GCTTACTATGAATCATCCGCAACAGAAACCCACGTGCATTCTCCATTCTTAAAAAGTCAGTGT  
AAAATAACGGCCACTTCTCCTCCTAGGTGCCTACTATCGCTATGTCTGACAGCATCTGTAAC  
AGGACAAGCTCAGCTCTCTCTACACGGATTCTCCAAAGCCACACACTAGGCCAAATTTCTCC  
CAGTGGAATCAAACACTGGAAGTAGAGCAAGAACCTCATGCCAACATTGGCCCAATCACAC  
CTCAGTGACTTAGGAGTTCATCATATTTGATCATAAATTTGCTCCCGCGCCAAACCTTACAC  
CTAAAGACTGTAGTTTTAAAAGCCACTGTACCGTCCACAATTATTCTGACCACTCTTTTCTAA

Table 4

ATGGAGAATGTGCTACGCACTGAAGATCAGAACACACACGCGGGAGCCCTTGGGCACTGAC  
CCTGAGCCTGTACACAAGATCAGCTGGTACTAGTCTCAAATGATTCATGAGGACTCAAAGTG  
GAAATTTAAACATTCAATTCTGTGTATCATTGATGCCCAGAGTCTTCAAAGAATGCTCGTG  
TTAGTTACCTGACACCTCTGGAGAAGTGACAGGGATATTCGTGTGAATAACCATGGCTCCCT  
TCCAGACAGACATATGGAATCTTACTCTTAAAAAAGTAAAGATATTTTCAAGATATCAAATGTATT  
ATAATATACTGCGGTCTAAAGTTAAAGGCAAAATTTACACACGATTTTCTCTTCCATGACTTTA  
TTACATGTTTCTAGTGAATTCACACGGCTCGTGTGTCAAAGCTCCAGGCACGTCACATTGG  
TCACAGTTTTTTCATGTGCGTGGGGTTGATCATGGTACAAATGCCTATGCGCATCTTTTTCTCG  
GATGGTCTCATTTGACTTTTCTTTTCTGTAAGGGTTCACTCTCCATGGTGTAGATGATAAGCTAC  
CACATTTGTGCTTTTAAACCCATTCTGGCAATCCCCCTTTATCTTTCATTTTGTCTTTAGGGG  
GATAAAGAAGTAACACTACCTCATGAATAGAACTATGAAGCCAAAAAACTCCTTCACAAGCT  
GTTTCAATTTCTTTTTAGAATGAAAATGCAGTCTTGAATTCGTGAAGCAGCCCCACAGGGTTA  
CAGGCCAATGATTCGAACGCTGAGGTGAACACTTAGTACTCGCATTTGAGCTTCAAAGTAA  
AATAAAGCAGAGGACAAACGCTGTACAGCGTGGCAGCCCGGTTTCAATTTGGTAACAGAAC  
AAGTCTCACACGTCGGCTGAGCCACCGGAGAGAAGCACACAGGCCAGCTTCTCTTGAAC  
ACAGCCAGGCACCTGTTCAAAGCCTCTCTGGTGGTGGCGGTGGACCCCAAAACCCACGG  
GTTGGAAGAGCCTTTGGGAAAGCAAATGATACCCCTGATTGCAGTCCTTGAAGAAATCACTT  
AGGTTAGTTTAAATAACGAACATTAATAAAATCTTCCAAAAATTGCATTCAAATGTATTTTACA  
CTTTAGGCAGTTCTTAAGAAGGGAGAGTGCAGTTTCTTACACTAACATTAAGGTTTANNNNN  
>1104

GCACATACCAAGCATTGTCTGTAAACAGAATAATGTCATGGACACACATGCAGATAAA  
TATACCTACTAAAATTTCTTTGAATGTATGAAATGCTATTGTGGTTAATGAAATGCACATTCCT  
TAAACAAGCGTTTTTTCAGTTCTATAGGTTTTTTTTTATTCATGTGTATCAGTCCTCCATCTGT  
AGAAGCTAAAAATACAATACTCTTATACTGGTACTTGCAATGGTTTGACATTAAGAGAGA  
GACTATACATTACAGAGGTTGGGAGCTTCTGTCTAGCCTGTTGTCCAAAACCTGCTTATATAA  
TTTAGCAACTAATTTTCACTTTTGACAATATTTTAACTTAGAGAATACGTTTATAAAGATTTT  
CTTACAGTGTTATCTATCCTTCCAATGACTTATTATAAATTTTGAATGTATTTCTATAGGGTG  
GAAAAATCCTTTAGTCAGAATTGAACAGTTTTTCATGAAGAACATGTTACACCATGTAGAAA  
CATGGGT  
>1105

CCACGCGTCCGCTGACTGTCTCTCTGTCTTGTAAATATTGCCACTGCGCATATGTT  
ACTAGGAATGATACCCACAAACACACATACGCACGCACGATCTCACTTCGATCTATACACT  
GGAGGATTAACAAACAAACAAAAAAACATTTCTTCGCTCCCCCTCCCTCTCCACTCTGA  
GAAGCAGAGGAGCCGCACGGCGAGGGGCGCAGACCGTCTGGAAATGCGAAGCCTAAAG  
CGTTTCCTCGCTTGCAATTCAGCTCCTCTGTGTTTGCCGCCTGGATTGGGCTAATGGATACTA  
CAGACAACAGAGAAAACTTGTGAAGAGATTGGCTGGTCTATACAGGAGCACTGAATCAA  
AAAATTGGGGAAGAAATATCCAACATGTAATAGCCCCAAACAACTCCTATCAATATTGATG  
AAGATCTTACACAAGTAAATGTGAATCTTAAGAACTTAAATTTAGGGTTGGGATAAAACAT  
CATTGGAAAACACATTCATTACATAACACTGGGAAAACAGTGGAAATTAATCTCACTAATGACT  
ACCGTGTCAGCGGAGGAGTTTCAAGAAATGGTGTAAAGCAAGCAAGATAACTTTTCACTGG  
GGAAAATGCAATATGTCATCTGATGGATCAGAGCATAGTTTGAAGGACAAAAATTTCCACTT  
GAGATGCAAATCTACTGCTTTGATGCGGACCGATTTTCAAGTTTTGAGGAAGCAGTCAAAGG  
AAAAGGGAAGTTAAGAGCTTTATCCATTTTGTGAGGTTGGGACAGAAGAAAATTTGGATT  
CAAAGCGATTATTGATGGAGTCGAAAGTGTTAGTCGTTTTGGGAAGCAGGCTGCTTTAGATC  
CATTCACTGTTGAACCTTCTGCCAACTCAACTGACAAGTATTACATTTACAATGGCTCATT  
GACATCTCCTCCCTGCACAGACACAGTTGACTGGATTGTTTTAAAGATACAGTTAGCATCTC  
TGAAAGCCAGTTGGCTGTTTTTGTGAAGTTCTTACAATGCAACAATCTGGTTATGTCATGCT  
GATGGACTACTTACAAAACAATTTTCGAGAGCAACAGTACAAGTTCTCTAGACAGGTGTTTTCT  
CTCATACACTGGAAAGGAAGAGATTTCATGAAGCAGTTTGTAGTTTCAAGAACAGAAAATGTTT  
AGGCTGACCCAGAGAAATATACCAGCCTTCTTGTACATGGGAAAGACCTCGAGTCGTTTAT  
GATACCATGATTGAGAAGTTTGCAGTTTTGTACCAGCAGTTGGATGGAGAGGACCAACCAA  
GCATGAATTTTTCAGAGATGGCTATCAAGACTTGGGTGCTATTCTCAATAATTTGCTACCCAA  
TATGAGTTATGTTCTTCAGATAGTAGCCATATGCACATAATGGCTTATATGGAAATACAGCGA  
CCAATGATTGTCGACATGCCTACTGATAATCCTGAACTTGATCTTTTCCCTGAATTAATTGG  
AACTGAAGAAATAATCAAGGAGGAGGAAGAGGGGAAAAGACATTGAAGAAGGCGCTATTGTG  
AATCCTGGTAGAGACAGTGCTACAAACCAATCAGGAAAAAGGAACCCAGATTTCTACCAC

Table 4

AACACACTACAATCGCATAGGGACGAAATACAATGAAGCCAAGACTAACCGATCCCCAACAA  
GAGGAAGTGAATTCTCTGGAAAGGGTGATGTTCCCAATACATCTTTAAATTCCACTTCCCAAC  
CAGTCACTAAATTAGCCACAGAAAAAGATATTTCTTGACTTCTCAGACTGTGACTGAAGTGC  
CACCTCACACTGTGGAAGGTACTTCAGCCTCTTTAAATGATGGCTCTAAAAGTGTCTTAGAT  
CTCCACATATGAACCTGTGCGGGGACTGCAGAATCCTTAAATACAGTTTCTATAACAGAATATG  
AGGAGGAGAGTTTATTGACCAGTTTCAAGCTTGATACTGGAGCTGAAGATTCTTCAGGCTCC  
AGTCCCGCAACTTCTGCTATCCCATTCATCTCTGAGAACATATCCCAAGGGTATATATTTTCC  
TCCGAAAACCCAGAGACAATAACATATGATGTCCTTATACCAGAATCTGCTAGAAATGCTTCC  
GAAGATTCAACTTCATCAGGTTTCAGAAGAATCACTAAAGGATCCTTCTATGGAGGGAAATGT  
GTGGTTTCTAGCTCTACAGACATAACAGCACAGCCCGATGTTGGATCAGGCAGAGAGAGC  
TTTCTCCAGACTAATTACACTGAGATACGTGTTGATGAATCTGAGAAGACAACCAAGTCCTTT  
TCTGCAGGCCAGTGATGTCACAGGGTCCCTCAGTTACAGATCTGGAAATGCCACATTATTC  
TACCTTTGCCTACTTCCCAACTGAGGTAACACCTCATGCTTTTACCCCATCCTCCAGACAACA  
GGATTTGGTCTCCACGGTCAACGTGGTATACTCGCAGACAACCCAACCGGTATACAATGGT  
GAGACACCTCTTCAACCTTCTACAGTAGTGAAGTCTTTCCTCTAGTCACCCCTTTGTTGCTT  
GACAATCAGATCCTCAACACTACCCCTGCTGCTCAAGTAGTGATTGCGCCTTGATGCTTAC  
GCCTGTATTTCCAGTGTCGATGTGTCATTGTAATCCATCCTGTCTTCTATGATGGTGCACC  
TTTGCTTCCATTTTCTCTGCTTCTTCTCAGTAGTGAATTGTTTCCCATCTGCATACAGTTTCT  
CAAATCCTTCCACAAGTTACTTCAGCTACCGAGAGTGATAAGGTGCCCTTGATGCTTCTCT  
GCCAGTGGCTGGGGGTGATTTGCTATTAGAGCCAGCCTTGCTCAGTATTCTGATGTGCTGT  
CCACTACTCATGCTGCTTCAGAGACGCTGGAATTTGGTAGTGAATCTGGTGTCTTTATAAAA  
CGCTTATGTTTTCTCAAGTTGAACCAACCCAGCAGTAGTGCATGATGCATGCACGTTCTTCA  
GGCCTGAACCTTCTTATGCCTTGTCTGATAATGAGGGCTCCCAACACATCTTCACTGTTTCT  
TACAGTTCTGCAATACCTGTGCATGATTCTGTGGGTGTAACCTATCAGGGTTCCTTATTTAGC  
GGCCCTAGCCATATACCAATACCTAAGTCTTCGTTAATAACCCCAACTGCATCATTACTGCAG  
CCTACTCATGCCCTCTCTGGTGATGGGGAATGGTCTGGAGCCTCTTCTGATAGTGAATTTCT  
TTTACCTGACACAGATGGGCTGACAGCCCTTAACATTTCTTACCTGTTTCTGTAGCTGAATT  
TACATATACAACATCTGTGTTTGGTGATGATAATAAGGCGCTTTCTAAAAGTGAATAATATAT  
GGAAATGAGACTGAAGTGCAAATTCCTTCTTTCAATGAGATGGTTTACCCTTCTGAAAGCACA  
GTCATGCCCAACATGTATGATAATGTAATAAGTTGAATGCGTCTTTACAAGAAACCTCTGTT  
TCCATTTCTAGCACCAAGGGCATGTTTCCAGGGTCCCTTGCTCATACCACCACTAAGGTTTTT  
GATCATGAGATTAGTCAAGTTCCAGAAAAATAACCTTTTCAGTTCAACCTACACACTGTCTCT  
CAAGCATCTGGTGACACTTCGCTTAAACCTGTGCTTAGTGCAAACTCAGAGCCAGCATCCTC  
TGACCCTGCTTCTAGTGAAATGTTATCTCCTTCAACTCAGCTCTTATTTTATGAGACCTCAGC  
TTCTTTTAGTACTGAAGTATTGCTACAACCTTCTTTTCAGGCTTCTGATGTTGACACCTTGCTT  
AAAAGTGTCTTCCAGCTGTGCCAGTGATCCAATATTGGTTGAAACCCCAAGTTGATAAA  
ATTAGTTCTACAATGTTGCATCTCATTGTATCAGATTCTGCTTCAAGTGAAACATGCTGCAT  
CTACATCTGTACCAGTTTTTGTGTTGCTGCTGCTACTTCTCATATGCACTCTGCTTCACTTCAAG  
GTTTGACCATTTCTATGCAAGTGAGAAATATGAACCAAGTTTGTAAAAAGTGAAAGTTCCC  
ACCAAGTGGTACCTTCTTTGTACAGTAATGATGAGTTGTTCCAAACGGCCAATTTGGAGATTA  
ACCAGGCCATCCCCAAAAGGAAGGCATGATTTTGTACACCTGTTTTATCAATTGATGAA  
CCATTAATAACACTAATAAATAAGCTTATACATTCCGATGAAATTTAACCTCCACCAAAAGTT  
CTGTTACTGGTAAGGTATTTGCTGGTATTCCAACAGTTGCTTCTGATACATTTGTATCTACTG  
ATCATTCTGTTCTATAGGAAATGGGCATGTTGCCATTACAGCTGTTTCTCCCCACAGAGATG  
GTTCTGTAACCTCAACAAAGTTGCTGTTTCTTCAAGGCAACTTCTGAGCTGAGTCATAGTG  
CCAAATCTGATGCCGTTTGTAGTGGTGGTGGTGAAGATGGTGACACTGATGATGATGGTGA  
TGATGATGATGACAGAGATAGTGATGGCTTATCCATTTCATAAGTGATGTCATGCTCATCCTA  
TAGAGAATCACAGGAAAAGGTAATGAATGATTGACACCCACGAAAACAGTCTTATGGATC  
AGAATAATCCAATCTCATACTCACTATCTGAGAATTCTGAAGAAGATAATAGAGTCACAAGTG  
TATCCTCAGACAGTCAAAGTGGTATGGACAGAAGTCCCTGGTAAATCACCATCAGCAAAATGGG  
CTATCCCAAAAGCACAATGATGGAAAAGGAAAAATGACATTGAGCTGGTAGTGCTGTGCT  
TCTCTCAGCCCTGAATCTAAAGCATGGGCAAGTTCTGACAAGTGATGAAGAAGTGATGATCAG  
GGCAAGGTACCTCAGATAGCCTTAATGAGAATGAGACTTCCACAGATTTTCACTTTTGCAGAC  
ACTAATGAAAAAGATGCTGATGGGATCCTGGCAGCAGGTGACTCAGAAATAACTCCTGGATT  
CCCACAGTCCCCAACATCATCTGTTACTAGCGAGAACTCAGAAGTGTTCCACGTTTTCAGAGG  
CAGAGGCCAGTAATAGTAGCCATGAGTCTCGTATTGGTCTAGCTGAGGGGTGGAATCCGA

Table 4

GAAGAAGGCAGTTATACCCCTTGTGATCGTGTGAGCCCTGACTTTTATCTGTCTAGTGGTTC  
TTGTGGGTATTCTCATCTACTGGAGGAAATGCTTCCAGACTGCACACTTTTACTTAGAGGACA  
GTACATCCCCTAGAGTTATATCCACACCTCCAACACCTATCTTCCAATTTAGATGATGTCG  
GAGCAATTCCAATAAAGCACTTTCCAAAGCATGTTGCAGATTTACATGCAAGTAGTGGGTTTA  
CTGAAGAATTTGAGACACTGAAAGAGTTTTACCAGGAAGTGCAGAGCTGTACTGTTGACTTA  
GGTATTACAGCAGACAGCTCCAACCACCCAGACAACAAGCACAAGAATCGATACATAAATAT  
CGTTGCCTATGATCATAGCAGGGTTAAGCTAGCACAGCTTGCTGAAAAGGATGGCAAAGTGA  
CTGATTATATCAATGCCAATTATGTTGATGGCTACAACAGACCAAAAGCTTATATTGCTGCCC  
AAGGCCCACTGAAATCCACAGCTGAAGATTTCTGGAGAAATGATATGGGAACATAATGTGGAA  
GTTATTGTCATGATAACAAACCTCGTGGAGAAAGGAAGGAGAAAATGTGATCAGTACTGGCC  
TGCCGATGGGAGTGAGGAGTACGGGAACCTTCTGGTCACTCAGAAGAGTGTGCAAGTGCTT  
GCCTATTATATGTGAGGAATTTTACTCTAAGAAACACAAAAATAAAAAAGGGCTCCAGAAA  
GGAAGACCCAGTGGACGTGTGGTCACACAGTATCACTACACGCAGTGGCCTGACATGGGAG  
TACCAGAGTACTCCCTGCCAGTGCTGACCTTTGTGAGAAAGGCAGCCTATGCCAAGCGCCA  
TGCAGTGGGGCCTGTTGTCGTCCTGCACTGCAGTGCTGGAGTTGGAAGAACAGGCACATATAT  
GTGCTAGACAGTATGTTGCAGCAGATTCAACACGAAGGAAGTGTCAACATATTTGGCTTCTT  
AAAACACATCCGTTTACAAAGAAATTTATTTGGTACAAACTGAGGAGCAATATGTCTTCATTCA  
TGATACACTGGTTGAGGCCATACTTAGTAAAGAACTGAGGTGCTGGACAGTCATATTCATG  
CCTATGTTAATGCACTCCTCATTCTGACCAGCAGGCCAAAACAAAGCTAGAGAAACAATTC  
CAGCTCCTGAGCCAGTCAAATATACAGCAGAGTGACTATTCTGCAGCCCTAAAGCAATGCAA  
CAGGAAAAGAATCGAAGTCTTCTATCATCCCTGTGGAAAGATCAAGGGTTGGCATTTCAT  
CCCTGAGTGGAGAAGGCACAGACTACATCAATGCCTCCTATATCATGGGCTATTACCAGAGC  
AATGAATTCATCATTACCCAGCACCCCTCTCCTTCATACCATCAAGGATTTCTGGAGGATGATA  
TGGGACCATAATGCCCAACTGGTGGTTATGATTCTGATGGCCAAAACATGGCAGAAGATGA  
ATTTGTTTACTGGCCAAATAAAGATGAGCCTATAAATTGTGAGAGCTTTAAGGTCACTCTTAT  
GGCTGAAGAACACAAATGTCTATCTAATGAGGAAAACTTATAATTCAGGACTTTATCTTAGA  
AGCTACACAGGATGATTATGTACTTGAAGTGAGGCACCTTTCAGTGTCTAAATGGCCAAATC  
CAGATAGCCCCATTAGTAAACTTTTGAAGTTATAAGTGTTATAAAGAAGAAGCTGCCAATA  
GGGATGGGCCTATGATTGTTGATGATGAGCATGGAGGAGTGACGGCAGGAAGCTTTCTGTGC  
TCTGACAACCCTTATGCACCAACTAGAAAAAGAAAATTCGCTGGATGTTTACCAGGTAGCCA  
AGATGATCAATCTGATGAGGCCAGGAGTCTTGTGCTGACATTGAGCAGTATCAGTTTCTCTAC  
AAAGTGATCCTCAGCCTTGTGAGCACAAGGCAGGAAGAGAATCCATCCACCTCTCTGGACA  
GTAATGGTGCAGCATTGCCTGATGGAAATATAGCTGAGAGCTTAGAGTCTTTAGTTTAACAC  
AGAAAGGGGTGGGGGAAGTCACTCTGAGCATTGTTTTCTCTTCTTAAATAGGCAGGAA  
AATCAGTCTAGTTCTGTTATCTGTTGATTTCCCATCACCTGACAGTAAGTTTCATGACATAGG  
ATTCTGCCGCCAAATTTATATCATTAAATGTGTGCCTTTTTGCAAGACTTGTAATTTACTTA  
TTATGTTTGAAGTAAATGATTGAATTTTACAGTATTTCTAAGAATGGAATTGTGGTATTTTTT  
CTGTATTGATTTTAAACAGAAAATTTCAATTTATAGAGGTTAGGAATTCAAACTACAGAAAATG  
TTTGTTTTTAGTGTCAAATTTTTAGCTGTATTTGTAGCAATTATCAGGTTTGCTAGAAATATAA  
CTTTTAATACAGTAGCCTGTAAATAAAACACTCTTCCATATGATATTCAACATTTTACAAGTGC  
AGTATTCACCTAAAGTAGAAATAATCTGTTACTTATTGTAAATACTGCCCTAGTGTCTCCATG  
GACCAAAATTTATATTTATAATTGTAGATTTTTATATTTTACTACTGAGTCAAGTTTTCTAGTTCT  
GTGTAATTGTTTATGTTAATGACGTAGTTCATTAGCTGGTCTTACTCTACCAAGTTTTCTGACAT  
TGTATTGTGTTACCTAAGTCATTAAGTGTGTTTGTGAGCATGTAATTTTAACTTTTGTGGAAAATA  
GAAATACCTTCATTTTGAAGAAGTTTTATGAGAATAACACCTTACCAAAACATTGTTCAAATG  
GTTTTATCCAAGGAATTGCAAAAATAAATAAATATTGCCATTAATAAAAAAATTCAGTGGCC  
GTCGTTTTACAACGTCGTGACTGGGCCCTGGCGTTACCCAACCTTAATCGCCTTGACGACAT  
CCCCCTTTCGCCAGCTGGCGTAATAGCGAAGAGGCCCGCACCGATCGCCCTTCCCAACAGT  
TGCGCAGCCTGATGGCGNN

&gt;1106

NNNNNGTACCACTTCATCAAAATCATGGATCTTGGCTGGGTGCGGTGCCTCATGCC  
TGTAATCCTAGCACTTTGGGAGGCTGAGGCAGGCAATCACTTGAGGTGAGGAGTTCGAGAC  
CAGCCTGGCCATCATGGCGAAACCTCATCTCTACTAAAAATACAAAAGTTAACCAGGTGTGT  
GGTGCACGTTTGTAAATCCCAGTTACTCAGGAGGCTGAGGCACAAGAATTGAGTATCACTTTA  
ACTCAGGAGGCAGAGGTTGAGTGAGCCGAGATTGCACCACTGCACTCCAGCTTGGGTGAT  
AAAATAAAATAAAATAGTCGTGAATCTTGTTCAAAATGCAGATTCTCAGATTCAATAATGAGA

Table 4

GCTCAGACTGGGAACAGGGGCCAGGAATCTGTGTGGTACAAACCTGCATGGTGTATGCA  
CACAGAGATTTGAGAACCATTGTTCTGAATGCTGCTTCCATTTGACAAAGTGCCGTGATAATT  
TTTGAAGAGAGAAGCAAAACAATGGTGTCTCTTTTATGTTGAGCTTATAATGAAATCTGTTTGT  
GACTTATTAGGACTTTGAATTATTTCTTTATTAACCCCTCTGAGTTTTGTATGTATTATTAA  
AGAAAAATGCAATCAGGATTTTAAACATGTAAATACAAATTTGTATAACTTTTGATGACTTCA  
GTGAAATTTTCAGGTAGTCTGAGTAATAGATTGTTTTGCCACTTAGAATAGCATTGGCACTTA  
GTTTTGGAGGCAAAAGTGGGGATTATTGTCAGGTTGTCCTGTTCTATAAAATTTAAGGTCAGGT  
TGGCCCTTTTGGGAAAGTTGCCTTTAAGATTGTGGCATGGTTCACGGGTTTGCTTAAATTTG  
TGGTATAAAATTCTAAAAAAGGGATTGGGGTCATAGGGGAAAGGGGAAGAGAGGTAATG  
N

&gt;1107

NGTCTGTGAGATGTTACCACTAGTATTTGGAAGAAAGTAATAAATGTGGCCGGGCGT  
GGTGACACATGCCTGTAATCTAGCCACTTGGGAGGCCAAGGCAGGAGAATCGCTTGAACCT  
GGGAGGCGGAGGTTGCAGTGAGCCAAGATTGCAGCATTGCACTCCAGCCTGGGCAACAGA  
GTGAACTCTGTTGAGGNN  
NNNNNNNNNGGTCATTAGTTATTAATTTACACAGTTAACACTGAAAAATGAATGATATTTAATC  
ATTGTCACCTACTGAGAAGCAAGAACAATGAGTAGCCCAAAGGAGTCTACTACCATACCTA  
TTAAGTGTAGGGAAGGGTTTAAGTATTTTTACATGACTTTTTCTTCTGTCATTGAAAAACACCA  
CCCATCTGAAATGGACAGAAGAAAATTTCCAGGTGTTCTACTCTCATCAGAACAGCTTGG  
TGCCAGTGACCTCCACACTGTTAGCTGGCTCCCATACTGCTTGAAGGGCACCAGTCAAGAG  
CTGTCAAAGGGAGTCTCCTCAGAAATCAGCATTGTGGGAGATCCCACTTCCAAAAAGGTAG  
TGCAGCAGTGCTGTTCCGAGCAGCAGTGAATGTGGGGGCTGAAGACGACGCTTACAGGG  
CCTTGCTTAGGCCCTGGGGATGGGAGTAAACAGAGTCATGATATGAGGATGTAGTGAAATG  
AGTTTCTGCANN

&gt;1108

NACGAAATTTAATACGACTCACTATAGGGAATTTGGCCCTCGAGGCCAAGAATTCGG  
CACGAGACAAAAATTAGCTGGGCATAGTGCGGGTACCTATAATCCAGCTACTCGGGAGG  
CTGAGGCACGAGAATCACTTGAAGCCGGGAGGTGGGGGTTGCAGTGAGCCGAGATCACAC  
CACTGCACTCCAGCCTGGGCAACAAGAGCAAACTCCGTCTCAAAAAAGATGAAAATAAAAT  
AAAATATATATTTACAGGCCTACAACTTTTGCCTCAGACTGTTCCCTTTTCTAAGGGTATTCA  
AGTTTTACCTTTTAAGCTTCATATCCTCAGTGCTTGTAGAATGATGAGCTTAGAGGTACCAG  
GTCATTGCAGTTGTTTGCTTAAAGACTTATTGAAATGGTTACTGGCGTAAATACTTGGCCAA  
TCAACTTTATTGCCCTGATCTTTCCATTTTTGTTTTCCACCTTAACCTATAGCAGCTCCCTCA  
AATGAGGAATGCTGTAAGTAAGACTCATCAACAGATTTTAACCATTTTATTATCCTGTGTGT  
CCTTACATTGCTTCTGTGAGATGTTTTTTCTTATCTGAGATGAACTTTCAGGAGCCTATTTGA  
ACTCCAGACTGGTGTCTGGGGCAAGAGCTATTAGCCAACTGATTCTATGCAGGTGAAGG  
ATGCACTAAAGTTCTCACTTTAGTGAGAATTTCTAGCTATTCCAATACAGAGTTCTTTCTTA  
TAGGGCTATTGATATTGACACCAAATGGAGTGGCTTCTCAGCCTCTTAATGTCTTAAGTAAGT  
GCTTAATTTGGAATAGAGAAACCAGTATATTTAAAAAAGAAAAATATTCTTTGTAGCAACTGT  
AAATTCTCCATTATAACAGTGAACAGAGCTCCAGGTAATAACGCATAGGCATGTCAGGTTG  
CATCTGTATATTTGACTACATTAGTATTAGTGACATCAGGTGGATATAAAGAAACCCCTTGG  
AAAGAGAACTGCCTTAGCCATGATTTGTTAGTAGACCTATTTATGATTCAATTGCAATTTTCA  
GATAGGATGTGAACATGGAATTTCAATTGAAATAGTTTAATTTTTATATAAAAGGTTTTGTAT  
ATAATGTGTGTCAGTGACTATTTCAAATCATTTTCATCAAGACACCTTTTTCTAAATAGG  
CATTGCATACACATATGCACACGTATGTGCACGTGCCACACATTTTTGTATAATGTTGGGTT  
TGATTATAAAGTGTTGTCAAATGTTTTATTTATCTGCATATAGCAGTGGTTGGCTTTTTTGA  
TTGAAATTTTTGCGCATTGATGCATTGAAATAAGGAAATTTATCTCTGAGCACTAACTT  
ATTTTTGCATATTTCTGTAATATTGCAGTCCCAGATCCAGAACATGGGAAGTTAGGGAAAT  
GTGTGATTTTGTGTTTTGAATTACTGTCAGAATTACATACACAATTACAACAACTTTTTTAA  
AGACATTTCAATTGACTGCAAAAAATCTGAATATTTATATTTCTTGTTTTTTCTTTATATGTTTT  
GCATTTAATATGTTGAGCCACTGGAAATTTGTAAACAGATTAATTTGTTATAGGAGTTTAAATG  
TGTTGTCTATTGTCTCCATTGTCTTTGTCCAGAGCCTATTATTATGGAACAATAAAATTTATTG  
TGTGATTTGATTAGAAAACTAAAAAAGAAAAAAGAAAAAAGAAAAAAGAAAAAAGG  
AAAAAGGAAAAACACAAGAAAAAAGAAAAAAGAAAAAAGAAAAAAGAAAAAAGAAAAAAG  
AGGAGCAAAGAACCAGACGACACTAAATACTGAGTGGGAGAGGGAGGGTAAGCAGCAATGA  
ACTAGGATAGGTATAGGGAGGCGGAAGGACCAACAACGCGACGCCAGTCAAGACATGG

Table 4

TCGACAAGGAAAAGAGGGAGGACGACAAGCCGTGACGGATTGTGATAGATACAAGAGGAAG  
ACGGAGCGAGAGGAGACACAGCACCGCGCGCGAGCCACGCAAGGGCACGCGGCGACA  
CAGATAGAGAGGAGAACCCACATAGTGGGGGGGGGAGAAGCGGAAAAACACACAAAGAGA  
GCGGGCACAGTGATGCCAACAAAGCAAACGGTGGGAGGGAACAAGCANN  
>1109

NNNACACAAGATTTACACCACTAAAACACAACATAAACTAGGCACAGTGGGACACAC  
TTGTAATCCCCCTACTCAAGAAGCTGAGGCAGTAGAATTACCTGAGTTTTAGTCCAACGGT  
GAGTATACACACGTACATACATATACATACACACACACTCTCTCTATATATATAGGTGTT  
CATCCATGGGGTCCACAAAGATAACTAGAGTACATTTTGGGCCTTTAATCCCATCTAAACAAT  
TTGCTGTTAACGAACTCAAAAACAGAAATACCTATATTTTCTCGCTAAATCCAATTGTTACCT  
ATGATGAGTAAAGACACTAGATCTGCAGGTCTAGTACAATCTATACATAAAAGGCCTTCAGA  
TTTGAGGCACAAAAAANAAGGGCAAAAAAAGAAAAAAGAATAAAAAACCTTCTACACATT  
TCCTTCTTTTATCTGCAATATGAGAAGGAATCCTTTCTAACTCTAATAACATATTAACAAGAAT  
TAAGAACACGATTGTGCGGGAACTCAGATGTTGGCAAAGCTTAAAAATAAAAAACAAGGGC  
TGGGTGCAGTGGCTCAGGCCTATAATCCCAACACTTTGTGAGGCCGAGGCAGGAGGATTGC  
TTAAGCCCAGGAGTTTGGGATCAN

>1110

>1111

>1112

>1113

>1114

>1115

>1116

>1117

>1118

>1119

>1120

>1121

NNNNNNNNNNNNNNNGAGACAGAGTCTCACCTGTGCGCCAGGCTGTAGTGCAGTG  
GTGCCATCTCAGCTCACTGCAAGCTCCGCCCACTGGGTTACGCCATTCTCCTGCCTCAGC  
CTCTCGAGTAGCTGGGAATACAGGCACCCACCACTATGCCCGGCCAATTTTTCTATATTTA  
GTAGAGACGGGGTTTCACCGTGGTAGCCAGGATGGTCTTGATCTCCTGACCTCGTGATCCA  
CCCACCTTGGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCACCCTGCCGGGCTGAAAA  
ATAACCCTTTAGATATCTACAGCTTTAACTGTGTGCAGTCATGAAAAGCAGACATTGGGAAG  
TCATTGGCATTAAATAAATTGCAGAAAAATTATACAGTAAATACATTACAATCATTAAATAG  
GCTCTAATGAGAAGAATTTAATAAATAATCATTAAAAAGACAGCAGAATTTTATCTGTTCTCA  
TATGTTGCTGCTCTTCTATCAAATACTATAATAAACTATATGACTATAATATAGATTTCCAGG  
AGCTAAAAAAGCCTTATATTTTCAAATAAAGAACAATATAAATTTTGCAAATATGACGAGC  
ATTACTGCAGTATAAAGTAAATATCTGGAATTAATAATATACCATCATTTAGATATAGACTAAAA  
AAAAAGAATATAAATGTTAATGATTCTTTCTGCCTGCAGTGAGCTTAAAAATTACAACCAAAAA  
TTTTAATAAATATGTAGCACCTACAAGACATTTTATTAATAGCTTACATAATGTGGAAATTTGA  
GCAATTTATTTTGAATTTTGAATCTAAAAATCACCAGCTTGACATTCAATTTGAGAAAGTGAA  
ACATAAAGCGGAATTCGACGACCACAACCACCACTCGCGCTGGACCCCTGCCTCAGTGA  
CGAGAACTATGACTTTAGCTCCGCCGAGTCGGGCTCCTCGCTGCGCTACTACAGCGAGGGT  
GAGAGCGGCGGCGGCGGCGGCGAGCTCCTTGTGCTGCATCCGCCGCAGCAGCCTCCGCT  
GGTCCCGACGAACCTCGGGGGGCGGCGGCGCGCAGGAGGGTCCCCCGGGGAAAGGAAAC  
GTACCCGGCTTGGCGGCCCGCGGCCGCGCTATGAGGTAGTGACGGAGCTGGGC  
CCGGAGGAGGTACGCTGGTTCTACAAGGAGGACAAGAAGACCTGGAAGCCCTTCATCGGCT  
ACGACTCGCTCCGCATCGAGCTCGCCTTCCGGACCCTGCTGCAGACCACGGGTGCCCGGC  
CCCAGGGCGGGGACCGGGACGGCGACCATGTGTGCTCCCCACGGGCCAGCCTCCAGT  
TCCGGAGAAGATGACGATGAGGACCGCGCCTGCGGCTTCTGCCAGAGTACGACGGGGCAC  
GAGCCGGAGATGGTGGAGCTTGTGAACATCAGGCTGTGTGCGTGCGGGGCGGCCTCTAC  
GAGGTGGATGTGACCCAAGGAGAGTGCTACCGGTGTACTGGAACCAGGCTGATAAATAC  
CAGTAATGCGTGGACAGTGGTTTATTGACGGCACTTGGCAGCCTCTAGAAGAGGAAGAAAG  
TAATTTAATTGAGCAAGAACATCTCAATTGTTTTAGGGGCCAGCAGATGCAGGAAAATTTCTGA  
TATTGAAGTGTCAAAATCCATAGATGGAAGAGATGCTGTTCATAGTTTCAAGTTGAGTCGAAA

Table 4

CCATGTGGACTGGCACAGTGTGGATGAAGTATATCTTTATAGTGATGCAACAACATCTAAAAT  
TGCAAGAACAGTTACCCAAAACTGGGATTTTCTAAAGCATCAAGTAGTGGTACCAGACTTC  
ATAGAGGTTATGTAGAAGAAGCCACATTAGAAGACAAGCCATCACAGACTACCCATATTGTA  
TTTGTGTGTCATGGCATTGGGCAGAAAAATGGACCAAGGAAGAATTATCAAAAAATACAGCTAT  
GATGAGAGAAGCTGCAAGAAAAATAGAAGAAAGGCATTTTTCCAACCATGCAACACATGTTG  
AATTTCTGCCTGTTGAGTGGCGGTCAAACTTACTCTTGATGGAGACACTGTTGATTCCATTA  
CTCCTGACAAAGTACGAGGTTTAAGGGATATGCTGAACAGCAGTGCAATGGACATAATGTAT  
TATACTAGTCCACTTTATAGAGATGAACTAGTTAAAGGCCTTCAGCAAGAGCTGAATCGATTG  
TATTCCCTTTTCTGTTCTCGGAATCCAGACTTTGAAGAAAAAGGGGTAAAGTCTCAATAGTA  
TCACATTCTTGGGATGTGTAATTACTTATGACATAATGACTGGCTGGAATCCAGTTCCGGCTG  
TATGAACAGTTGCTGCAAAAGGAAGAAGAGTTGCCTGATGAACGATGGATGAGCTATGAAGA  
ACGACATCTTCTGATGAACCTCTATATAACAAACGACGGCTGAAGGAAATAGAAGAACGGC  
TTCACGGATTGAAAGCATCATCTATGACACAAACACCTGCCTTAAATTTAAGGTTGAGAATT  
TCTTCTGTATGGGATCCCCATTAGCAGTTTTCTTGGCGTTGCGTGCCATCCGCCAGGAAAT  
ACTGGAAGTCAAGACCATATTTTGCCTAGAGAGATTTGTAACCGGTTACTAAATATTTTCAT  
CCTACAGATCCAGTGGCTTATAGATTAGAACCATTAACTGAAACACTACAGCAACATTTCA  
CCTGTCCAGATCCACTGGTACAATACTTCAATCCCTTACCTTATGAACATATGAAGCCAAGC  
TTTCTCAACCCAGCTAAAGAACCCTACCTCAGTTTCAGAGAATGAAGGCATTTCAACCATACCA  
AGCCCTGTGACCTCACCAGTTTTGTCCCGCCGACACTATGGAGAATCTATAACAAATATAGG  
CAAAGCAAGCATATTAGGGGCTGCTAGCATTGGAAAGGGACTTGGAGGAATGTTGTTCTCAA  
GATTTGGACGTTTCATCTACAACACAGTCACTGAAACATCAAAAGACTCAATGGAAGATGAG  
AAGAAGCCAGTTGCCTCACCTTCTGCTACCACCGTAGGGACACAGACCCTTCCACATAGCA  
GTTCTGGCTTCCCTCGATTCTGCATTGGAGTTGGATCACAGGATTGATTTTGAACCTCAGAGAA  
GGCCTTGTGGAGAGCCGCTATTGGTCAGCTGTCACGTCGCATACTGCCTATTGGTCATCCTT  
GGATGTTGCCCTTTTTCTTTAACTTCATGTATAAACATGAGCACGATGATGATGCAAAACC  
CAATTTAGATCCAATCTGAACCTTGAAGGACATGAATGGCCTAAAACCTGATTTTTTTTTTTC  
CGTTAAATGTGTGTGTAAGATACGGAGATTTACGGGTTAAAGTATATTTTCAAGTTTCTTTA  
GGGCAACATATATTTGAATTTAAAGCACTTTATTTAAAAAAAAAAAAAAAAAATCCGACTAAAA  
AAAAAAAAAAAAAGGAAGGCCGCTAGACTAGTCTAGAGAAAAAACCTCCCNACCTCCCCCAA  
AACCTGAAACATAGNAATGAATAAAGANN

&gt;1122

NNNNNCGGTTTTCCGGGCAGGTACGCGGGGGCGGCCCGTTCCAGAGGGCGGCGC  
TCGACCAGTTGCCTGACGAGAGCTCTTCAGCAAAAGCCCTTGTGAGTTTAAAAGAAGGAAGC  
TTATCTAACACGTGGAATGAAAAGTACAGTTCTTTACAGAAAACACCTGTTTGGAAAGGCAG  
GAATACAAGCTCTGCTGTGGAATGCCTTTTCAGAAATTCAAAACGAAGTCGACTTTTTCTGA  
TGAAGATGATAGGCAAATAAATAAAGGTACCTAAAAGAAACCAGAGGGTTGCAATGGTTC  
CACAGAAATTTACAGCAACAATGTCAACACCAGATAAGAAAGCTTCACAGAAGATTGGTTTTTC  
GATTACGTAATCTGCTCAAGCTTCCCTAAAGCACATAAATGGTGTATATACGAGTGGTCTATT  
CAAATATAGATAAACCACTTTTTGAAGGTGATAATGACTTCTGTGTATGTCTAAAGGAATCTTT  
TCCTAATTTGAAAACAAGAAAGTTAACAAAGAGTAGAATGGGGAAAAATTCGGCGGGCTTATGG  
GAAAACCACGGAGATGTTCTTCTGCATTTTTTGAGGAAGAGAGATCAGCATTAAAACAGAAA  
CGGCAGAAAATAAGGCTCTTACAACAAAGGAAAGTTGCAGATGTTTCACAATTCAAAGATCT  
CCCAGATGAAATTCCTTTGCCTCTGGTTATTGGAACGAAAGTTACAGCACGATTACGTGGTG  
TTCATGATGGTTTGTCACTGGACAAATAGATGCTGTGGATACTCTTAATGCTACTTATAGAG  
TAACTTTTGATAGGACAGGGCTTGGAAACCCATACCATCCCTGACTATGAAGTTCTCAGTAAT  
GAACCTCATGAGACAATGCCAATTGCTGCCTTGGGACAAAAACAGCGGCCCTTCTCGATTTTT  
TATGACCCCAACCGGTTACATTATACTCCTCCTCCTCCAGTCACCAATTATAGATAATGATCC  
TTTATTAGGACAGTCGCCGTGGAGAAGTAAATTTCTGGCTCTGACACTGAAACATTAGGTG  
GTTTTCCAGTAGAATTTCTTATCCAAGTGACCAGATTATCAAAAATTCTCATGATTCACCAAG  
GAACATATCAAGAACATCAGGGACATGAACACAGAAGCAGAAACACTGGCAATCATATTGCA  
TGCCAGTCAGCATTGGATTACGCGGAGATTTGCGACAATCGGTCTCGGGGCACTTGAACAG  
GTGAACACAGGGCCTAAACACAGTTTGGGTAACGGTCACCGGATTGCTATGAGATTGTCCC  
AACACGGGGTCCAGCTGAGAGATCAGCGAAGGTATTAACCCGTGTGTAGCGGCCGAAACAC  
CCGGCACAGTGTCCGCGCGACATCCTCAGCGGAGAACCCGTCTTTACAGGGGCACTGGGC  
GACAGCAATTCAGATCGCGACTGGTGACCAATTGTGCCAGCGGACGCCCTGAGCAACCAA

Table 4

CTCAGAGTAACGAAACATGATCACGAGCACTAACAAACGATAAGTGAAGCGAACGGCCCCAC  
GGCTGCAACGACTGCTTCCTCATCATACATCTTTCATTATGAN

>1123

ggaagaggacataagcagctctatgaccaatagcacagctgccagtagacccccggtcaccctgaggctggtggtccctg  
ctagtcagtggtgctctctcattgaaaaaggTGGATGCAAGATCAAGGAAATACGAGAGAGTACAGGGGCT  
CAGGTCCAGGTGGCAGGGGATATGCTACCCAACCTCAACTGAGCGGGCCATCACTATTGCTG  
GCATTCCACAATCCATCATTGAGTGTGTCAAACAGATCTGCGTGGTCATGTTGGAGTCCCCC  
CCGAAGGGCGTGACCATCCCGTACCGGCCCAAGCCGTCCAGCTCTCCGGTCATCTTTGCAG  
GTGGTCAGGACAGGTACAGCACAGGCAGCGACAGTGctgAGCTTTCCCCACACCACCCCGTC  
CATGTGCCTCAACCCTGACCTGGAGGGACCACCTCTAGAGTTGACCAAGCTGCACCAGTTG  
GCAATGCAACAGTCTCATTTTCCCATGACGCATGGCAACACCGGATTTCAGTGGCATTGAATC  
CAGCTCTCCAGAGGTGAAAGGCTATTGGGCAGGTTTGGATGCATCTGCTCAGACTACTTCTC  
ATGAACCTACCATTCCAAACGATTTGATTGGCTGCATAATCGGGCGTCAAGGCGCCAAAATC  
AATGAGATCCGTCAGATGTCTGGGGCGCAGATCAAAATTGCGAACCCAGTGGAAGGATCTA  
CTGATAGGCAGGTTACCATCACTGGATCTGCTGCCAGCATTAGCCTGGCTCAATATCTAATC  
AATGTCAGGCTTTCCTCGGAGACGGGTGGCATGGGGAGCAGCTAGAACAATGCAGATTTCAT  
CCATAATCCCTTTCTGCTGTTCCACCACCCCATGATCCATCTGTGTAGTTTCTGAACAGTCA  
GCGATTCCAGGTTTTAATAGTTTGTAAATTTTCAGTTTCTACACACTTTATCATCCACTCGTG  
ATTTTTAATTAAAGCGTTTTAATTCCTTTCTCTGTTTCAGCTGTTGATGCTGAGATCCATATTTA  
GTTTTATAAGCTTCTCCCTGGTTTTTTTTTTTTTTTTGGTTTTTTTTTTGGCTCATGAATTTT  
CTGTTTGTCTATGAAATGTAAGAGTGGAATATTAATACATTTTCAGTTTAGTTCTGTAATGTCAG  
GAATTTTTCAAAAAAATTAAGATGGACTGGAGCTTTTTCTTTGTGAATAGAACTGGATGC  
CACAGTGATTCATGTGGGTTTTATTCTCTTGTCTTGTGTTATTTTTGTACCTTTTATCCCTC  
AAAGGACCCTTCTTGGGTTTTGAATGGAAGCCTTTATTCCGGTTAAGATGTTTTCTTCTATTTT  
ACCACTTCCATCTTTTTTTGTGGCCCTCGATCCTATTTTCCCTGACTCCATGCTTGGTTGGC  
CCTTATAAACTTGTGCCCAAAAGATTGAGGATTAGACTTTCCGAGGACTTACCTGTCCTAG  
GGGAGTAGGCAAGCACTTCCACTAGGGAGGGGGTGGGGGAAAGGAATGACACATGACATA  
CATGGCATAACATTAAAGCAGTTGATCATATGTCTGACTGGGTTCCAGTTTCTTGGGAATGTT  
GGTCCCCTTGTTCAGGCTTGCATATTTTAACTAAAAATTTTCAGTCTATTGTTTTAGTAACTT  
CATTTATAGTCTCCATAACAAGTTAGAAGGATGTATCTGCTACCATTTATTCTCTATAATTTA  
GAAAGTTGGGGCTTGACATTATACTCATTTAGTGAGAGTAGATGCAAAAAAGTGGAGGGGCA  
GGAGAACTTCTCCAGACACCTCAGATAAAGTCCGGAGCCCAAGGCTTTATCTTAACCATGTA  
TGGT

>1124

NNNNNNNNNNNNNNCGAAATACTTCTAGAATTAATTAACGCGGGGAAGATTTCCAAAA  
CTAGATATCCATATGCAAAAGAATAATACAGGACTCTTATGGTACTAGATACACAATAATCAA  
CTCAAAATGATTAAAGATTATACACAAAACCTTGCAACCATAAAGCTCCTATAAAGACAACCTC  
AGGTGTGCGTATATTTAGGGCAACTTGGATGTATGCTTAGGGTTCGCAAAAAGTAAACAAAA  
ATACAAGGGGAAAAAAATTATTGACAATGAACTGCTTTGGTAGTGATTTGTGATTTTGTTTTTTC  
TTGATTAGTAACCAACAGCACAGCCACCAAGAAATTATGCACATGTGGGACCACGTCAAGCT  
GAAGCGTTTGTGCCCAACAAAGGAAACAATAAAGAAAAATAAAGGCACACTAAAAATTACAA  
GTTTGGGATAAAGGGATTATTTTTGAAAAGGTACAAGCGAGTCATACTACCAGCTGGCAAAAA  
AATAACTAAACAACAGAACCATTGCCAGACAAAACCTGGGCATATAACCGGATTAGATATTTT  
TCCAAAGAAGACAGGAACTGACCGAATGTCTACTAAAACGTGGTTAACATTACTACGTCAT  
GAGAAAAATGCAGATCAAAACCACACTCAGATCTTATCTCACTCCCATAGAATGACATTACCA  
AAAGATCCAAAATATTTAAAAAGACAATCCTGGTAGTGAATTGTCTTCGGGTGCGNN

>1125

ACAGAAAAAGACACATTTAGATAAACTGAAGCAGATTAAAGTGACTTTATAAGACAAC  
ATCTTTGTTTTTATGTTTAATTTCAAGTATGGTTAAGCACTAATTTAATTCAGTGCTTTCTGCTT  
ATTCTGTTTCTAGTAACTCTTACAGAAACAAGTGATGTCAGTAGCCAACATACATCCATGTCA  
GCCTATATATGACTTACTAGGAGGGCTTAGTTTTTTAAAGAGATGAAAAATAAAGAGAAGGT  
CTAGTATTTTCTCCTCCCATTTCCAACAGATCATTTTATGTGCCCTTTGGGTGAGCATTTC  
CATGTTGTAGACCATTGATCATAGTAGTCAGAGCATGGAGCTCTGGAGTTCAGAAAAATTATT  
TTATTATTGTTGTTATGACAAAAATAATTACCATGTAAAGGAAAAAGAAAGAACTCAGCGAAA  
AAANNNNNNN



Table 4

&gt;1126

cgctccgcccacGCGGtccgggCGGAACCCCGTCAGGAAAGCGCACAAAAGTCTCTTAAGT  
CATTGACAGAGCTACCGCTTCGGTTAGCCAGCCACGAAGTTCTCGCGAGAGTCGTCTCCTCG  
ATACCAAAGCTGGTGTGAGACGAGACAATCCTGCCCGCGcgCGGGATAATCAaagtTTGGCCG  
GACCTTTGAGCATAACCGAGAGAGTGAGGAGCCAGACGACAAGCACACACTATGGCGCTG  
AAACGGATTAATAAGTTGCAGCTTTTCAACCCGAAGCTATTTATCCGAGGGACACCGGGAAGT  
GATGTAAAAGGCATTCTGGAAGCTCCCTTTTCTTTTGGCTGGAGAGTGGGGGTGGATAAG  
GGGTGCGATGGCAGTAAGGGAAGCTAATGTACCTATTTTGCCTCATTCTATTTAATAACAC  
CCTTGTTTCGTTACTTGAAATGTGGTTTGATAGTATATTATCGATTTAAGTTGAAAAAAACTA  
GGATTTTTCGGAGCTCTGGGAGTGAGCGGAACCTCCACCTCCGCTGGTTTAGTCTCATTTTTC  
TTGCTCTAACTTCTATCCCGCATTTTAAGATGGCGGCTGCTTTAACTGGTTCAGGCTCTTTCC  
GGCATCTCCTTTCGTAATAATGTGAATTAATGATTTGTTAAATGTTAACTTTTATATCGCGT  
TGTGCACTGCTCTAAGATCCTCTGCTCAAACCTTACCTAAATCAAACCTTTAACTGTATTTT  
CCTTTTTTGTGACTTGTATTTGTGTGATGTGTTTGGTTGTTGCACAATCGAAGAGGGTGGAGT  
GTTTACAGCTAACTTGAAAAAATGTCATGGAATAAATTCAGCCTTACTAGAAAAATTTGTGGA  
GTGTCGGAACCTTAGTGATTTGGCCCGTGACCCCTCCAGCACAAATGTTCTGCAGGTCCAGTTG  
GGGATGATATGTTTCATTGGCAAGCCACAATTATGGGACcTAATGACAGCCCATATcaagCG  
GTGTATTTCTTTTTGACAATTCATTTTCTACAGACTACCCCTTCAAACCACTAAGGTTGCATT  
TACAACAAGAATTTATCATCCAATATTAACAGTAATGGCAGCATTGTCTCGATATTCTAAGA  
TCACAGTGGTGCCTGCTTTAAACAATTTCTAAAGTTCTTTTATCCATTTGTTCACTGCTATGTG  
ATCCAAACCCAGATGACCCCTAGTGCCAGAGATTGCACGGATCTATAAACAGACAGAGAT  
AAGTACAACAAGAATTTATCATCCAATATTAACAGTAATGGCAGCATTGTCTCGATATTCTA  
AGATCACAGTGGTGCCTGCTTTAAACAATTTCTAAAGTTCTTTTATCCATTTGTTCACTGCTAT  
GTGATCCAAACCCAGATGACCCCTAGTGCCAGAGATTGCACGGATCTATAAACAGACAGA  
GATAAGTACAACAGAATATCTCGGGAATGGACTCAGAAGTATGCCATGTGATGCTACCTTAA  
AGTCAGAATAACCTGCATTATAGCTGGAATAAAGTTTAAATTAAGTGTCTCTTTTGTATTTCT  
TATCCGGCTGCTCCCTATCAGACCTCATCTTTTAAATTTATTTTTGTTTACCTCCCTCCA  
TTCATTCACATGCTCATCTGAGAAGACTTAAGTTCTTCCAGCTTTGGACAATAACTGCTTTTA  
GAAACTGTAAAGTAGTTACAAGAGAACAGTTGCCCAAGACTCAGAATTTTTAAAAA  
TGGAGCATGTGTATTATGTGGCCAATGTCTTCACTCTAACTTGGTTATGAGACTAAAACCAT  
CCTCACTGCTCTAACATGCTGAAGAAATCATCTGAGGGGGAGGGAGATGGATGCTCAGTTG  
TCACATCAAAGGATACAGCATTATTCTAGCAGCATCCATTCTTGTTAAGCCTTCCACTGTTA  
GAGATTTGAGGTTACATGATATGCTTTATGCTCATAACTGATGTGGCTGGAGAATTGGTATTG  
AATTTATAGCATCAGCAGAACAGAAAATGTGATGTATTTTATGCATGTCAATAAAGGAATGAC  
CTGTTCTTGTTCTACAGAGAATGGAATTTGGAAGTCAAACACCCTTTGTATTCCAAAATAGGG  
TCTCAAACATTTTGAATTTTCAATTAATTTGTTAGGAGGCTTGGAGCTATTAGTTAATCTATC  
TTCCAATACACTGTTTAATATAGCACTGAATAAATGATGCAAGTTGTCAATGGATGAGTGATC  
AACTAATAGCTCTGCTAGTAATTGATTTATTTTCTTCAATAAAGTTGCATAAACCAATGAGTT  
AGCTGCCTGGATTAATCAGTATGGGAACAATCTTTTGTAAATGCAAAGCTGTTTTTGTATA  
TACTGTTGGGATTTGCTTCATTGTTTGACATCAAATGATGATGTAAAGTTGAAAGAGTGAAT  
ATTTTGCCATGTTTCAGTTAAAGTGACAGTCTGTTACAGGTTGACACATTGCTTGACCTGATT  
TATGCAGAATTAATAAGCTATTTGGATAGTGTAGCTTTAATGTGCTGCACATGATACTGGCAG  
CCCTAGAGTTCATAGATGGACTTTTGGGACCCAGCAGTTTTGAAATGTGTTTATGGAGTTTAA  
GAAATTTATTTTCCAGGTGCAGCCCCTGTCTAACTGAAATTTCTCTTACCTTGTACACTTGA  
CAGCTGAAAAAACAACATGGGAGTAATAATGGGTCAAATTTGCAAAATAAAGTACTGTTT  
TGGTGTGGGAGTTGTCATGAGGCTGTGTTGAAGTGACTTATCTATGTGGGATATTGAGTATC  
CATTGAAATGGATTTGTTCAAGCATTTACATTAATGAGCATTTAAATGCAACAGATATCATTTT  
AGGTGACTTAACATGAATGAATAAAGTCAATGCTATTGGATTGTTTTTGTGACAAGTGC  
TATCTGTGCCACTGATTTAACTTCTGTAGTAACAAGGGCATTACCATTTCTTACCTTTCTAAT  
TCTGATCCCATAGTTTTACATTTTCTGTTTATTTTGAATTTGTTCACTGCTTTATTTCTTAAA  
GTTCTAGCACATCTGTGACTCCTCCACTTCCACATTTTTGCACTGCTTACACTTACGTGCAAT  
CTTATTCCTTGTCTGCACACACATGTGGAAGCTAGAAAATAAATGTTAAACCTTACTTTTTATA  
AACATTTAATATGTAGTTTGGACATGATTTATTGACTTAAGGTTCTTCTTAACTGGAAGTG  
AAATGCATGCCTTCTGAAGATGTTCTGGCTTTGTTAATTCTGTAATCATTTTCAATGGGAAAA  
AACCAGCTACGCAGTTTTTCCAATGAGTGAATTTTTTCAATTTGTGTTTTGCTTAAACGGCTC  
CTTCAGGGTAGATGTCATACTGCATAACTTTTTTGGATTCAAATTATGAATGAGAAATTAGTTA

Table 4

ACATTCTGCTCCACAAGGTAAGAAAACTGCTCTTTGGCTCTATTTTCAAATTAATTCTGAG  
ATGCATATAGTCTCAAATAACAGCTTTAGTAGGCATATCACTTCTTGAAAGCCAAACATGAG  
TGTAAGACACTTTTATGAAACACGGTGGATCCCTAACTGGCTTTCAAATTGACCTTTATAGCC  
TTAGACAACCCCTTAGGTATTTACGGAGATGACTTCTTTGATTGTCATAACAATTAGTGGATGT  
GTCCAGTTCTCTGTATCTTTGACTTGATGCTTTATACATCATTTTCAATTTGTTGCTTCTAAGGGA  
ATAAGCCATAGAGGCTTCTCCAGGTTTAAAAGAACAGTAAAGTACCTGGAAAACCAACATTTT  
TGAATGTATGGACACTGGACATGAGATATGTACAATGAAATCTTAAAAGAACTAAGAATTTG  
CCCTCTTTGCCCCACTCCACCCAGTAATTTGACATTACTAGTGCCATGTATAGGACCCAACT  
GAGTATTAGAATCAGTTTTGACTATGTCTTTGTATTTCCCTAAATCTTTAATGCATAAACCGAA  
TTAGGGTCCAGTTGGCCTGTTAATGGTAAATTTACATTTTAAATGACTCAGTTTGTTCCTG  
GGCGAGTTTGCAATGTGATAATCAGATTTTTTAAACTGATTAATTTGCTTTCTTGTTGGGT  
GTACTCACATTTTAAAGTATGAACCACAGTTAACTAGTGGTCTCAGGGGTAGTGAAACACTCA  
CTTTTTTTTTGTTGTTTTTTTTGTTGTTGTTGAAATGGCTTAGTTGAAGTATACTTAAGG  
TACTGATCATGCTGTGTAGTAATTTGGGCGGGGAGGGGGGTAACCTCAGCCATGTTTTGTGT  
TGGCATAACAAAACCTGTTAATGATTGTTGATTACACTTTTAAAGTGAATTTGTCTTTATGAGGA  
ACCCAGTGCAAGTCACTAAATATTGTCTAATAGTGACATCTGCATAAGACTTGTAATAGCTGA  
AGTTAATTGAGCTTAAAGGAATTGTTACCATTAAGTCTGTG

&gt;1127

GCGTCCGGAATGGTAAGTATATACCTCTTATAAAATCTTCGAATGGCTTCTCTTTCT  
TGGACTGAAAAATGTCCATTTTCTACCACCTGCAACATTACTCTTCTGCTTACTCTAGTA  
CTGCAACATGGATTCTTTATTGTTCTTTAAACAGACAAGCTCCTGGCTCAGGGCCTTTGCTT  
CTTTGGTTCTGTTTTTTCCACATACCTACATGGATCCATCTTTGTCTTTACCTCCTTTTCA  
TTTCTGCACAATTGAGTTTTCAATCAGAACTTTCCGACAGCCCGTTTTAACATTGTAAATCTT  
TCCATCCCTGGCCTTTTCAATTCCTCCATGCTCTGATTTTCTCCATCGCGCATTTTATCATCT  
GATATACCAAATATTTTACTTATTTTCTCTACTTTGCTCATGCATTACAATGACATCTCCATGG  
AGGAAGATGTTTTGGATTTTTTTTTTAACTGCTGTTATCCTCAGTGCTCAATAGTAGGTACG  
CGGATGAAATTCATTGTATAGGTGATTTCGTGCAACAGCTTCTGAATTTTTCTCCCTCACCC  
ACCTTACAGCCATTAGTCTATAATAATTTAATTTGGGTTTGTTGGGTATAGAACTGTATTTGC  
ACAATAATGATAAAGCCACTCAGGCTCATCTAGTCATTTCTGAATTTATGTGTGTAGGAGTA  
CCACAGAGCACAAAAGATGGGCACCCCCAGCTGCAGCCGACTGTCAGAGGTGCAGGCCTC  
CCTGCATGGATAGTCTGGGCCAGCCACACCCCGAGTTCCACCCTATCAACTCCCTGGAG  
ACTTTTTGGTCACATGCACTGCGCCAGGTGATGCTCTGTATATTTGAGGAAAGAACCCGA  
ACCAAGACACATAATTCTCCATGGTATTGGAGGCCGACCGCTGCTCAGCTGCCCTCTCTCTC  
ACCCAGTAAATGCAGAAAGCTCTTAGGACAGACAGAAAACCTGCCATGGGGCTGCTTCCCT  
CCCTCGCAGGGCTGGCGGAGGCTCCGCATCGCCTCTCTCCTAGGATACAGAAACCATGGC  
AACGAAAGTAGAATGTAAACTCGCAGCAGATATCAGTGGGAAGGGCTGGGGGAGGGGGC  
ACCCAGCTGCCCTTCCCTCCACAGGAGCCACCAGCCACCTCTCAGGAGAAAGCCAGA  
GGCCCTGGCCAAAGATAGGAGGAAGAAAGAGAACTCTCCATAGAATGTATTTATAGATGCG  
CGTATATGTATATATATCTATTTATATGTAAATAGGCATATATGAAGATATATATATAGTCTA  
CTTTTTAAACTCNNNN

&gt;1128

&gt;1129

&gt;1130

&gt;1131

&gt;1132

&gt;1133

&gt;1134

&gt;1135

&gt;1136

NNACCACGCGTCCGCAAGGACAGGTGCGTGTCCATCCTGTGTTGCAAATTCGTGTAA  
ACAAGTGCTCAGCTCTAGGGGAATGAAGGCTGTTTTGCTGGCTGATACTGAAATAGACCTTT  
TCTCTACAGACATCCCTCCTACCAACGCACTGACTTCACTGGAAGATGCTATTTACCAAAA  
ATCTGCAAATGTAAACTGAAGGACATCGCATGTTTAAATGTGGGAACATTGTAGTTTATCAT  
GTGATTGTTCCATGTAGTTCCTGTCTTCTTTCTGCAACAACAGACACTTCTGGATGTTTCAC  
AGCCAGGCAGTTTATGATATTAACAGACTAGACTCCACAGGTGTAAACGTCCTACTTCGGGG  
CAACTTGCCAGAGATAGAAGAGAGTACAGATGAAGATGTGTTAAATATCTCAGCAGAGGAGT

### Table 4

>1137  
>1138  
>1139

**>1140**

Page 301 of 355

Table 4

GTTTTTTGGTTGTTGTTTTTGTCTCAAAAAAGAAAAGAAAATTTCTTAGTGTTCCCTAG  
TTGACTGTATTAGCTTTATCAGCCATGTTTTTTTTTCTCTTTACCTAGAAAACAATGTTGGG  
CTGACTTACNN  
>1141  
>1142  
CCGATATAGCAGAAAGCATGAGTTTTGTTGTGAGACAGACTTAGCTCTACATCTTTTA  
TGTGAGACTTAACCTGTTTTTCTATGGGCAAATGACCTGAACTCCTGAATCAGTTTCCCAT  
CTGTAAAGTGAGGATGAAAATAGTATCTACTTTATTGAGATTTTTCTTATTCATCTGTAGCATC  
TTTGTGTAATGTCATATGGATGTAACCTGGTTGGTACTATTAGCAACTGTGATGATGATGATT  
GTGAATCTTATTTTCATATCTTGGGTTTTCTTACAGTGAAATATTTGTTGCTGTTATTTCTTTG  
TAAAAATAAACCATGTTTGCATCTTGGTCTTCTTCCATTTGGATTCAAAAGTTTTATAGTGAT  
TCCTCCTAGTAAAATTGCATTTTCTCCCTAGGAGTACTTCTTTGATTCCAGAGTATTAACAGAT  
GGAGAACTGGCTCCCAATGATAGATGTTCCCGTGTGTGTGGAAAAATAGGCCACTACATGAA  
AGACTGCACCTAACAAAGGAAAAGGTTGGCAAATGAATATATATCAACATTTGAGGAAAATAAA  
TGAGAGGCCAATTTGTAGCTATAATTATGTTTCAAGAAATGTTTAACTGAGAAAGTTTAGGGTAT  
TTAATTATACCTAAGGTAAATGTTTCAATTTGAGTGGAATTTTGTAAATAGGGTAAGATTTGCATGT  
GGTATAATAGTATCTTCTAACATTTTCAATTTGTTTATTATTCAATTAATTCAGTCAATTTTTTTT  
TTTTGTTTTGTTTTATTTTTGTTTTTTTTGAGACGGCATCTCGCCCTGTCGCCCAGGCTGG  
AGTGCAATGGTGTGATCTCGGCTCACTGCATCCTCCGCTCCAGTTTCAAGTGATTCTCCT  
GCCTCAGCCTCCCAAGTAGCTGGGATTACAGGCGCACACCACAATGCCAGCTAAATTTTTG  
TATCTTTAGTAGAGATGGAGTTTACCAACATTGGCCAGGCTGGTCTCGAACGCCN  
>1143  
>1144  
>1145  
>1146  
ACCAAGGTGAAATTTGAATGTGTGAACGCATTGTTCTGTGGAGTCTTTTTCAAAGAG  
ATTTCAAAGCCACAAGTTAGATAAGCCCAAGAAGTAAGGCCAGAGTGAGATCGAAGTAGGC  
CTTTCTTTTAAAAATAATAGCTTTTATTTTATGTCAGTATCTTCTTTACAAATCTAACCTTCCC  
TTTTACGCTTTTTGAAAAGATAGCTAAAATTCAGTGTGTTCTCTTATTATAAAGGATTGGGC  
TAATAGTTAAGCATTTCAAAACATTTCAGTTTCGTTAATCAGAAGCTGCAGTGGGTTGTTTTA  
TAGCCAGTTTGCTTTTAAATTTGGCCATGTGGGCTTTAAGTTCAACGTATTTGTGTTCTCTTTA  
TTGTTACTCTCTCCAGAGTATTACCCAACTGTGAAGTCTGTGTTTATGGGGATGGCAAACAT  
TCATTCTATTGAGGAGTTTTCACTCTCTGCGGTTGCTGTGCACTCAGATGCCAGATCCGG  
GAAAGTAAGN  
>1147  
NNNCCCCTTTTTTCCCCCCTTTGGTCCCAGGTGGGTTCCCCCAAAAACCCCCC  
CCAGGGGGGAATTTCCCCCAAAGGGGTTCCCCCAAAAACCTTTTTTTTTTTTTTT  
TTNTNGGCTATGTAATACTGTCTAATAATTGAGACTTTTAGAATCTAGAGATGATCAGAGTGA  
TCTTTTGGGCTGGGAATTCATCAGGAAGTGGGCTGTAGGAACCTATTCTCGGGCTTCCCAT  
GGCCTTTGATCTCCTGTTACGGTCCCTCCACAAACATAACATGAGGCGACTTGTAGAGACTG  
GGCTACGTGTTGCGCTAATTGCAAAAACAAATTTTAGTTTTCTGGAATCTCAGGTAAGTGG  
CACATTTAGTTTATCATAGAAAGTCTGAAATACTGTTCTGGAGAGCGTTTTTGAACCTCTCC  
TTTTATTAGGATGCTTACACTAGGATCTAGTCTTTTCCATCAATGCCTAATGATACATTTTT  
CCTTTATTACATTTGGGCTGTGAGGGGTTTGTGATTATCAATTCTAAAAGGTTGCAGCTCCAC  
TCGTGCAGGAGGGGCTGACTTTTCTTTTTGGAGCCAAACAGGATCTTTTTTATCTTCTGTTT  
AAGTAGCCCAATGACACAAGACCAGTATTGACACATCTCACATAAATATGATTCTTGACAGA  
TATACTTATTTTTTTCTGTGTAACTTTTTCCAATTTAGAGAACCGCATCCTATCCATGCTG  
CTTACTATCAATAGTGGCACAAGCGTCAAATTTAAGGTTACATTTTGGGACCCCTTTTTCTT  
CTGTTCTAGCTATTACTTTACTTGTGTACCTAGAAAAGGACCAGTCTTAGTCTACTTCAA  
AGACTGTGATCATGGGAGGTTCAAAGGGGTCATAGCACACATCGGGCTGGTCACTTCTGG  
ATTACATACTTTATACTGAGTGTTATTATACAAACAGGTTTCTTTTGGAGTTCCTAGGCATTCA  
TAATAACTATAAAATAATAGGACTGTAGCAATCTTTGTCCTACCTCAGTGACTGTATAT  
ACTGGAAACAGTCTCAGTCTGAGGAAGGTCAGTTGAAGTCTTACTGTACAAGTCCAAATTT  
TAAGGAAAATGAGTCCCGCGATGAGTTTCTCATGCTTCAGCTGTGCGTGGACCAGTCAGCT  
TCCGGGTGTGACTGGAGCAGGGCTTGTCTGTTCTTTCAGAGTCACTTTGCAGGGGTTGGTG  
AAGCTGCTCCCATCCACATACAGCTCGCAGTCTACTGATGTTTAAAGGTTGGTCTCGGAGGTT

Table 4

GGGCCTACTAGGGTAGACTGAGTCTAACACCTCTACACAGTTTATGTTCAACTGGGCTCTCT  
GATACCAGGAGTAAGGTGTGCAGGGTTAGGGTGTGCGAACTTCAGTGGTTATGCGGGAAT  
TTTCACAGAGCAAGCTTTGGTATCTAGTTAGTCTAGCATTGCTTAGCTAGGATGCGCTTTGGT  
ATTTATTAATAATCATCACAGCATGGGGAGACTTTAGGTTTTGCCCAAGAGTTAGCTTATCTGC  
TTCTTATGCTAACAGGGGCCATTGCTGCCAGGGGCCCTTAGACATGGGGGCCAGCCTTTGGAA  
ACCCCATCTAGTTGTTTTGAGAGATAGGCCACTGGCCTTGCCAGGGGCCCTACAGTCTGGG  
TTAAAACCTCCAAGTCCATTTTTTTTTCTTTTTGACACATGGAGTGTAAGAGTTTTGTGAGGTC  
AGGTAGCCCCAGGGCTGGGGCCGACATGAGTTTTCTTTTTAACTCATGAAAAGCTCGTTGC  
TGTTGGTTGTAATAGATGTAGTGTATCTAATTTACATTTTTATTGACTGTCATCTACCAAATA  
TTGACTTCAGTCTGTAAGTATTTGATTTCAAGCTTTAAATTGATCTGGTATTCCTGCGGGG  
CTCCAATTGCATCTAAATATACCCGCGT

&gt;1148

NNNATGTTAACAGGTAATGTAAGAAGTTCTCTGAAATGTCAGCAAGTAAGTTCTGAA  
ACACATCATGCATGAGTAGGAATAAAACCCAAGTTCCTCCATAACGTAGATAACTTAATGCTGC  
ATAAAAATATGAAAGTGTAACCCATGAAGGACACTTTTTCTTTCCACTGCAAAGTTAGCCACT  
TTGCTGTTTTCTCTTTTTAACTTTGAAAATAGACTCTTTCCAGAAATTGGAGCAATAATG  
GTGTTACACACACACAGATTAAATAATTTGTAGATATTTTAAGTGACTTTTGGGCAAACTGGA  
ATGTATACTTTTACCTTGTTTCAAACACCTAAGACCAGTAATTTAAAAATTACTAAAAGGTTTA  
CTTTGTTTATTAATAAAACATTTAACAATTCAAATTATATGCACCTTTTACCTAGTTGAAAAAA  
TACACATTCTGTTTTACATTATAGCAACTGATTAAGCTGAAGCTGTAAGTCATTTTTTATAG  
ATGAGTGATCCGCATCTCCATCAATTAGAACACTGGAAAAGATGTTTTATAAAAGAGGATTT  
AATTTGTTGTAGGATTAAGTCATGCAAATAATAAAAAAGATATCCTGTTGTTCAATAGTAC  
ACTTGCNNN

&gt;1149

NNAAAATGGAATCTGTTTCGGCCATATTTTTATTTTTTTTTTTTTACTGCCTCAGGTAT  
AATTTTGCAATGGCGGTTTCGCAACTTGCACTGCTGACTACCTCTGTTATCATAACTAATC  
TAGGTAACAATTAATAAGGTAAATGTAATGCGATAAATACTTGGGGACAACTGGTCATAA  
TTTAGAATCTCAAGCTATATTAAATAATAGATATTTTATTGTTGTTTCCAATAAAATG  
TATTGGAGGAAAACCTTTCCCAAAAAAAGTGTAACTTTTTAAAAAGGTGGAATAAGTTTTG  
CCTAATTCAAAGCTTATTTAAAGGTTTTGTGTAACAAGGTAAAGAACCATGAAATAAGAA  
AGATGTAAATAAAGGTACAAAAATAAAGTGAGGATTTTTGGTTTTTTTTTTGGTAAGAAGGCT  
TAAAGAAAAATAANN

&gt;1150

&gt;1151

&gt;1152

ACAAGCAAGACTTTCTTTAATATTGATAAAGAATTGAGTATCATGTATGCATTCCCT  
TTTATGATATACAATTAATTGTAAGTTATTTCCCTTGATGCAACCATCCACATTTTTCTTCTG  
ACCTTTTCTCAAGTCTTACAACACTTTTTAATGACTGCATTTTGGAGGTGGTCCAGGAGAA  
CAGATGTTGCCTTATAATGGTGTTTTTCCATTTTTCTTTGATTGGGCAAGGGGGTTGGAAG  
TATTATTTAGTCATTATATGGATTCTCTAAAAATTGTTCAATAGAATATGTATTCATTTATTCA  
CTTACTTATTGTTTATTTATTGCCTAGAGTATACCCAACACTGAGGATACAATAATGATCAAGA  
CAGGTCTAATTTCTGTCCCATAGAGCTTAAATTGTAATTAGAAAGAATTTTTTAAATAANNNN  
N

&gt;1153

AGTTAGTGTCATGTTTCATCATTAGCACCATCATCGTTTTTATCACATTCACCCATGGA  
TCACCGGTAACATAGAAAGGGCTTGGAAGTCTGATTGAGGAAAGGAAATCAGGAAAGAAC  
AAAGGAAATGAAGGAAGAATAAAAAAGAAGAGAAGTCATTGAAAAAGTATGAAAAATATGAA  
ACAGATAACAAGAAAGTAGAGGAGATTCCAAAAATACAACCCAGGTTTTCTGCCCTCATTCT  
ATAGAGTCTTGAGAATTGTAGGGTGTAAAGAAATAAAGAATCAAGTCTGAGAGATCCCTTTTGC  
TTCTTTCTGTCTCACTGATCTGGAACCCAGGTTGCCAGCTGGCTCCCAAGCAGACAAAGCC  
CTCTTAAATTATTTCTGGATTGCTTGTCTTTCTCCTTCTTAATTGAAGACTTTTCTGGGCTCT  
GTTTCATGCTGAGACCAGGTAGACAAATGTGTAATGCATGCATTTCTCGCTGAACCGGAC

&gt;1154

&gt;1155

&gt;1156

&gt;1157

ACAGGCTCCTGCCTTTAAGAGCACTGTTTTGCTTTTGGGGCAGAAAGCATGGACTTT  
TAAAGGGGGACTTGGCATGAATGGCATTAGAGGAGGGAGTGAGCAGTTGGGGGTCTGCG  
TGACTCGCTTTTCGTGCTTAATCTACTGGTGGTCGAGCTGGCTGCATCACAAGCAGAGCTAG  
GTTGTATAGTGGCCTTTGTCTCAAGACACTCTCCAGGTGGGAGAGCCTTCCATCAGGGACAT  
ACTTTAGGTTGCAAATTGACTGTTGTCTCTTGAGGCAATCTCCTTGTGGGAGAGAGTTTCTG  
CCCTGGAGCTTCAAAGTAAGCACGTAGTTAGATAAGCTTCCAGTGTAGTGAGTGTCTGGTGA  
AGGGAAGGTAAGGTTATGATTGCATTTCTGAAGAGCTAGGTAGGAAATGGGAACNNNNNN  
NNNN

&gt;1158

GGAGTCGACCCACGCGTCCGCGGACGCGTCGTTTCTGCTGACTCCAGTGTCCCGA  
GAGGCGCCGCTTCTTCGCTTTCTCGTCAGGCTCCTGCGCCCCAGGCATGAACCAAGGTTT  
CTGAACACTGGGCGGGAGCCAACGTCTCTTCTTCTCCCGCTCTGGCGGAGGCTTTGTGCG  
CTGCGGGCTGGGCCCCAGGGTGTCCCCCATGGCGGGGCCGCGGGTGGAGGTCGATGGCA  
GCATCATGGAAGGGGGCGGCCAGATCCTGAGAGTCTCTACGGCCTTGAGCTGTCTCCTAGG  
CCTCCCCTTGGCGGTGCAGAAGATCCGAGCCGCGCGGAGCACGCCAGGCCTGAGGCCTCA  
ACATTTATCTGGACTGGAATGATTGAGATTTGTGTGATGGGCAACTGGAGGGGGCAGAAA  
TTGGCTCAACAGAAATAACCTTTACACCAGAGAAGATCAAAGGTGGAATCCACACAGCAGAT  
ACCAAGACAGCAGGGAGTGTGTGCCTCTTGATGCAGGTCTCAATGCCGTGTGTTCTCTTTCG  
TGCTTCTCCATCAGAACTTCATTTGAAAGGTGGAACATAATGCTGAAATGGCACCACAGATCG  
ATTATACAGTGATGGTCTTCAAGCCAATTGTTGAAAAATTTGGTTTCATATTTAATTGTGACAT  
TAAACAAGGGGATATTACCCAAAAGGGGGTGGTGAAGTGATTGTTTCAATGTCACCAGTTA  
AACAATTGAACCTATAAATTTAACTGAGCGTGGCTGTGTGACTAAGATATATGGAAGAGCTT  
TCGTTGCTGGTGTGTTTGCATTTAAAGTAGCAAAAGATATGGCAGCGGCAGCAGTTAGATGC  
ATCAGAAAGGAGATCCGGGATTTGTATGTTAACATCCAGCCTGTTCAAGAACCTAAAGACCA  
AGCATTTGGCAATGGAAATGGAATAATAATTATTGCTGAGACCTCCACTGGCTGTTTGTGTC  
TGGATCATCGCTTGGTAAACGAGGTGTAATGCAGACAAAGTTGGAATTGAAGCTGCCGAAA  
TGCTATTAGCAAATCTTAGACATGGTGGTACTGTGGATGAGTATCTGCAAGACCAGCTGATT  
GTTTTTCATGGCATTAGCCAATGGAGTTTCCAGAATAAAAACAGGACCAGTTACACTCCATAC  
GCAAACCGCGATACATTTTGTGAACAAATAGCAAAAGGCTAAATTTATTGTGAAGAAATCAGA  
AGATGAAGAAGACGCCGCTAAAGATACTTATATTGAATGCCAAGGAATTGGGATGACAA  
ATCCAAATCTATAGAGTATTTGCCTCTTAAATGATACCTCATTGATATATTGCACTATTTATA  
AATACTATAAAATAATGACTAGGAAGTAACCTATTAAAGGCTATGACTTAAATTTGAAGATGAA  
GTACAGTGTCTAGGTTTGTGAGAAAGGCTTCATTAAATTAATCTCACTTTGAATATCTCCTG  
AGAGATGGACAAATGAAATATCAGTTGGTGGATATGTGTGATAGCTGATTTCAATATTGAAGTA  
TTGAAATAAAATATTCTTTACACCTGAAGTAAAAAAAAAAAAAAAAAGGGCGGTGCTTAGACTA  
GTTTAGAGAAAGAACCTTCCACANN

&gt;1159

&gt;1160

&gt;1161

NNNAGATCCCAGAGGCTGAACACCTCGACCTTCTGTGCACAGCAGATGATCCCTGA  
GCAGCTGAAGACCAGAAAAGCCACTATCCGGAGGCTGAACACCTCGACCTTCTGTGCACAG  
CAGGTCCAGCATCCTTTGAAGCATGAGTTCTTACCAGCAGAAGCAGACCTTTACCCACCAC  
CTCAGCTTCAACAGCAGCAGGTGAAACAACCCAGCCAGCCTCCACCTCAGGAAATATTTGTT  
CCCACAACCAAGGAGCCATGCCACTCAAAGGTTCCACAACCTGGAACACAAAGATTCCAG  
AGCCAGGCTGTACCAAGGTCCCTGAGCCAGGCTGTACCAAGGTCCCTGAGCCAGGCTGTA  
CCAAGGTCCCTGAGCCAGGTTGTACCAAGGTCCCTGAGCCAGGCTGTACCAAGGTCCCTGA  
GCCAGGTTGTACCAAGGTCCCTGAGCCAGGCTACACCAAGGTCCCTGAACCAGGCAGCATC  
AAGGTCCCTGACCAAGGCTTCATCAAGTTTCTGAGCCAGGTGCCATCAAAGTTCCTGAGCA  
AGGATACACCAAAGTTCCTGTGCCAGGCTACACAAAGCTACCAGAGCCATGTCCTTCAACG  
GTCACCTCAGGCCAGCTCAGCAGAAGACCAAGCAGAAGTAATTTGGTGCACAGACAAGCC  
CTTGAGAAGCCAACCACAGATGCTGGACACCCTCTTCCCATCTGTTTCTGTGTCTTAATTGT  
CTGTAGACCTTGAATCAGTACATTCTACCCCCAAGCCATAGTCTCTCTTATTTGTATCCT  
AAAAATACGTACTATAAAGCTTTTGTTCACACACACTCTGAAGAATCCTGTAAGCCCCTGAAT  
TAAGCAGAAAGTCTTCATGGCTTTTCTGGTCTTCGGCTGCTCAGGGTTCATCTGAAGATTCTG  
AATGAAAAGAAATGCATGTTTCTGCTCTGCCCTCATTAAATTGCTTTTAATTCAAAAAAAAA

Table 4

AAGTCGACGCGGCCGCGAATTTAGTAGTATCACATTTGGCCCAAACCTCAGGATTCTCCCTC  
TGCCTGTCTTACTTCATGGT

>1162

>1163

>1164

>1165

>1166

>1167

ACTTTTCTGTCTTCTAATTTTTAAAATTATTAATGTCTTCTATTTTTCTAAGGCTGATTT  
TTTCTAATGTCTGTATTTTTCTTTTTTTCACATCTTGACATAAGTAGAGTTCATTTATTTTCAT  
TTATTCTTGTATAATAAAAATTACTTAAGGTTAGGAATAATTAAGTTTTGCTCCCATGTTTTATG  
TGTAACAATCTCAATGTTGTATGTCATCTACTTCAAAATTTCAAGCTTCCCCTTTAAATACTG  
TTTAAAAAATTTATGAAACCACTATTTCTCTCAACCTTTGTGTAATACCTGGTTTTACTTTAAT  
GTGGTCAGATAATTTAACCTGTACTGCATCGGCAGTGCCTTCGGACTGTCTATTTGACCTGC  
AGTCCAACCTATGGCCTTTCTCCTTTTGTCTCTAGTTCATTCTCTAACCACCAACCATGAATTT  
CAGGGAACCTTTTTCTCATTCTTTGTTTTGTGGCCACTTTCACAATGTAGAAGGAAAAAAC  
CAAATGACCCCACTGTGA

>1168

acGCGTCCGCCTGTAGCAGATTGGGTTTcaaaaagttcGGATGTAACATTGACATCCAG  
TTTCCAGCCATTATGTCTCAGCCAGATGTCCTCTTACTTGTTCAAGAATGTTTAAAGAACAGT  
GACTCCTTTATTGATGTTGATGCAGACTTCCATGCTAGGGTGCCAGTGGTGGTGTGCAGAGA  
AAAGCAAAGTGTTCTTCTGTGTAAGTGAGCGCAGGAAATGAAATGCTTGTCTGACAACAA  
AGCATTTAACTGCCCTTGGAAAACCTAGAACCAGGCTGGTTCCTTTGGTGATTGCATTTAGGT  
ACTGGGCAAAGCTTTGCAGTATAGATCGCCCTGAAGAAGGAGGTCTGCCACCTTATGTGTTT  
GCCCTGATGGCCATTTTCTTCTTTCAGCAGAGGAAAGAACCCCTTTTGCCTGTATATCTAGG  
ATCATGGATTGAAGGATTCTCATTAAAGCAAACCTAGGGAATTTCAACCTTCAAGACATTGAAAA  
AGATGTTGTGATCTGGGAACATACTGACAGTGCTGCAGGGGACACAGGCATAACAAAAGAA  
GAGGCACCAAGAGAAAACGCCGATTAAAAGGGGACAGGTGTCATTAATATTGGATGTGAAAC  
ACCAGCCTTCAGTACCAGTTGGGCAGCTCTGGGTGGAATTGCTGCGGTTCTATGCTTTAGAA  
TTTAATTTGGCTGATTTAGTGATAAGTATTCGTGTCAAAGAATTGGTATCTCGGGAATTGAAG  
GATTGGCCCAAAAAGCGCATTGCCATTGAAGATCCCTACTCTGTTAAAAGAAATGTGGCAAG  
AACCTAAATAGTCAACCTGTGTTTGAATATATACTTCATTGTTTAAAGGACAACATACAAGTAT  
TTTGCTCTTCCACACAAAATTACAAAATCCAGCCTTCTAAAGCCTCTGAATGCAATTACATGT  
ATTTCAGAACATTCTAAAGAAGTAATAAATCATCATCCAGATGTACAAACAAAAGATGATAAG  
CTCAAAAACCTCAGTTTTGGCCCAAGGTCTGGTGCTACCAAGTTCAGCTGCAAATACCTGTAA  
GGTACAGCCACTTACTCTTAAAGAGACTGCTGAAAGTTTTGGAAGCCCAACCAAAAGAAGAA  
TGGGAAATGAACACATCAGTGTCCACCCTGAAAACCTCAGACTGTATCCAAGCAGATGTTAAC  
TCTGATGATTACAAGGGTGATAAAGTATACCATCCAGAAACAGGAAGGAAAAACGAGAAAGA  
GAAAGTTGGAAGGAAGGGCAAGCATCTGTTGACTGTTGATCAGAAACGTGGAGAGCATGTT  
GTCTGTGGCAGCACACGTAATAATGAGTCAGAGAGCACTTTGGATTTAGAAGGCTTCCAAAA  
TCCCACAGCTAAAGAGTGTGAGGGACTTGCCACTTTAGATAACAAGGCTGATCTTGATGGAG  
AAAGTACAGAAGGTACTGAGGAAGTGAAGACTCTCTAAACCACTTTACCCACTCAGTACAG  
GGCCAGACATCAGAAATGATTCCCTCTGATGAAGAGGAGGAGGACGACGAAGAAGAGGAG  
GAGGAAGAAGAACCTAGGCTCACCATTAAACCAAGGGAAGATGAAGATGGCATGGCTAATG  
AAGATGAGTTAGACAACACCTACACTGGGTGAGGGGATGAGGACGCCCTATCTGAAGAGGA  
TGATGAGTTAGGCGAAGCTGCTAAGTATGAAGACGTGAAAGAATGTGGAAAACATGTAGAAA  
GAGCTCTCCTAGTGGAACCTTAATAAAATAAGTCTCAAGGAAGAAAATGTATGTGAAGAAAAT  
CACCTGTGGATCAGTCTGATTTTTTTTTATGAATTCAGTAACTTATCTTCACCAAAAGGCAAGT  
CTCCTACGGTAGTGTGCAGCTTATGCAAACGAGAGGGTTCATCTAAAGAAGGACTGTCCTGAA  
GACTTCAAAAGAATCCAGCTAGAACCCTCTGCCACCATTAAACCCCAAGTTTTTAAATATCTTA  
GATCAAGTCTGTATCCAGTGTTATAAGGATTTTTCTCCAACAATTATAGAAGATCAGGCTCGT  
GAACATATTGGGCAAAACCTAGAAAGTTTCATAAAGACAGGACTTTCCAGGAACTAAATTGAG  
CCTGTTTGGCTCCTCCAAAATGGATTTGGGTTCAAACAGAGTGACCTTGACGTCTGTATGA  
CAATTAATGGACTTGAAACTGCTGAGGGATTGGACTGTGTCAGAATATTGAAGAATTAGCA  
AGAGTCTCAGAAAACATTCAGGTCTGAGAAACATCTTACCTATTACAACAGCAAAGGTGCC  
AATTGTGAAGTCTTCCATTTGAGAAGTGGTCTGGAAGTAGATATCAGTTTGTATAACACATT

Table 4

GGCCCTTCATAACACAAGGCTTTTATCTGCTTATTCCGCCATTGATCCCAGAGTGAAGTATTT  
GTGCTATACCATGAAAGTATTTACAAAGATGTGTGATATTGGTGATGCATCTAGAGGCAGCTT  
ATCATCGTATGCATATACTCTTATGGTGCTATATTTTCTCCAGCAGAGGAATCCACCAGTCAT  
TCCTGTCTCTCAAGAGATATACAAAGGTGAAAAGAAACCTGAAATATTTGTTGATGGCTGGAA  
TATTTATTTTTTTGATCAAATAGATGAACTGCCTACCTATTGGTCAGAATGTGGAAAAATACA  
GAATCTGTTGGGCAGTTATGGTTGGGCCTTCTTCGTTTCTACACAGAGGAATTTGATTTTAAA  
GAACATGTTATTAGCATCAGGAGAAAAAGTCTGCTTACAACCTTTTAAGAAACAGTGGACCTCA  
AAATACATTGTTATTGAAGATCCCTTTGATTTGAATCATAATCTTGGAGCTGGATTATCAAGGA  
AAATGACAAATTTTATAATGAAGGCTTTTATCAATGGTAGAAGAGTATTTGGTATTCCTGTCAA  
GGGATTTCCAAAGGACTACCCCTCAAAAATGGAATACTTTTTTATCCAGATGTGTTAACTGA  
AGGAGAGCTGGCCCCAAATGATAGATGTTGTCGAATTTGTGGAAAAATCGGACACTTCATGA  
AGGACTGTCCTATGAGGAGAAAAAGTAAGACGGCGGCGAGATCAGGAAGATGCCCTGAACCA  
AAGATACCCTGAGAACAAGGAAAAAAGAAGCAAAGAGGACAAAGAAATTCACAACAAGTACA  
CAGAAAGGGAGGTGTCAACAAAAGAAGATAAGCCCATACAGTGCACACCTCAGAAAGCCAA  
GCCAATGCGGGCAGCTGCTGACCTGGGGAGGGAGAAGATCCTCAGGCCACCAGTAGAAAA  
ATGGAAGAGACAGGATGACAAAGACTTAAGAGAAAAACGTTGTTTTATTTGTGGAAGAGAAG  
GGCACATTAAAAAGGAATGCCACAGTTTAAAGGCTCTTCAGGTAGCCTTTCCAGTAAATATA  
TGACTCAGGGAAAAGCCTCAGCGAAGAGGACCCAGCAGGAATCATGAGGGAAGGAAAAATG  
CAGCACTCTAAATGGCCACTCAGGCGTTCCTATTCACTCGGAAAAATTAGGTTCAATTCACAG  
GACACAGCAGTGTAGATCAGGCTTCAACTTAACATTTAAGGGAAATGTCAGATTTTTTTTTAA  
TTTTAATGAAATTGTTAATGAGGAAAAATTTTAAATATAGTCTTATCTACCACACATCCCCATAG  
ATTTAAGGATTTTAAATAGAAAGTCATGATGTATGTTTAAAGCCACGTTAAAAGAAAAATATA  
ACTATGGACCGGTATTCAGTGAATACAGTTTCATGGTTTTTAATCTTTCAAAGCACATTAAAA  
ATGGTGTGCTGATAAACCCCAAGTAAATTAACCCTTTTTCCGTATAAATCCATTTTTTGTTTTG  
AAGAGGGGAAATTATATTTATTGTTGTTTACTGAATCCTGGTGTGAAAGCATATCAGATATGT  
ATGAAGTCTACTGCTGTACTTCCGATTTCAGGCACATCATTTTATTGCTATTTGTAGACGTGA  
TAACATGAACATGAGTACCTATTTATGTGGCCCTTCAGTGGATGGGCAGTGCCACTCAGGTC  
TCTGGGGTTTTCCCTCTCTAATTTAAGTAAATTGACATATACTACTATGCTTATAAAAAATGAA  
GTAAGGAAAAACAAGTAGTCCTGTTTGCCACTAAAAACATTTTCAAAGGAAAAATAAAATGAAA  
GTACTTTTTACTTTTTATGATACTCAGAAATTAGGATGAAGAACTTTTAAATGCTGAAGATC  
AAAGAGGTTATCTCTGCCAGTCACAAGTGTGGCTGGTGTCAATCTGGGTCTGACTGGAGCC  
CTCCTGGACTGTTTCTTTAATTTCAAAGCCCTGCAGACATAGTACCTGGTCAGAACTATGCC  
TCGGTTTATTTATCATTTTGAATAAAATCAAATTTCAACCTGTAAAAAAAAAAAAAaag  
>1169

GCGTCCGAAAAAAAAAAGTCCTAAAAATGGAAAGCCTTCGAATGGTTTATAAACAAG  
GCAGTGCCTTGATCTGATTTGTGTTATAAAAAATTCAGTCTGGCTGCAATGTGGATAATAGTT  
TGGAATGGGGAAGAGAAGATGTTGGGAAGCTAAGTCTCCTAGCAAGAATGATAGAATAGCTT  
ACAGTAGGGTAGTGGCAGTAGTGGAGGAGATGGAATAATGGAGATTCAGGGGCTTGAATTT  
GTTAACCATTTAGTTCAACAATATTTATTGATTGGCTTCTCTGTTGTGAGCATATCTCGGAGA  
GGAAGAAAAACAAGCCAGGATAATCCCAGGTTTCTGGTGTATAAATGTTGGTACTACTCTG  
CGATGGAATGAAAAAAGACTTGAGGCCCTGAGAACTGAACCATGATTAGGAGCCTTGGAAC  
AGTAGCAGTTGTCATCTGTGTAATAAGGTTATTGATTTCTAAAAGGTCTATGTTTAAATCAGAT  
GGATTAGTCATTCTGTCTTTCACACCTGTGGTGACTAATTCAAAGGAAAAGCCCTATCATTTT  
GCCAGCTGGTGTTTAAGAGTTGCTTTGTTTTCTGTGAAACCAGGTGTACTGCATTAGAAAAGT  
TTATTCAACTTTTAAATCATTAAAGCATTGTGATAAATTGTAACTTAGAAATTGTTTGGTTTACTG  
TATTAATAATGTTGGATTCTGTAAATCCAGCATTTTGGGAGGCTGAGGTGGGAGGATTGCT  
TGAGTTCAAGAGTTCAAGACCAGTCTGGGCAACATGGTAGGACCCCATCTCTACAAAAAGGA  
AAAAACAATTTGGCCTGGGAGTGCACGCTTGTGGTCCAGCTACCCAGGAAGTTAAGGTGG  
GAGGTTTACTTGAGCCCAGAAGGTTGAGGCTGTGATGAGCCATGATCGTTTCATTGCACTCT  
AGCCTGGGCAACAGAGTGAGACCCTGTCNNNNNN  
>1170  
>1171

GTGGCGGCCGCCCGGGCAGGTACGCGGGGGGAGGGCTCCGAAGTCTGGTTTTGG  
GCGGGAATTGAAACCGCCGCTGAAGCCAACAAGAATTTGAGAACTGTAAATACCAAGCCTTG  
AAAGGGACCATGGTGCAGCCTGTGAGACATAAGAAACAGTCAATTACTCACAGTTTGACCA  
CTCTGACAGTGATGATGATTTTGTCTGCAACTGTACCTTTAAACAAGAAATCCAGAACAGC



### Table 4

gaGCTctagAATCATATTTATTTGATTTCGATTACCATTATTGATGACATTTTCACATTTA  
AAAACCTACATAAGATTTTATAATAAATGCAACCACTCTTACCTGCTTAAGCAAATATAAACAAA  
CACTCCCAGGCCCTATTGTTTTAAAGGCTGTATATTCACCTTGATGGAAAAAGTGATGAACAGC  
AATGACTTCCCAAGAAAAAGAAAGAAAGTGGGTGTTACATATTCCTGAAAGCCGAGACTCT  
AATCACACAGAGGAATTTTATTGTAAGTTACATGCAAAAGCAAAATAGTTCTTCAGGAAAATAA  
ATAAATAAATGGATCAACTAAGATATACTAAACCTCAAAAAACCCTGAATAAAGATAAAGGTA  
AAAAATGATTAATAAAAAAACCCCTTAAAAATCTTAAAGAAAGTATTAATAATACAAAACGTTAAC  
TTCTCTACAGTCAAAGTTTCATTACAGGGGAGCTGAGGTGAGTTGGTTGTTGAAAACTTATT  
TGAAAGAAGTCAAAAAATAATTGCTTTATTTCTCTGTTTCATTAGTACTAATTCACAGGATCTTT  
GTAGGTTTTATCTGAAAGAAGGATATAAAAACTTAAAGTCAGAGCAGGGAAAGGGGAGTAA  
TAAATTATTAAGAACAAACTCAGTGAGACTTGACTTCACTTATGATACATGGGTAGAAAGAGC  
AAACCAGCCTTCTTCTTTCTGTTTCTCAATCTTTGCTCTTGGATTAAAGAGGTGTGAATCTCCC  
ACTTCTGAGGTTGGCATTAGTGGAGAACAAGAAATACCAGTAGCCCCGGAAGATCTTCTTG  
TATTTATCCCGCTGACGGGAGAGACAGTACTACATTTTGAGCTTTCTGGGGCTTCTGCTCCT  
GGAATAGATACCTCAATTGTCCTCTTTGCTCCTTCAGTCCATGCTCTGAGAGGTAACCTGAACA  
GGTGACATTGGTccacgagcctccatactttgtcgattcaattctgcctctgtgccgaattcggcagcagATTCTGCTTTTG  
TAAAGCAGTAGTTTGGATGGACATTGCCTCTTCATTGATTTCTCATCAATTCATTATTTT  
GTGGTTATAGCTTGACAAGCAATTAACCTTAAATGGTAGATTCCGTAACCTTAAATTTGGTAG  
CTTTCATTITGCTTAAAAATTTTTGGCATATGCAGATAATGTTCTCATCAGTAGTAAGAATCTCA

Table 4

GGGTTATGCTTATCCCCAATGGAGGTATGACATATAATCTTTCTGCCTTTACTTATCAATTC  
ACCAAGGAGCTGTTTTCTCTGCATCTAGGCCATCATACTGCCAGGCTGGTTATGACTCAGAA  
GATGTTATCTGAAAAAGTTTTGATAATACAAAAGCTACCATCAGAAGAAATCCCTTCAGGATC  
ATTAAGCCACTTCCTTTGCTCTGCAGTTTCTATAGTAGTTTTAAATTATTATTAATCACCTGA  
AAAAAATCCAAAAGAGAACCACACACTACCATATCCAAACAACCTTTTGCATTTCCCATAAAT  
GTAGTTAATGTCAGCCCAGTAGGCCAGACCAACCCCAAGTTCAATACTTTCTTCCCCAAAA  
GCTCTATACTTTGAAGGAAAAACAGATACAGTATCAAATTATGACACTTTCCTTGCCCAAATTA  
ATGCACTGGTACACCCAGTGGCTCATATTTAACTTCCCCCAGCTTCCCAATTCAAACTGGGG  
GGAAAAAACTAAATCATTGGGAGTTACTTGCCAACCTTGGAAGTTGATATTTCTTACTTTTTC  
CATTCTAAGACTTTAAGTTCTCTGGCATGAGTTTATCTGCAATCATAACTAAACAATTACCTA  
AACCACCCCAACCAATCCCAACCGTAACAGGCCACTGCCAACTAATTGCCAATATTTTGCCCC  
TCCCTTTAATAAACTTTTAAAGAAGTCACATTATTGAAAACTTAACTTCAACATTTAGCCTA  
CTCAAGCTCTTCTGAAGTTCTCCTGAGATGACTGAATATGAACCAAAGCTGCACTGTGCTGT

&gt;1176

&gt;1177

&gt;1178

&gt;1179

&gt;1180

&gt;1181

NCTGCAGAATTCGCCCTTGAGCGGCCGCCCGGGCAGGTAAGGCTTTCATAAAA  
ATACAGCAGGGCAAGAGGACCAAGATGGAGGCAGTGATCAGGGAATCTCAATGAGGGTGA  
GACTGCGACAAAGACTTGAAAAAGGTGGAGAAGCAAGCCTTGTTGGTATTTAGGGTAGCAG  
TAGTCCAGGCAAGGGGAACAAGTGTGCAAGGCTCTAGGAGGCAATGTGTTTGAAGTGT  
TTAAGAACAGTAAGGAGGCTAGTATGGTTAGAACAGAATGAGCAAAGGGGGCAAAGTGGTA  
GAAGGTGAGATCAAAGAGGTAATGAGGCCATTGTGGAGGCCCATATGGACTATTGGAAGGG  
CTTTGGCTTTTACTCTAAATGAGGCAAAAACCATTTTAAAGCAGAGAGGAGTGATGACTTGA  
TTTCTTGTTAAAAGGATTATTCTAGTTGCTGTTACAGAAAAAGATTACAGGGGTGCAAGAAA  
CAGGGAGACAAAAGAATATAAGATTTTCACTGTAACCTATATCTAGTATGCTTGCTTATACTTG  
AAAATGCATATCCAGATAATTGTAGTAAATTCAAATATTATGTTTATTTAATAGTACTAACATTG  
ATATGCTGGTTAATTATGATTAGGAGCACTAATAAAGCACAAATCAGGGATTCCCAAAAAGAA  
TGTTAAAAGGGCAGTCAGCTTTTCTGTGCCAGAAATCAAAGTCATAGCAGATTTGGGGCAA  
ATATGTCAAAGTCAAACCTTACGCACATCACTACTGAGAAGACAAAGATGAATGTGTGACAGTT  
TCCTGCCCCCAAGAATCTTTAAGCATTGTGAAGGAAGATTAATATAGCCAAATAACTAGAGTG  
ATCAGTTCTACCAGAGAGGACCAGTTTTGGAAGCCAGAGGAAAAAAAAAAAAAAAAACAGAAAC  
AAAATGATGTTTGAATTTAAATCTTTAAAAGTTTCTCTTATAAATTTACCAAGCCACATATTGGG  
AATGGTACCCAGGCAGAGGAGTAGAGTAAGCAAGCCAGAAAGGAAATACTATGGTGCTT  
TTGAGTAAGTGCAGTGTGGCTGAAGAATGTGGAATGATGAGGATAAAGAGGTGGACAGG  
GAACTAGGTAAAGGGAGGGCTTCTTTTAAATAATTAGACCTTGTCTGTGTACATTTAATGGG  
ATTTAATCAGGCCATAATGCCAAATTTCTTACTTCGGAAGGATCTTTATGGTGATGGTTTCA  
NNNNNNNNNN

&gt;1182

&gt;1183

&gt;1184

cttaTTTTTCccacttGCGTTATGatGgtATCAATAAGAGTGCAGTTTAGATTTTTTAGTTTT  
TTAAATCAACTTTTACATAAAAAATATGCATGTGCCTATATTTATACACATCTGTATTTACGTA  
CAATTGTCAAAGTCTTAAAGGCTGGGGTTTATATCTCTGCCATCCCCTCCCAACCCCAAAAT  
CCCTAATAGAAAGGTTTTATCTTGTCTTAAAAAGACAAAACAACCTAAAAAGACTATAGCTCTTA  
GCAGTCAGGCTGGTGGATCAGTGAATGAGAGAGGACAAATTGGCGAATCAGGGCTGCCGAT  
CAGCCGCACGGGGCGCGGAGGATGGGGTTGGGGGGATTAGCTGCCTTGGGCTGAGTTTG  
CTGGTCCTGAAGATTACAGTTTTGTTAGAGAGAGAAGCCTGTCTAGCATGCTGACTCGGTC  
TACCTCAAGCTTTGAAAGTAATGTCTAACCCTGCTGCCAGTTTATCACAAGTGCATTAATAAT  
ATAGAGAACCATCAAGTTCACATTTATATGCAACTCAAAGTGAAGGAGGACGACAAACAGTG  
CAAAGGTCAAATAATTACTGTTTTATTTGGGACAGTACATTTTCAAGTTTCAACCAAAAGACAA  
AAATGCAGTTTAACTCAAAGGCACAACAATTGAAACACAGAAAATAATGGCATCTCTTGGATG  
CCTTATTTCTAAATTAACAAAAGATACACAAATTTGTTCCCTTCCCTCCCCCAGTGCAAG  
CCCACAAGCTTTTTCCAAAGTCTTGAGCTTTTGATGCTGTCCCGCATTGTGGACTTGTGAGG

Table 4

CGCTTGGATGTAGCAATGAAACAAATGCTTGAGAGGTCTAGTGAATGGCATTCAAAGGGA  
CCTCAAAGTGCAGACATATCTTTTCAAATATGTTACAGGCTGAACTGGCTCTTTGAACACTA  
TCACTGCTGCTTAAATCCAGGAAGCAGGCTTTAAAAATGCAAAGGCATACAAGTTGTATTT  
AGTGCAAATCTTTAGCTGGTTATTGGAAGAGATTCCAAAAATTAACAAAAAATCCTT  
TGTGTACCTGCCCTCCCCCACCACAAAGCCAAAAATGAAGAAAAGACAGAACAAAAACAAA  
ACAGAAAGAAATTACAGATGACTTTGGAATCATTTAGGAATCCACTACTTCCAATCAGAATGTTT  
AGAAAAATACATTAAAGAATCATTTTTTAAAAACACAAAAGTAATCTTGCTTTCTGAGACTGC  
TCTTCGGGTATAGAATGAGCTTCCGTGTGGAGTGCCTTTGAACTTTGACCTTAGCTGTGTGC  
GAGGTGCAGGCGCTGGGGGAGCTTCAGGCTGTGGTGTGCGAGTGACCGCAGGGGAGCGT  
GGGTGGCTGCCGCTGCCGAGTCAGCCGTTGAGCCCTTAGGTGCGAGTGCCTCCGTGGA  
TTTTAGTAATGTTCTCATCACTTTGTGACACACTCTGCTTCAGCATCACAGATTTTACAAATGG  
TTCAAATTAATGAAAAAGATTGCCAGAGGCTGAAAACATCAAGACCTCAAAAATATGAATG  
CAAAAATATTCAGGGGAATGAACTAATTTTGTAGATACCTACATACAAAGTTTCTAGAACATCT  
ATAAAACCACAAAGTCATAAGAATTTGTTTTCCATTACATTAGTTTATATAAAATGAATAAATAG  
TATTTATAGATTTAATGTGCTTATGTACATATACATGTGCTCTGTTTTAGCTTAAATAAAATG  
CTACAAAGTCGGAGCGGACGCGTgg  
>1185

caAAATGTAAAAATAGCCTTTAGGACTGAattagaGtGAAGTTTTTTTTGGTTCCAAAGccGT  
AGACAAAAAGTCTGCCTCATAAAGTTGGTCTCCAAAGATAAATTCCAAAGAAATTTATCCATC  
TTTAGACACGACACCAGCACATTTTTCTACTGATACGGTTTTACATAGTTAAGGACTAAATAA  
AAATTGATTATTCAGAATGATTATGTTTATAATTTGTTCTAAGAACTACACTAAAAAGATTTT  
TAAAAAGCTTCTATATTCTTTAAATTTTTCTTTGTGACCCCACTTTTTCAGAGAATATTG  
TTTACAGCACTGCCTATCACTGTTTCCATACTAAAATAATTATTTTCTCTTTATGCTATAATGAA  
AGTTAAATTATGCTTAATCAAAATGACTATGGCTATGGGGTGGCACTCATTTAAATTTTTTCAG  
CAATGAAACTTAAATTTATTACCTTTCTTCTAATGAATATAGAATAAAAGTATTGATACCTTTAA  
GCATACTAACACAAGAACTAAAAGCAAAAATACATATTTAATCTTCAGCTTTTAAATAGATTA  
TATATATTAATTTCCAGGTTTTAAGGAATTAAGTTTACATTAACAATAAAAAATATTCCATAT  
TCCCTTATAAAAGGTTCTATTAATTTCTAAGAGTTCTCAAATGGGCTTCAATAAGAAATGATGGG  
TTTAAAGATGAAGGACATGACACGCTCAAAATTAAGAAAAATGCTGTATTTGAACTTGAAGG  
ATAATTGAACACTTTGGTTATAACATACTTAAAGATTTCTGTTAAATTTAATTTCTTGT  
CAAATTAAGGTAGAACAGTCTCCTGAAGGTAATGTAGGTGGTCCCTTGCTTTTCAGTTAC  
TATAAACTGTGCTAACCAATACATGGAGGTGAAGGGGATATAAAACACAAATTTTTCATCA  
CTGAAATAATTAGCTGCTAACATGACTTCTAAGAACAGGTATAATATAAACTAAGAACTTAT  
TTCAAATATGAATAAAGGCACTAATTACAAATGTACATTTTTTAGACAGTATCTTACAGTTCA  
CTGATTTACAATGAATGTCAGAACCAATGCTCTAGTATTAGATACTTGCTTGGGTAAAAACAT  
TCTCTTGGAGTAAAGAATAATCAGTTTTACGTTACTGTGACAGGAAAGATTGAGTGAACCC  
TAAAAAATACTTTAAAAAGTCTTACATGAATTTCTAATCATGAACTTTTCCCAATCAGCACC  
GTCTACACTGATGCCAATTTCTCTTCAACACATGGCTAACATAAATCATTTCTAATCCAAAC  
TAACCAATATTTTTTAAAGGATTTACAAATAAATTGTATTTAAAAATTAATAGCAATTTG  
AGTCTATACTAGTAGTTGGCAAAATACAATCACTATTAACAACTTTTAAATATAATGCTGAT  
GTGGTAATATAAAAAATAACCATATAATTTGACAGAAGAAAATTGAGCCAGCCAATCTTACTA  
GATACAAGAAGGCAGATAGTCATTTTCATAAGAACAATAACAGGAGTACTAAGTATGCTTTTT  
TCAGGACAGACTTAGGGAACTACCCTCAGTACTTACGGTAAACAACACAACCAAGCAGAAA  
TTCAGGCAAACTGTGCTTAGGTAAATGGCATTTTCTTAATCCCCACATCCCACACACACCA  
CAAACCATCCATATCGATTTATGTCTGCTTTTCGCTCATGTTCTTGATTATGGGTATATTTAA  
AACTAAGTTAACTACACTTATCCTCTACTTGATACAGAATCACTAAGAAAACGGCTTAAAC  
AAAGTTAAACAACACTTTTCCAAAGCCCAGAAAGCTTTCTTTGGCCACTGTTCAAGTTCAAGG  
GTGTGCTCCAATAAGATAAATCAGAAAAATGTTACCACATTCGACTAAATTAACCTTGACTA  
AATATAATAACCAAGCACACCTGAAAAAGAGCAAAATTTAAATCACTTACAAAAATATTAA  
AATTAATACCAATTTTGAACACATATTTTGATATTATGAACCTTTGTATCTTTTTATCAAAT  
AAAAAGTACTGCAAAATGAAGTATTCTCTAAGTATTCATTTTATCCCTTTTCAATTCAGCA  
AAATCACACATTTGAATAAACAGGATCGAAATACGACACTTGCTTTCTCTTAAATTAAGGAA  
TATATTGTTTAGATTATTGTTTATATTAGACAACCTGCCTCAAAATGTTTTAATGCCATCCAAT  
AAATAAATCTTTGATAGATTATGACTTTTTTAAATTTAAGTTGTTAAGAATATTAACCTTTGAGT  
CTCCTATTAATATTCTAAAAGCTAGGATTCAATTCAGCAGTTTCTATAACATTTTAGAACCCA  
AGGCATAACTACAAAGATGGCAATTGTTTCAAGTCTATTACATAATACCGTCAAATAAATCAA

### Table 4

**≥1186**

**>1187**

**>1188**

**>1189**

**>1190**

Page 310 of 355

Table 4

ACAGTAGGGTAGTGGCAGTAGTGGAGGAGATGGAATAATGGAGATTCAGGGGCTTGAATTT  
GTAAACCATTTAGTTCAACAATATTTATTGATTGGCTTCTCTGTTGTGAGCATATCTCGGAGA  
GGAAGAAAAACAAGCCAGGATAATCCCCAGGTTTCTGGTGTATAAATGTTGGTACTACTCTG  
CGATGGAATGGAAGAAAGACTTGAGGCCCTGAGAACTGAACCATGATTAGGAGCCTTGGAAC  
AGTAGCAGTTGTCATCTGTGTAATAAGGTTATTGATTTCTAAAAGGTCTATGTTTAAATCAGAT  
GGATTAGTCATTCTGTCTTTACACCTGTGGTGAATAATTCAAAGGAAAAAGCCCTATCATT  
GCCAGCTGGTGTAAAGAGTTGCTTTGTTTCTGTGAAACCAGGTGTACTGCATTAGAAAAAGT  
TTATTCAACTTTTAAATCATTAGCATTGTGATAAATTGTAACCTTAGAAATTGTTGGTTTACTG  
TATTAATAATGTTGGATTCTGTAAATCCAGCATTTTGGGAGGCTGAGGTGGGAGGATTGCT  
TGAGTTCAAGAGTTCAAGACCAGTCTGGGCAACATGGTAGGACCCCATCTCTACAAAAAGGA  
AAAAACAATTTGGCCTGGGAGTGCACGCTTGTGGTCCCAGCTACCCAGGAAGTTAAGGTGG  
GAGGTTTACTTGAGCCCAGAAGGTTGAGGCTGTGATGAGCCATGATCGTTTCATTGCACTCT  
AGCCTGGGCAACAGAGTGAGACCCTGTCNNNNNN

&gt;1191

&gt;1192

&gt;1193

ACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCATTCAAGAAAGATAATTTTACACTT  
ATTCTTTGAAAGAAAAATTCTATGGAATTTCTTCTTCTAATTAATTCAAAATACATTCTCTC  
AACCCTATGCCCTCATACTAGTAACCTGATGGTTAGCGGGTAAGTAGGTAGTAGTAAAGAG  
CAAAAGGGGAAATTTGGGGAGCAAAAAAGGGAGAAAAAGAAAAAGGGACCCTTCTAGTTT  
CCTAATAGAAAAGCTAGAGAATTCCATTCTGAAAATTAANN

&gt;1194

&gt;1195

&gt;1196

&gt;1197

&gt;1198

&gt;1199

aatattaGATGAAGTTtctcAaAcatctctgaGaCATggcaggacAGcgccaGGGATccTccttcAgGAA  
GAACTAGATTTTACATTGGTACTAATTCAATCAAAATATTTAAAACATTTTTAATATGGAACT  
GAGGCTTTTTCACTCTAAGAATCTGCCTCCAAATTCAGCTGAAGATTTGGATACACTGTGAT  
TCTGAATAAACAGTCAAGAAACACAACATCAAAACAATAAAAGCTTTTAGCCAAATGTACAGTA  
TCCAGTAAAAAAGGCATATTGAGCTTTAAGCTGCATCAATCATTGCTGTTCTCTACATTTGCT  
CTGCATTATAACAAGATGAAAAATAAATACTTGGTTAATCTGCTTATTTTATGCAAAATTTGTCA  
TGTAAGGACCTCTCTTATTTGTTCTCTATTTAATATGTTATCAATCAACATATAATCAAATAG  
GTAGGTGACCGTTATACCTTGCTTCAGCTGAATTTAGAATTCTCTCTATATTTTTAAGATGTC  
TTAAGCATACTCAGAAATGAAGGACTCAAGAAAATGTTCAAGTCTTTTATTTAAAACTATAAAC  
AGTCACCAAAGTAAATAAAGCCATTCTATAACATAAACTGTTAGGTCTATATTTTTACTGCAC  
ATCCTAAGGACACAGCAGAAATGGTGGTTGGGAGGCCTTCCACATTTTTGGATGCTAATAGA  
ACAGGCAATAGGCAGTTATAAATGGATACATTTACGCTGGGGGAAAAAGACAATTTAAGG  
AAGTGAGCAGTTTCTGAGCAGGAATGTGGTACAGTATTAAGAAATGGAAGAATAATACAATAA  
AATCCACACTATATTAAGATAGAAAAAGTAGTGAAGAAAATATCATACCTGCACATAATGCA  
TATATAACACAGGAGAAAAACCTGTATAAAATCCATGTATTTAAACCAATTTACAAATACAAAA  
AATTCTGTCCAAGCTCTGAGcctggTACACGACAAACGTTTACAGTGGATACATGTTAAGGAAA  
ACCaaaaataccttcaaatagtttttcttaaaaaatgacatgagatatatttccatactttcagccagcaaatgagttctacaag  
gtgtataata

&gt;1200

&gt;1201

&gt;1202

&gt;1203

&gt;1204

&gt;1205

NNNNNCTGGCCTGTCTCCTTCTTATTGTATTGGCGAGTCTGGGCATTTATGGAACGC  
ATCTGTGGGGGTGGTCATATGCCAGTGAGCTATGATCATACCACTGCACTCCAGCCCGGT  
GACAGAGCAAGACCCCATCTCTTAAAAAGAAAAAAGAGATCCCATTTTATATTATCAGAT  
TTGGTAAAAATAAAAAAATCTGACAAAGCCAAGTCTTGATGAGATATGGAGTACCAGAAGC  
TAATCCCCACCGGGGTGGTTTAAATAGGGACTAACTACTTTGGAGGACATGGAAGATACCT

Table 4

CAAGTTTAAATGCTTATAACCCAAGGCTCAGCAATATTCTAGTTAATACTCTAGAGGAATGCT  
TGCACAGTGCCCAAGAAGGTATTAAGAAGATGTTTATTCAGGTGTTATTTGTCATAGTGAAAT  
ACTGGAAGCACTGTAAGTGTCCATTACAGAAGAACGGATAAAAACTATTGTGACTAATTTATA  
TAACAGTATAGCATACGGCAGAGAAATGAGTGAAGTACAGCTACATGAATAAATCTCAAAAC  
GAATGTTAAGACAAACAAGGCCGGTTGCGGTGGCTCACTCCTGTAATCCCAGTACTTTGGGA  
GGCTGAGGTGGGTGGATCACTTGAGGTGAGGAGTTTGTGACCAGCCTGGCCAATGTGGTGA  
AACCCTGTCTCTACTAAAAATACAAAAAATTAGCCAGGTGTGGTTCATCNNNNNNNN

&gt;1206

&gt;1207

NNNNCCATTGCTATTATCTAAATAAAAAAACCTAGATTTATGGTCTTTTTTTGAAAAT  
CAGAAGGATCTAACAACACTAGACTCACATTCCTACACATATCAACTAGACAACCTAGACAAAG  
TGATTACCTTACAATAGGCAAACACTTTCTAGTTTTCTACTTCCCACAGTTTTCCCTAACACCG  
TGAGTGAATATTAGTTGCCATTTATTACCACACGTACAGTGTGTTTTTTGACAGTAGGGACA  
CAGTTCATGTACCTTGATCTCTAGCAACGAGGGAAAATAAGAAAGATCAAGATTATTGTGTC  
TAAAGAAAACCTGGGAATATATATACTTGACCCGCTTCACTTGCTTACATTGTCTGTCTGATT  
TTCCAAGCATTAATTAGAATTTGCAACTCCTAGCTGGGCACAGTGGCTCATGCCTGTAATTCC  
AGCACTTTGGGAGGCCGAGGCTGGTAGATTACTTGAGGTGAGGAGTTCAAGACAAGCCTGG  
CCAACATGGCAAACCGCATCTCTACTAAAGGTACAATAACCAGCCTAGCATGGTGTGTGTC  
GCCGGTGGTCCCAGCTACTCAGGAGACTAAGGCAGAGAATCGTTTGAATCCAGGAGGCAG  
GGGTTGCAGTGAGCAGAGATCGTGCCATTGCACTCCAGCCTGGGCAACAGAGCAAGACTCT  
GTCTCAAAAAAAAAAAAAAGTCGACGCGGCCGCGAATTTAGTAGTAGTAGGCGGCCGCTCT  
AGAGGATCCAAGCTTACGTACGCGTGCATGCGACGTCATAGCTCTTCTATAGTGTACCTAA  
ANNNNN

&gt;1208

ACGCGGGGATAGTTGAAATGGAGGGCGGGGAAGTCAGGCAGTGGTTTTCTGAAAGC  
CAAGAACCTTAGTAGCACTGTGCCATTCTCTTGCTGATCCAGTGCCATTCCCTTCACTTGATA  
TCTGTTTACTTTAGAGGAGGCAGTTTTTGAGAAAGGATCATAAATATCCTGGCCAGTGCCC  
CAGGAGCTATGACAAGCAAAGGAACATACTTGCTGGAGATAGCCTTTGCGATATTTAAATG  
TCCGTGGATACAGAAATCTCTGCAGGCAAGTTGCTCCAGAGCATATTGCAGGACAAGCCTGT  
AACGAATAGTTAAATTCACGGCATCTGGATTCTAATCCTTTTCCGAAATGGCAGGTGTGAGT  
GCTGTATAAAATATTCTATGTTTACCTTCAACTTCTTGTCTGGCTATGTGGTATCTTGATCC  
TAGCTAGCAATATGGGTACGAGTAAGCAATGACTCTCAAGCAATTTTTGTTCTGAAGATG  
TAGGCTCTAGCTCCTACGTTGCTGTGGACATATTGATTGCTGTAGGTGCCATCATCATGATT  
CTGGGCTTCTGGGATGCTGCGGTGCTATAAACGACAGTCGCTGAATGCTTCATGTACGTAA  
TATCCTAGGCTCGCTTCTGCTCCTGCTCCTGCAGGTGCGAGACAGGTATCCTAGGACCTGA  
AAACAAATCTAAGTCTGATCGCATTGTGAATGAACTCTCTATGAAACGACAACGCTCTGAAG  
CGCCACAGGGGACAGTGACAACCAATTCAGGAACGCCATACACTGAGTCACCAAGGACAC  
AGGTACAACATGCGGCGGAAAACGCGACAACCTGGCGCTGGCTGACTCCGGCGGCACACCA  
ACTCCAACAACCCACTATCCTCGAACATCACTGAGCCAGACCAACCACTACAGCAGGAAAAA  
CAATGCACAACGCCCAATACAAGGCAAAACACAGCAACACCACAGAGACACTGCAAGCAC  
CCATCCCAATACAGAAAACTACCTACGCCACACCACCGCCAAGCCAAAGCACGACAACG  
GCCAACACCCACAGACAGCAACCGGCGACAACACTGGAGAACAAGAGCACACGCAACAA  
GAAAAACCGCGCCAGAAAATGGCCAGAACAGCGAACCCACGAAACAGAACAAAGACACA  
NNNN

&gt;1209

ACGCGGGGGAGGTCTCCATTCACTAGGTGGCCCGGGATGAAGGCCGTGTTGGGGC  
TAAACCACTCTGGAATTCTGTCAGCAAATTCCTCGCTGTGTGAACCTTGAGCAAGCCATT  
ACCTTTCTTAAGCCATTTTCTTGATATTTACAGAGCCTCACCAAGTATTCAACGAGAACATG  
TAAGTGAATGCTTCACAAAATGCCTGGTAAATAATAGATGCTTAGAAAATGGTAGAGAGAGA  
AAAGAGCAGTCTCTGCCCTTAATGTACCTCGGCCGCGACCACGCTAAGG

&gt;1210

&gt;1211

AGCCTGGCTGCCTTGCTCTCCTTACTGGGTCTGTCTCTGCCACCTGGTCTGCCACA  
GATCCATGATGTGCAGTTCTCTGGAGCAGGCGCTGGCTGTGCTGGTCACTACGTTCCACAA  
GTACTCCTGCCAAGAGGGCGACAAGTTCAAGCTGAGTAAGGGGGAAATGAAGGAACTTCTG  
CACAAGGAGCTGCCAGCTTTGTGGGGCATTCCAGAGAACCATGTGCTGTGAGGGCCTTCC

Table 4

GAGTCCATCTGTTAATCCTGTCATTGGAGACTTGAGAAACCAGAGCCCAGAAGGGGAAAAGT  
GATTGTCCCAAGATCACACAGCACTGGAGAAAAGTGGATGAGGAGGGGCTGAAGAAGCTGAT  
GGGCAGCCTGGATGAGAACAGTGACCAGCAGGTGGACTTCCAGGAGTATGCTGTTTTCTG  
GCACTCATCACTGTCATGTGCAATGACTTCTTCCAGGGCTGCCAGACCGACCCTGAAGCA  
GAACTCTTGACTTCCCTGCCATGGATCTCTTGGGCCCAGGACTGTTGATGCCTTTGAGTTTTG  
TATTCAATAAACTTTTTTGTCTGTTAAAAAATAAAATAAAATGGCGGCCGCCGG  
GCCCCCTTTAATTTTTTAAAAAACCACCCCCCCCCCGGGCCGGGAAAAA  
AAAAAGCCCAGGGGGGGGAAAACTTTTTTGGCCCCCTTAAGGGGGGACAAAAA  
TCCCCCCAAATTTTCAAAAAAAGCTTTTTTCCCCGGCTTTAAGGGGGGGGGGCCCA  
ACCCCAAAGGGGTTTTTAAAGGGGGGGGCCCCCCCGGGCCCCCCCCCAAAATAAATTTT  
TCCCTTTTCAAAAAAACCACCGGCCCNNNNNNNNNNNNNNNNNNNNNNN

&gt;1212

&gt;1213

&gt;1214

NNNACAGATGAAATTGGCGGCAGTTTATTAGTCACAACTGCTCACAGGGAGGGAGG  
TCACCACATGCCATGCGGGGTCACAGGAGAGTTGCATTTGGGAATAGAGTGAACAGTAGG  
GGCTGTGGAAGGCAGGCTTTCAGTAACAAGAGGCGATTCTGGCTCCTCCAGAT  
GTGACAGGCTTGTGTAATAATTTCCAGGCTGGAGGGTTGTCAGCCACGTTGAGACCCAAG  
GAGGGTACCTCGGCCGCGANN

&gt;1215

NNAATNCACCGNGGTGGCGGCCGCTCTAGAACTAGTGGATCCCCGGGCTGCAGG  
CTGTAGTGCTATTCCCTAATGAGCAACTAAGAGAAGACACAACAATAAACCATGGAAGTGT  
GGGAGGCCATGGAAATGATTTAGAGGTATAAAATATCCCAAGTTTTATTATAAATTTTATT  
CATAGGTTAAACATATAAGCATAAGTGATTGTACAGGTGTGACTCCCTTTCTAGGAGAGAA  
AATAGCTTTATTTGAAACTCCAAAAGCTACTTAATCTTACCAGAGGTTTTAATAGGGGAACT  
GGGTTTACTTACAATGAAAGCATATTTTCACTCTGCTATAGAAAAACATATCCCTGCTCATTCA  
GTAAATCTAAGATTGGAATGCTTTCTAGAACTATGCAATATTTGAATAATTTCTAGAAATGCT  
AAGAAACAACCTTTTTTATTTTAAATCATCACTTACAAACGTAGTCTGAGACTGCAAACCTAGTT  
TTCACCTGACTAATCCATCATTATAGATTAGTTACCATTTGCTCTATATAATCTATTGAAGAAA  
CTATTGTTATTCATTTTTGATTAATTTTACTAGCAACAAATTTTTATTTTAGTAGCATTGCATTT  
ACCTTAAATATGTAATAATGAAGTTGTAACAGGATCAAAATATGGAATGGCAATGGTAACCTCT  
GCCTAGAACATAGTTGAATGTCCTTGTTGTCGGTAAGATGCAAAGATCTATACAAATTTTAT  
CATAGGTCAAAATTTTCTAAATATACAAACAGTTTCAACTATTTCTTCTCCCTAAACTAA  
AACCAAAACCAACCAATGAAGAAACCTAACTTCTTTTCTAATAAGTTATACCCAACCTA  
GATAATAGTAGCTTCTAGACATCAATAAAAGATTTTCAATTTTAACTGTCTTTTAAATTTGTA  
TATATGAGTATGGAATTTGTATCTAACTTGAATTTAGATGTTTTAATAATCCAAATACGTT  
CTTCTTTAGCATGTCAAAGTACTAATAGTTAAAAAATTTCTTTAGATCTAAGCATATACATTACT  
TGACTTTTTCAAAGATATCAAAAAATTGATAGCTGCAGAAATGCCATTATTTGATTTTCTAAAA  
AACATTGATTCACTCTTAAATGTGTATTCTTTAAAAAATAGTAAATACCTCAAGAGTGACAGAA  
AACTTTCTTTCTGTTCTGTAATGCTAATTTAACTTTGAGTCTTAGTTTACATGGTCATAGG  
GGTTAAATAAATGTATAACTGTACAATTAATTGTGTTCTTGTGACCTGATGATTTTTGAAAA  
TTTGCTTTTCTCTTTAAGAAATTTAAGTTTTCAAGGGCCGTATTAGTTATCTAAATATTTGGG  
CTAATGTTGACTTATAAATAAATAAAAAATTTAGAAATATATTCATGATGACAATTTTGTACTTA  
CACTGCCTATTCTTTATTTCTTTTTAGTTCAAAGGTGAAATTTTGACCTTTGTATTAACAAAG  
CCTCAAGAAAAGAGAAATCTGCCTTTTAAACATTGGTTTTCTTGCATTTTATGGTGGTGTG  
ATTTTGCCTCAGCAATAATAAACATAAAATATGTTGTTGCATCAAGTTCAAGTTTGTCTGCTGA  
GATTATTTTAAAGAACAGGTTGAAGCCTCTATGCCTAAAAAAGCGTTTATTGTCTGGATACA  
TATAAAGCAAGATATATGGCTACAAATAAGTCTTGCAACCAAAATTGGTATTTAAAAATTTACT  
GCACACTTTGAGATTGCTGCCATTTTTTGGTGCTTTTTGGACCTCGTCATAAAGGGATGTATC  
GTATATTAGGGAAAATTAAGTTACACATTCTACATTAAGTGCCTGTATTATCTACAGGT  
ACAATCAATGGACCAATAGTTCCTAAATAGTAATAAGGCTTACCTTACAAAAGTAATGAAATA  
AACTGATATTTCTTTTCAAAGGCTAACAGCAATTTGTTGCTGAGCTATTAGTTTACATC  
ATAACTACTGTACATCTGATAACATGTAATTAATGTTTTGCTGCAGATTCTGGGTATG  
AGGATTAGCTTGAAAGCAATACATTTGCTAACATGAATCATGACTCACATTATCCCCGTGTGC  
TTTACTACCTGTATATGAATGCAATGTTGTTACAGAAAATATGCTTGAATGTCAATACAGTG

Table 4

TGCAATTAGCGTTGCATTGTCATGCTCCAGCATGTGATATCTGTATGGTGAAGTTATTTCAAT  
TACTCTGATACATTACTATAATAAAAAAGTTTAACNNNNNNNNNNNNNNNNNN

&gt;1216

&gt;1217

NAATTTATTAATAATTTAAAAAATGAAAAAAGCTGCATGCTTGGTTTTTGTGTTTTA  
GTTATTCTACATTGTTGCCATTATTACCAATATTGGGAAAAATACAACCTACAGACCAATCTC  
AGGAGTTAAATGTTACTACGAAGGCAAATGAACTATGCGTAATGAACCTGGTAGGCATTATTT  
ATTGAATTATCAGCATTCCAGATGTCCAGCACATTTTAAATAGGAAAGTATTGGGAACAGATG  
TCATTATTTTTCAGCCTAGGTTTTAGAACATTTTAGTATGTCATGAATTATCTTCAAAGGATCA  
TAAATCTTTTTTAAAGGTCCATTTTATTTAAAATATATAAAAAATCACTGCACTGCAACCTG  
GGTGACAGAGAGTCTGNN

&gt;1218

NNACAATGTTAAATATCTGACTTTTTCTATGATTTGGCTTTTCTGCCTTGAGTAACTATT  
TAAATATCTGCGTGATCTTCTTTTATTTGGGCTACTTCTAGAACAAAACAGAGGTATTTACAAC  
AAACCACTTCCCACAGGGCCTTTGAACCGTTTACCTAAGTCAAGTGTAATGAAAAACATAACC  
AAATGCACCATGGGGTTTATTGTTAGATAATAAAAGGCTTAAAAAGCCCCTAGACCCTAAAGA  
TGCCTGGGATGGATGATTGATGCTCATATGCTACTTGAGCATGTA

&gt;1219

ACCTTTTTTTTTTTTTTTTTTTTTCGTCAAAGTCACTATTTGGGCCCTAACATAATCCCT  
GCTCAGAGCGACGGAAAAAAGGCAAGCCTTTCAAACATAACTCTCTCTACAAGCCAGCTAT  
TATGGCAAGGAAAAAAGAAAGCATCTAGATAAATATCTATCAAAATTAACCTTTAAGAGAAAT  
ACTCTCTTTTCTTAAAAAGCCCTTATTTTTTAAGACACTAGAAAAATAAGTTACTATAAAAAAGTG  
TGGTCTGGGGGCTAAAAACAAAACAAAAAATCCTCTTTTCTACATTTTTTAGTTTTCTG

&gt;1220

ACAGAATTATCAACTGATTTGGTCAGTTGCTTCCAATGCTGGTTGATTTCCCTCATTG  
TGTAACATTGACAGGTATGTGACAAATGGGAAAAAATCCAAATAATAAAGTGACATATTG  
GTGTTTCATNN  
ACTTAATAAAAAAACTGAGTTTTATTTACATGTATTTTGTGGNTCCCCACCTTTCCATGTT  
TGACCACCGCTACTACTTAGTCCTATCATAACATTCCATACATACTTAAAANN

&gt;1221

&gt;1222

&gt;1223

ACACTGAACAATTTGTTAAGATAGATCTCACCTTGTGTTCTTACTGAAAAAAG  
AAAGAAAATAGAACAGAAAAGCAATTGGATTTTAATTCTGGAACTCCTTTCTCTTCTTACAT  
CCAGGAAATTTGCTGTTTATTTTGAAAAGCAATTTTAAACCTATTTAAGGGAGAGAGAGCTCT  
TGTAATAATTCATTTATTAGTTCTGGACCAATGTTATTTATAAGCTATTATTTCAAATGATAAAA  
AATAAATGCATAATACATTTGATGATAGAACATTTTCTTTTTAAATAAGGCCTGATTTTTCAAA  
AAGCATTGAATATGTTTGTTTCTAATTTCCAAAGCTTGACAGTTTCTTATGTTTCATTAAGC  
AGAAGAATTGTTATGTATGCATGTTTATATCACTTTTGAATGACTCATGTGGCTACAAATGCA  
GCAATCTGTGGTTATCATGGACCATGAAGTAGATAAACATTCCTGCTTTTCTTAACATTCTTT  
CCTGTGCCTCATTAATAATGTACATAATAAACATCTTTATTTTCATANNNNNNNNNNNNNNNN

&gt;1224

&gt;1225

CCACGCGTCCGGCTGTTATCACAGTCTTTTGGGAAGTAATTCCTTAGTTAGGTAATGC  
ATGATTCTTGCAAAATTAATTTTATTTGGAAAGTTCAGTAACAGCCTTATGGCTTCCATGCTAT  
AATCAAAGGGATGTATTTGATTCAGTTAAGATAGAATCTGTGTTTCTATTTCTTTTATTTTCTCT  
TATTAGAAAAGTAATGCTCTGTATAGAACTAGAAAGAAAATTAATAATCATCTAGTCCCCACCT  
ACCAGACAACCAGCTTTGATGTACATCATTTGATGTATGTTTTTGTGTTTTTAAACATAAAAGGA  
TTATATCCTTTTCCGCCAGCTGTTTTCACTCAATACATTGTGAAAATATTTTACATATGTTGC  
ATGGGTTTTCTATAACATTTGAAATGACTGCCAAATATTTCACTGTATGATCATCATTTAATATT  
ATTATCAATTTTGTATATTTAAGTTAGAATTTTCCATTACCATAAACATCATTATGAATGAGCT  
TTCTTGAAGTGTATTTAATACTTCTTAGGATAAATGCTTAAAGTAATAATTATTGAATTGC  
TTTCCAAAACATTGCACTCCATCCAATTGTTTTGGAATACCCTTTACCATATAN

&gt;1226

&gt;1227

&gt;1228



Table 4

&gt;1229

NNATACCACCTTCCTAATAGTATTATGACTTCTTATTTAAAATAAATAACAATTGCCGG  
TTTTCTGTTAATCAGTTTTCTTAAAGCCAGTGTTCACCTATAGTGTATGCATCAGTGTGAATTG  
TGACTTAGGAAGGGACACCTCAACAGTTCACAAAGTACCAGAATTCAAGGAGGAATGCAGA  
GAGAAATAGAAGGAAGCTGCTCCATTTTTCATCATCTACGCATCTATTTGGAAAGCACTGGAA  
TTCAGATGCAAGAGAACAATGTTTCTTCAGTGGCAAATGTAGCCCTGCATCCTCCAGTGTTA  
CCTGGTGTAGATTTTTTTCTGTG

&gt;1230

&gt;1231

ACTCCATAATATAATCTTTTAAATGGGCAACTTCTAAATATTGATACAACCATTAATAA  
TAATGCTTATAGGGTAAAAGAAAATTTTTGAAGCACTGAATTCAGTAACCTGGGTCATGGTCC  
AATTTTGCTCACTACTTCATATCTTTTATGTAGATTATTCCTATAAACATGTTCCCTAAATTCCA  
CATCAGTTTGTAAGTCAATGGATTAAATTATTCAAATGTAGCTATTTAACGGTCAGTAACAAT  
GCCTAGAAACCTATTTATTCATCTGTAATATTAAGCTGAATTTGATGATCTTGAAAAATCC  
TTCCAGATTTACAACNNNNN

&gt;1232

&gt;1233

ACTCCATAATATAATCTTTTAAATGGGCAACTTCTAAATATTGATACAACCATTAATAA  
TAATGCTTATAGGGTAAAAGAAAATTTTTGAAGCACTGAATTCAGTAACCTGGGTCATGGTCC  
AATTTTGCTCACTACTTCATATCTTTTATGTAGATTATTCCTATAAACATGTTCCCTAAATTCCA  
CATCAGTTTGTAAGTCAATGGATTAAATTATTCAAATGTAGCTATTTAACGGTCAGTAACAAT  
GCCTAGAAACCTATTTATTCATCTGTAATATTAAGCTGAATTTGATGATCTTGAAAAATCC  
TTCCAGATTTACAACNNNNN

&gt;1234

&gt;1235

NATGTAGAGAGGGAGTTTCACCATGTTNCCCAGGNTGGTCTCAAGCCTGGTTTCCT  
GGGCTCGAGCAGTCTNCTGCCTCAGCCACCCAAAGTACTGGGATTACAGGCATGAGCACCC  
AACCCATCCTACTCTGTGTATTTCAAAAATATTTTTCTGCCCTCTTTTTGGGAAATAATAAT  
TACTGCTTCTAACAGTTATGTAACAGAGTGTACATATCATGCCTTACAAATCTTTGCTGTAAAC  
TGTAGCATCCAAAGATGATAGGGTGAGTACTCTGTAAGTCTGGAAGAACAGGTCACATTTAT  
TCAGACTCTCCCCACAATTTTTAATCAAGCACCTCCCAGTAACAAGTTATTTAATTAGATC  
GATTTTAAGTTGACAACAGATGTATCAGATGAGGAAAAAATTGAGCATGTGTGGTGTGATTAT  
ATAATAGAATTGGTTTCTATAAACCATTTATAGTATTCAACTTTTATAGTATTACTTTTTAGAT  
GTATGGATATATAGACTATTATTTACTAATTGAGGCTCTGCGAAGTGTAGTGTATTTACAAAC  
ATAATTAATACTATCATTTAATATGCCTGATACTAACATATATTAATATATTTTAGCATGGTT  
CAAAAATTTAATTAGGAATTTTTGCCTTTTATTATATCAGAAAGTATATTTGCAGTCAGGCC  
TCCAATAATCATTATGAATCTTGAGTTGGTCTGAACTTGGAGTGTTAAATTTGAATTTGC  
CANNNN

&gt;1236

NNNCGGATCTATGATAGAGTAGAATAAACCTCTTTCGTCTACAAGCCACACTTATC  
CAAAATTCTGTTGACAACTCACACTTGCTATTATACCTGCTTCTATTCTCCTAGTTAGTCCCTG  
TGGGTTTATACCTTTTTATTCTTTTATTGTTATTTTAAATGAGGTTTCTGTAGGAAGCAGAGTTA  
AATGCCTATGTTTACTCCATCATGGTTATCTGTAAGTCTGAGGTGAATTTCAAAAACACGA  
CATGATCAACAAGAAGGGTACTCCTAAAGAAAAAGGAACAGTTAGAGAAAAAGTACAGGGG  
AATGAAAGAGCATGGTATAAATAAGTAACAGGAAGTATTTGCAGTAGAAGAACCTCAGTGAA  
GTGGCCTGAGCACTAGGGCAAAACAAGCCAGAGTGTGAATCCAGGCTCTGCTATTTAGTCG  
TCATATGACCCAGGATATGTTTCTCTCTGAGGCATCTCACTGCTGGGCATGCACACTTC  
CACTCCCTCCCTGTTTTACN

&gt;1237

CCCCTCGCCCGTCACGCACCGCACGTTCTGTGGGGAACCTGGCGCGCGTGCGGGCG  
GCTGGGCACCGCCATTTTGGCCGTGGCCGTGAGAACACGCTGTGTGGCTGAAAAGTGAA  
GGCAAGAGCTGATTTGGCCTCTGTGCTCCCTCCGCAAGGGGATCGTTTTCTCCAGAAGAG  
CTGGATATTCTTTGCCCCAGTTATGGCAGACAAGTTAACGAGAATTGCTATTGTCAACCATGA  
CAAATGTAAACCTAAGAAATGTCGACAGGAATGCAAAAAGAGTTGTCCTGTAGTTTCAATGG  
GAAAATTATGCATAGAGGTTACACCCAGAGCAAAATAGCATGGATTTCCGAAACTCTTTGTA  
TTGGTTGTGGTATCTGTATTAAGAAATGCCCTTTGGCGCCTTATCAATTGTCAATCTACCAA

Table 4

GCAACTTGGAAAAAGAAACACACATCGATATTGTGCCAATGCCTTCAAACCTTCACAGGTTG  
CCTATCCCTCGTCCAGGTGAAGTTTTGGGATTAGTTGGAACATAATGGTATTGGAAAGTCAAC  
TGCTTTAAAAATTTAGCAGGAAAAACAAAGCCAAACCTTGGAAAGTACGATGATCCTCCTGA  
CTGGCAGGAGATTTTGAATTTTCCGTGGATCTGAATTACAAAATTACTTTACAAAGATTCTA  
GAAGATGACCTAAAAGCCATCATCAAACCTCAATATGTAGACCAGATTCCCTAAGGCTGCAAA  
GGGACAGTGGGATCTATTTTGGACCGAAAAGATGAAACAAAGACACAGGCAATTGTATGTC  
AGCAGCTTGATTTAACCACCTAAAAGAACGAAATGTTGAAGATCTTTCAGGAGGAGAGTTG  
CAGAGATTTGCTTGTGCTGCTGCTTTCATACAGAAAGCTGATATTTTCTGTTTGTATGAGCCT  
TCTAGTTACCTAGATGTCAAGCAGCGTTTAAAGGCTGCTATTACTATACGATCTCTAATAAT  
CCAGATAGATATATCATTGTGGTGAACATGATCTAAGTGTATTAGACTATCTCTCCGACTTC  
ATCTGCTGTTTATATGGTGTACCAAGCGCCTATGGAGTTGTCACTATGCCTTTTAGTGTAAAG  
GAAGGCATAAACATTTTTTTGGATGGCTATGTTCCAACAGAAAACCTTGAGATTGAGAGATGCA  
TCACTTGTTTTTAAAGTGGCTGAGACAGCAAATGAAGAAGAAGTTAAAAAGATGTGTATGTAT  
AAATATCCAGGAATGAAGAAAAAATGGGAGAATTTGAGCTAGCAATTGTAGCTGGAGAGTT  
TACAGATTCTGAAATTTATGGTGTATGCTGGGGGAAAAATGGAACGGGTAAAACGACATTTATCA  
GAATGCTTGCTGGAAGACTTAAACCTGATGAAGGAGGAGAAGTACCAGTTCTAAATGTCAGT  
TATAAGCCACAGAAAATTAGTCCCAAATCAACTGGAAGTGTTCGCCAGTTACTACATGAAAAG  
ATAAGAGATGCTTATACTACCCACAATTTGTGACCGATGTAATGAAGCCTCTGCAAATTGAA  
AACATCATTGATCAAGAGGTGCAGACATTATCTGGTGGTGAACACAGCGAGTAGCTTTAGC  
CCTTTGCTTGGGCAAACCTGCTGATGTCTATTTAATTGATGAACCATCTGCATATTTGGATTCT  
TGAGCAAAGACTGATGGCAGCTCGAGTTGTCAAACGTTTCATACTCCATGCAAAAAAGACAG  
CCTTTGTTGTGGAACATGACTTCATCATGGCCACCTATCTAGCGGATCGCGTCATCGTTTTT  
GATGGTGTTCATCTAAGAACACAGTTGCAAACAGTCTCTCAAACCTTTTGGCTGGCATGAA  
TAAATTTTTGTCTCAGCTTGAAATTACATTCAGAAGAGATCCAAACAATATAGGCCACGAAT  
AAACAACCTTAATTCAATTAAGGATGTAGAACAAGAGAGTGGAAACTACTTTTTCTTGGA  
TGATTAGACTGACTCTGAGAATATTGATAAGCCATTTATTTAAAGGAGTATTTACTAGAATTT  
TTGTCAATAAACTTGAATCAGGATTTTATGCCCCACATACTCTGGAACCTTGAAGTATAATAT  
ACTTAATATAACATAAAAAGCCAGTTGGGTTCTAAATTGTAGTTGAAACACAGAAAATGCCAC  
TTTTCTGTTCTGAAGAGGCTCTTTTGTGCATAATATTCTAAATGAAGACATTTCAAGCTATA  
CAAATTACTTCCAAGTTTTCATGATGTATGGGAAGATTTTCAGTAGGTGATTATATTCACGGT  
ACCAAATGCTGACCAGTGTTGCTCCATTTTTTAAATCTTGAAAAGGGTTTCTGTACTTACCTG  
GTTGCCAAGTATGCCAGTGTAATGAAACTGCCCTTATTTTAAAGCCAGTCAAAGATTCCAC  
TGATTGACATTTGATAAATAAACATCAGGATTATGTTTATTGTTTGTTCAGTCTTTCAGTAT  
ATTACCAGTATATGGTTTCCGAGGAAGATTATCTACTGCAAAACACCACTGTTGGAAAAATAG  
GTATTTTTAAATTTGTTTTTAAATCTTTTTTGGTGTCTTTTAAACATGTTTAGCAAAAACCAATTCAG  
TTCCATTCCCCGCAAAAAACCCCTAACTTTACTCTGAACTTTTTTTGTTCATTCCATGAG  
GTTCTGTATTGAGTCATTCTAGGTAATGTCATTTTTGTACACATATATTTATATAATCACTGA  
TTGAGATTTAGGAAAAAGCATTCTAAAGAATATTTGCTTCCCTTAGAACTACAGACTCGAAA  
TCTTTAAAGATGGTGCCTAAGCATCTATGTATTTTTTTAAGTCCACAGATTTTTCTGTTGGG  
CAGCCAAGGATTATAAACCACTTCCCTAAAGGCAACATTAATGCAAAAGTCCCCAGATGGCA  
ATACAAAGTATCCCCTGGTACCACATATATTCATTTGTGAGTTTGGATATAGAGCACATTATC  
TAAACCATTTGTAGTTCCAAAAACCCATCTAAATTTCTTGAGTTCTGAAATTTTGAACAGGAT  
TACCTGGAGCCTGGAGCCACTTTAAGTTGTACTTCTGACTAAACTGGAATTATGAGTGAGGA  
AGAGTGTCTACTAAATAAATGACTGGGGCAAGCAAAATTGAGGAGGAAATTAGAACTGTTT  
GACAACTTTAAGAGCTACTTGAAATAACAGAAAGTCTTGATTAATATGCAATAATGGCTAGA  
AAGTATGGTTTAACTGGACCCTATTATGCCTTTTAAAAATAATTTGAGTAACCCATAAATACAT  
GTTGTAAAAAATTCAAATATACAGAATGGAATAAAAAAATGATCTCCCTTTATTACCTCCCAA  
AGGTTACCAGCGTTTGAATTTAATAATGTATATTTCTTCATGCTTTTTCTGTGCACTTACCTA  
AGTGTGAATATGTAAAGGGTTTGTTCGTATACAAATGGGATTATACTAAAATAAGTAATGCCT  
ATTTTTAAGGATAGGTTAAATTTGTGAATGATCATTTCAAATATATTGAATAAAAAAAGCAAAA  
GCTATTGTTATTTACTGATCCTGGATTGTCTTAAAGAAAGTACTTGTGATATAAGAGCACAGT  
TCTACTTACTGCTAATGACAGAATATGTATTAACCGTATTTTCTGTAATGAAATCTTTAAAT  
ATGTATCTTAAATTTTACATAGCAACAGAAAGCCCTACAATTGCTAACACAAGAAAAATCTT  
ATAAATCAGTATAAATCAATGCAGATGTTAGCAAAAGAAAGTACTACTTCTATATGTCCTA  
ATTGAAAAAGTCTCAAATACTTAAAAAACAACAAAACTGGAACAGTTTATTATACTACCATT

910  
**Table 4**

[illegible]

Table 4

AACCTCTCTTCCCTCAACGGAGAGCTGCATTCTCTGGGAATTTCTGTTGTGCACTTTTCCCACT  
TGCCCTGCTGTCATTTAAAGGTGAACATTCTAGTTTTGCTAAGAAAACCTTTCTTTCATTTG  
GAATGAACAGCAATTTTATTACTTTTGACCTTAAATGAGTTTGCTGCCCTTCAAATCTTTTCAG  
CGCCTTCATCACGCTCTGCTTCGGGGCGATCTTCTTCTGCCAGACTCCTCCAAGCTGCTCA  
GCGGGGTCTGTTCCACTCCAGCCCCGCTTGACGCCGGCCGCCGACCACAAGCCCCGGGC  
CCGGGGCGCGCGCCGAGGACGCGGCCGAGGGGCGAGCCCCGGCGCCGCGAGGAGGGGG  
CACCCGGGGACCCGGAGGCCGCCCTGGAGGACAACTTGCCAGGATCCGCGAAAACCAC  
GAGCGGGCTCTCAGGGAAGCCAAGGAGACCCTGCAGAAGCTGCCGAGGAGATCCAAAGA  
GACATCCTACTGGAGAAGAAGAAGGTGGCCCAGGACCAGCTGCGTGACAAGGCGCCGTTT  
AGAGGCCTGCCCCCGGTGGACTTCGTGCCCCCAATCGGGGTGGAGAGCCGGGAGCCCCG  
CGACGCCGCCATCCGCGAGAAAAGGGCAAAGATCAAAGAGATGATGAAACATGCTTGGAAT  
AATTATAAAGGTTATGCCTGGGGATTAATGAACCTATATCAAAGGAGGCCATTCA  
AGCAGTTTTGTTGGTAACATCAAAGGAGCAACTATAGTAGATGCCCTGGATACACTTTTTATT  
ATGGAAATGAAACATGAATTTGAAGAAGCAAAATCATGGGTTGAAGAAAATTTAGATTTTAA  
GTGAATGCTGAAATTTCTGTCTTTGAAGTAAATATACGCTTTGTTGGTGGACTACTCTCAGCC  
TACTATCTGTCTGGAGAAGAGATTTTTCGAAAGAAAGCAGTGGAACCTTGGGGTAAAATTGCT  
ACCTGCATTTTCACTCCCTCTGGAATACCTTGGGCATTGCTGAATATGAAAAGTGGTATTGG  
AAGGAACCTGGCCCTGGGCCTCTGGAGGCAGCAGTATTCTGGCAGAATTTGGAACCTGGAAT  
TTGGAGTTTATGCACTTGAGCCACTTATCAGGAAACCCCATCTTTGCTGAAAAGGTAATGAAT  
ATTCGAACAGTACTGAACAACTGGAAAAACCACAAGGCCTTTATCCTAACTATCTGAATCCC  
AGTAGTGGACAGTGGGGTCAACATCATGTATCAGTTGGAGGACTTGGAGACAGCTTCTATGA  
GTATTTGCTGAAGGCCTGGTTAATGTCTGACAAGACAGATCTGGAAGCTAAGAAGATGTATT  
TTGATGCTGTTCAGGCTATCGAGACTCATTGATCCGCAAGTCTAGCAGCGGACTAACTTAT  
ATCGCAGAGTGGAAAGGGGGCCTCCTGGAGCACAAGATGGGCCACCTGACCTGCTTCGCT  
GGGGGCATGTTGCGACTCGGGGCTGATGCAGCTCCCGAAGGCATGGCCCAACACTACCTT  
GAACTCGGGGCTGAAATTGCCCGTACTTGTCTGATGAATCATATAATCGAACATTTATGAAACTG  
GGACCAGAAGCTTTCAGATTTGATGGTGGTGTGAAGCCATCGCTACAAGACAAAATGAAAA  
GTACTACATCTTACGGCCAGAAGTTATGGAGACTTACATGTATATGTGGAGACTGACTCATGA  
TCCAAAGTACAGGAAATGGGCCTGGGAAGCCGTAGAGGCCTTGGAAAACCATTTGCAGAGTG  
AATGGAGGCTATTAGGCCTAAGGGATGTTTACCTTCTTCATGAGAGTTATGATGATGTGCA  
GCAGAGTTTCTTCTGCGCAGAGACATTGAAATATTTGTACCTAATATTTCTGACGACGATCT  
TCTTCCACTGGAGCATTGGATCTTCAATAGCGAGGCACATCTTCTCCCTATCCTCCCTAAAG  
ATAAAAAGGAAGTTGAAATCAGAGAGGAATAAAAAGACATTTTATATTTTATCTGCTCCATT  
CCTTCACTGTATACCTTAATAATTCTTTTCTGGTAATCAGGCACATGATGAACCTTGTAGT  
AGGTCTGTGATTAAGTTCTTAAATTGTTTTGCAGTCTTTTATGTTTATTATCATAGGTATAGGT  
GGACCTAAATTCCTTATCATATCCTTTATTAATTCAGCCAGTGTATCCACCAGTTTTTTGTTTA  
TGTTTTAAGTAACCTATTATCTCTGGATTTTCATGAAGGTGTAATATCGTTTTTGTAACTGA  
ATAGAATTGTATAGCGATGACCTCTTAATTAATTTGATTTGACTGCAAAACTTTTCTCCT  
CTAAGAGGAGATGATGTCTGCTTTAAGCTGTAATGTTTTGCCATGTTGCAAAAAGCCATAATA  
ATAAGTATAAAAAAGCTTTTCTTTTACAATTTTCATGTTAATCTGGTTTGTCTGTCCACCAGAG  
ACAGATCTTCTGTGACAGCCTCCTTATGCAGGTCTATCATTATTTGATAGAATGTCTTCTAAA  
ATACTTCACTCACATTGTAATTCAAATTAGAAAGTCATTCCAAAAGGATCATGTCATGTTGACC  
TCATTTTCATCGGAAGTGCAGTATATTTTGTGGTTAATTATATTAGTGTCTTCTATTTGTAAA  
TGTGTCTTTTAAATTTTACTTTAAATGCCCTGTGTCTATTCTGGATTATATACTAGTTAATTTCT  
CCATTCCCTACTACACAGAGAGGTGAGCTTTCAAATTTTGCAGAGCTCTGCTATCACTGAATT  
ACATTTATCTGAAGAAAATAGTACAACCTTAATGGATTAGCTTTTGGGTTTAACTGAATATATGA  
AGAAATTGGGTCTGTCTAAAGAGAGGGTATTTTCATATGGCTTTTAGTTCACTTGTTTGTATTT  
CATCTTGATTTTTTTCTTTGGAAAATAAAGCATTCTATTTGGTTGAGATTTCTCAGATTTGAAAA  
AGGCTCTATCTCAGATGTAGTAAATTTTCTTTTCACTTTGTGAAAGCAGGATTTTGACTCTG  
AAAGAAGCTTTGCCAATTTTACTTATTCGTGATCAATCAAGGAAAATCTAATAAATTTTAGGCC  
AAATAAGAATATAGCATATTTAGTATGGTTATAGTCAACACAGAGATCACAACCTTAGAAGAAA  
TATAAAGAAATGGCCACTCCCCATCCCCACAGTCCCTGGAGTAAATCAAATCAATATATGAT  
TCTTTTAAACATTAAAGTTTGAATAGGAATGGTTTTCTCAAGAATAGATTTGGTGTGATACCTT  
GTGTTTGCTTACATTGGCCCACTATATACATATATATTTATGTAGATATACTTCCATGAAAG  
GGCTAATACGATGCATATACTGAAGGGCAAGGACTTTGACCATGTCAATTTTCAGCCGAGAA  
TGGTCAGAAAGATCAGTACAACCCCATGGATTAGGCTGAAACATATGAAATTGCTGCATTTG

Table 4

TAGTTTAAAACTGTCAGCAGTTTCATATGGTTCCACCTAATATTATTGAAGACAATTATTTTC  
TTAGCTATCAATAGGCTTAATAGTTTTAGTTATTTTAGCTTTTGAAAGTGTTTTAAAGATTTCC  
TTTATCGGACAGGACCATCTTTATGACCTGCTTTCTGTTTTCAATATCATACATTGGTGTATG  
TCAAAGAATAAATTAGTAAATTAGTAAATGAAAAAGACTCTTCCGTACATCATTATTTCCATG  
CTAATGTGTGTCTGTGATCCAGAATAACTTCTCCCACTCATATCTTCAGTTCACCTAATGAAA  
TGAATGGATAGCAAGAGCCCTTTGTTCCAGGACTTTAAGGCAAAATATTAATAATTATTGCC  
AAAATTAAGAATAAATGTTTGTATAAATGTCCTTGAATTTGCCATTTAAATTAACCTATTTTCT  
TTTCACTTTGATTTGAAAGCTGATAAGTATTTCTGCAGCAGATAGAATATTAATAATCAGGTTGT  
GTGTACACACTGCACTATGAGGTACCTTGGTGTCTGGTGTGAATAGACAAGAAGCTGTACT  
ATATGTTGCTCTCTCAGTGGCAACAATGAAGTTTTTGCAATTCTAGAAGCTTGGATTTTTTTTA  
ACAAAAGTCCCAAAACACCAAAAATGTAACAAGATAAGAGATTAATATTGTAGTGATGTAAT  
TTAATTAAGTTATATTTTGGTTAATTTTAACTGAAGTCTTATTGTTGAAACTTATTTTCA  
ACAAAAGTGTGCAGTTAAATTTGTATACGTATTCACATACTGAAAGATGAACCGTTAAAATAG  
CACTTAATTTTGTGTTTCTTCAATATGTCTTGATATACTTTGTGCAATTAATATTACACATGTAA  
GTTGTATGGCAGTTTACAGAACTCAATGACTTGTCTATGAGGTTTTCATATGAGCTACACATTG  
TGTACATTGATTTGTTTTTATTTTACATAAATCCATTCTGTCAATTTCACTTTATATATAAATC  
TCCAATGTTATGGGAAACAATAGATTGACACATAATTTTTAAAAATTATATTGTAAAATTTCTC  
TATTGTGAATAAAGTCTTTAATATATCTCCAAAAAACCCTCCACCTTACTACCAGACA  
ACCTTAGCCAAACCATTTACCCAAATAAAGTATAGGCGATAGAAATTGAGACCTGTCGCAATA  
GATATAGTACCGCAAGGGAAAGATGAAAAATTAACCAAGCATAATATAGCAAGGACTAAC  
CCCTATACCTTCTGCATAATGAATTAAGTAACTAGAAATACTTTGCAAGGAGAGCCAAAGCTAAGA  
CCCCGAAACAGACGAGCTACCTAAGAACAGCTGAGCACACCCGTCTATGTAGCANAATA  
GTGGGAAGATTTATAGGTAGAGGCGACAAACCTACCGAGCCTGGTGATAGCTGGTTGTCCA  
AGATAGAATTTTGTCCNNNNNNNNNN

&gt;1250

&gt;1251

&gt;1252

&gt;1253

TATAGGGAGTCGACCACGCGTCCGTAATTTTCATCGTGTATGTCACGGGCTATTTTCAT  
GATTTTCATGTACCACATCGTATATTTCCCCTTGAAGATTCTGAATTAAGGAATTCTATAATAA  
CTTCAGATAGCCTACATGTCCCATTTAGTGGAGACCTCTTGAATGCTATTTGAATTCGTGAG  
TATCATTTTTATGACCATTTCTCTTTGAGGAATACTATGCCAGGTACATGCTCTATCAGTGT  
GCCGGGAGAGTGGATTCTTTTCTCAGTGCAGAGTCATCACACTGTTGGAATAGTGTGCTCT  
TTTACATGCTCAGGTAGGGAAAATAGGACCAAAATATATTTCCACAGTGCCTACCACTGTGTCA  
TGTTTACAGTGAGAGTTTAAATATTGTTGATGTCTGACTCTGTGAGCTCATAGGGAGTATCT  
TCATAGTAATGACATTTGATCAGCCATAAAATTTACATTATGTTTCATATGCACCCAAAAAAGCT  
AGTCAGGTAATGAATACCCTTGAAGTGAATAGCAATTTGATTTAGGCAGTGTGTTAGGCCAT  
CCTTGCATTGCTATAAAGAAATATTTAGGCTGGGCGTGGTGGCTCACGCCTGTAATCCAGC  
ACTTTGGGAGGCTGAAGCGTGTGGATCACCTGAGGTGAGGAGTTCAAGACCAGCCTGGCCA  
ACATGGTAAAACCCCATCTCTACNNNNNNNNNNNNNNNNNNNN

&gt;1254

&gt;1255

NNCGCAACCCCAATACCCCCATCGACNNCCATTGTAGGGAACCGCGCCATAGTG  
TACGCCCGCGGGAGAGCCCGGGACTTCCACTCGTGCGTGAGGCGAGAGGAGCCGGAGAC  
GAGACCAGAGGCCGAACCTCGGGTTCTGACAAGATGGCCGGGCTGCCCGCAGGATCATCA  
AGGAAACCCAGCGTTTGTGTCAGAACCAAGTTCTGGCATCAAAGCCGAACCAAGATGAGAG  
CAACGCCCGTTATTTTCATGTGGTCATTGCTGGCCCTCAGGATTCCCCCTTTGAGGGAGGGA  
CTTTTAACTTGAATATTCTTCCAGAAGAATACCCAATGGCAGCCCCCTAAAGTACGTTTCA  
TGACCAAAATTTATCATCCTAATGTAGACAAGTTGGGAAGAATATGTTTAGATATTTTGAAGA  
TAAGTGGTCCCCAGCACTGCAGATCCGCACAGTTCTGCTATCGATCCAGGCCTTGTTAAGTG  
CTCCCAATCCAGATGATCCATTAGCAAATGATGTAGCGGAGCAGTGGAAGACCAACGAAGC  
CCAAGCCATAGAAACAGCTAGAGCATGGACTAGGCTATATGCCATGAATAATTTAAATTGA  
TACGATCATGAAGTGTGCATCACTTCTCTGTTCTGCCAAGACTTCTCTCTTTGTTGTCAT  
TTAATGGACACAGTCTTAGAAACATTACAGAATAAAAAAGCCAGACATCTTCAGTCTTTGG  
TGATTAAATGCACATTAGCAAATCTATGTCTTGTCTGATTCACTGTCTATAAAGCATGAGCAG  
AGGCTAGAAGTATCATCTGGATTGTTGTGAAACGTTTAAAGCAGTGCCCCCTCCCTGCTTT

### Table 4

**>1256**

**>1257**

**>1258**

**>1259**

**>1260**

Page 320 of 355

Table 4

ACCGGTGAGTTCTAGGCCTAAGGAAAATTGCTAAGTCAGTGTTACTCTCTAGTGATGTTGAG  
AACTAGAGGGGATTTCCAGACCTTTTACTTTTGATGAAAGGTTGTGAAGTGGTGGCTGTGGGT  
CAAATCCATCTCACAGATTTGTTTGGATCACACAGCN  
>1261  
>1262  
ACACTCCATCAAGCCTGGTTCCTAGGATGCTGGACTTCTAGCTTAGTGAGAATGCAG  
TATACTTTTTGAAGAACTTCGTGCAGGAATCCCTCAAATGCTGTAAGTGAAGTGGGTGAGTGA  
AGTTCAAACGACTTTTCTTGAGGGAGTATTTAATCGGACAAGGGAAGTCTTTTCTTTTGG  
GCATTGGCCAACAGGACTGAGAAGCCAGAGAGCTTGCACCTGAGCCATCTCAGCCGTGAGA  
GTAACAGTCCTAGGAAAATAGATGGGGGCTGGGGGTAAGGAAATGTGCTGAAGACAGAGCT  
ATTCTGGATGGATTTTGGTTTGCAAAAATTCTACTTTAAACAATTTTGCCTGTAGCAAGTACA  
TTTTTTTGAATTGGAGTGTAACATTCTGTGTGGCAACAGTTAAAAGCTGTTATAACAATTTG  
CTTGGGTGTGTGTGCATGTGTGTGTGTGTGTGTGTGTGTATACANNNNNNN  
>1263  
>1264  
>1265  
NNNNNNNNNNNNNGCCCGTCCCGGTCCGGAATTCCCGGGTGCACCCACGCGTCCG  
GCCGCTACAATGAGAGCGACAAGCAGATGAAGAAATTCAAAGGATTGAAGAGGTTTTCACTC  
TCTGCTAAAGTGGTAGATGATGAAATTTACTACTTCAGAAAACCAATTGTTCTCAGAAGGAG  
CCATCACCTTTGCTGGAAAAGAAGATCCAGTTGCTAGAAGCTAAATTTGCCGAGTTAGAAGG  
TGGAGATGATGATATTGAAGAGATGGGAGAAGAAGATAGTGAGGTCATTGAACCTCCTTCTC  
TACCTCAGCTTCAGACCCCCCTGGCCAGTGAGCTGGACCTCATGCCCTACACACCCCCACA  
GTCTACCCCAAAGTCTGCCAAAGGCAGTGCAAGAAGGAAGGCTCCAAACGGAAAATCAAC  
ATGAGTGGCTACATCCTGTTGAGCAGTGAGATGAGGGCTGTGATTAAGGCCCAACACCCAG  
ACTACTCTTTCGGGGAGCTCAGCCGCCTGGTGGGGACAGAATGGAGAAATCTTGAGACAGC  
CAAGAAAGCAGAATATGAAGGCATGATGGGTGGCTATCCGCCAGGCCTTCCACCTTTGCAG  
GGCCAGTTGATGGCCTTGTTAGCATGGGCAGCATGCAGCCACTTCACCCTGGGGGGCCT  
CCACCCCAACCATCTTCCGCCAGGTGTGCCTGGCCTCCCGGGCATCCCACCACCGGGTGTG  
ATGAACCAAGGAGTGGCCCCCTATGGTAGGGACTCCAGCACCAGGTGGAAGTCCATATGGAC  
AACAGGTGGGAGTTTTTGGGGCCTCCAGGGCAGCAGGCACCACCTCCATATCCCGGCCAC  
ATCCAGCTGGACCCCCCTGTCATACAGCAGCCAACAACACCCATGTTTGTAGCTCCCCACCA  
AAGACCCAGCGGCTTCTCACTCAGAGGCCTACCTGAAATACATTGAAGGACTCAGTGCGG  
AGTCCAACAGCATTAGCAAGTGGGATCAGACACTGGCAGCTCGAAGACGCGACGTCCATTT  
GTCGAAAGAACAGGAGAGCCGCCTACCCTCTCACTGGCTGAAAAGCAAAGGGGGCCACAC  
CACCATGGCAGATGCCCTCTGGCGCCTTCGAGATTTGATGCTCCGGGACACCTCAACATT  
CGCCAAGCATACAACCTAGAAAATGTTTAATCACATCATTACGTTTCTTTTATATAGAAGCATA  
AAGAGTTGTGGATCAGTAGCCATTTTAGTTACTGGGGGTGGGGGAAGGAACAAAGGAGGA  
TAATTTTTATTGCATTTTACTGTACATCACAAGGCCATTTTTATATACGGACACTTTTAATAAG  
CTATTTCAATTTGTTTGTATATTAAGTTGACTTTATCAAATACACAAAGATTTTTTGCATATG  
TTTCTTTCGTTTAAACCAGTTTCATAATTGGTTGTATATGTAGACTTGGAGTTTTATCTTTTAT  
CTTGTGTCATGGAACCTGAAACCATTAGAGGTTTTGTCTTGGCTTGGGGTTTTTGTCTTCTT  
GGTTTTGGGTTTTTTTATATATATATATAAAAAGAACAAAATGAAAAAAAACACACACACAAG  
AGTTTACAGATTAGTTTAAATTGATAATGAAATGTGAAGTTTGTCTAGTTTACATCTTAGAGA  
GGGGAGTATACTTGTGTTTGTTCATGTGCCTGAATATCTTAAGCCACTTTCTGAAAAGCTG  
TTTCTTACAGATGAAGTGCTTTCTTTGAAAGGTGGTTATTTAGGTTTTAGATGTTTAAAGACA  
CAGCACATTTGCTCTATTAAGTCAAGAGGCTCACTACAGAAATATGTAATCAGTGCTGTGCATC  
TGCTGCAGCTAATGTACCTCCTGGACACCAGGAGGGGAAAAAGCACTTTTTCAATTGTGCT  
GAGTTAGACATCTGTGAGTTAGACTATGGTGTGAGTGATTTTTGCAGAACACGTGCACAACC  
CTGAGGTATGTTTAACTAGGCAGGTACGTTTAAAGGATATTTTGTCTATTTATAATGAATTCA  
CAATTTATGCCTATAAATTTAGATGATTTAAATTTTAAACCTGTTACATTGAAAAACATTGAA  
GTTTCGTCTTGAAGAAAGCATTAAAGGTATGCATGGAGGTGATTTATTTTAAACATAACACCTA  
ACCTAACATGGGTAAAGAGAGTATGGAAGTATGAGCTGTATAAGAAGCATAATTGTGAA  
CAAGTAGATTGATTGCCTTCATATACAAGTATGTTTTAGTATTCCTTATTTCTTATTATCAGT  
GTATTTTTCTTTTAAAGTTTCAATGTTGTATTAATTCTCAACCAGAAATTTAATACTTTCTAAAA  
TATTTTTTAAATTTAGCTTGTGCTTTTGAATTACAGGAGAAGGGAATCATAATTTAATAAAACG  
CTTACTAGAAAGACCATTACAGATCCCAAACACTTGGGTTTTGGTGACCCTGTCTTCTTATAT

Table 4

GACCCTACAATAAACATTTGAAGGCAGCATAGGATGGCAGACAGTAGGAACATTGTTTCACT  
TGGCGGCATGTTTTGAAACCTGCTTTATAGTAACTGGGTGATTGCCATTGTGGTAGAGCTT  
CCACTGCTGTTTATAATCTGAGAGAGTTAATCTCAGAGGATGCTTTTTTCTTTTAACTCTGCTA  
TGAATCAGTACCCAGATGTTTAATTACTGTACTTATTAATCATGAGGGCAAAGAGTGTAGA  
ATGGAAAAAGTCTCTTGATCTAGATACTTTAAATATGGGAGGCCCTTTAACTTAATTGCCTT  
TAGTCAACCACTGGATTTGAATTTGCATCAAGTATTTTAAATAATTGAATTTAAAAAATGT  
ATTGCAGTAGTGTGTACGTACCTTATTGTTAAAGTGAGTCAGATAAATCTTCAATTCCTGGCT  
ATTTGGGCAATTGAATCATCATGGACTGTATAATGCAATCAGATTATTTGTTTCTAGACATCC  
TTGAATTACACCAAAGAACATGAAATTTAGTTGTGGTTAAATTTTATTTATTTTATTCATGCATTCA  
TTTTATTTCCCTTAAGGTCTGGATGAGACTTCTTTGGGGAGCCTCTAAAAAATTTTCACTG  
GGGGCCACGTGGGTCTATTAGAAGCCAGAGCTCTCCTCCAGGCTCCTCCCAGTGCCTAGAG  
GTGCTATAGGAAACATAGATCCAGCCAGGGGCTTCCCTAAAGCAGTGCAGCACCGGCCAG  
GGCATCACTAGACAGGCCCTAATTAAGTTTTTTTTAAAAAGCCTGTGTATTTATTTTAGAATCA  
TGTTTTCTGTATATTAACCTTGGGGGATATCGTTAATTTAGGATATAAGATTTGAGGTGAGC  
CATCTTCAAAAAAGAAAAAATTGACTCAAGAAAGTACAAGTAACTATACACCTTTTTTTC  
ATAAGTTTTAGGAACTGTAGTAATGTGGCTTAGAAAGTATAATGGCCTAAATGTTTTCAAAAT  
GTAAGTTCCTGTGGAGAAGAATTGTTTATTTGCAAACGGGGGACTGAGGGGAACCTGTA  
GGTTTAAAAACAGTATGTTTGTGAGCCAACTGATTTAAAAGGCCTTTAACTGTTTGGTTGTTG  
TTTTTTTTTAAAGCCACTCTCCCCTTCTATGAGGAAGAATTGAGAGGGGCACCTATTTCTGT  
AAAATCCCCAAATTTGGTGTTGATGATTTTGAGCTTGAATGTTTTCATACCTGATTAACCTTGG  
TTTATTTCTAATTTCTGTATCATATCATCTGAGGTTTACGTGGTAACTAGTCTTATAACATGTAT  
GTATCTTTTTTTTTGTTGTTTCTCTAAAGCTTTTTAATCCAAATAAATACAGAGTTTGCAAAGTG  
ATTTGGATTAAACAAAAAAGAAAAAAGAAAAAAGAAAAAAGAAAAAAGAAAAAAG  
GGCGGCCGCTTCTAGAGGATCGGAGATTAC

&gt;1266

&gt;1267

&gt;1268

&gt;1269

&gt;1270

&gt;1271

NATCCCGGTTCTTGTCTGCAAAATTATGAAAGTCATTCTTAAGGAGGTACAATTTTATG  
TCAAGGGATGTTGATACTCTTTAAGTTCACTGCCAGGCCTACCACTTATCTCTGTCGCAGGA  
GGAGAGTTCTGTAAATGAGAGGTTTTTAAAGACGTCCTTTGTTCTGGGATGAATCAGAGGGAA  
TGAATGCCCTGGAGCTCAGGATATTAACCTGAGTGGTGTCAAATATTCCCAGGATCAAATCG  
ACAATGCCATGTGTACCATCTCCTCCTACAGGGATTAAAGGCCTGACATTTAGATATGATTCT  
AGTTTTCTCTCAAATCCATACTTTAAGAGCTTATGGGCTGGGTGCGGTGGCTCACACCTGTA  
ATCCCAGCACTTGGGGAAGCCAAGGTGGGCAGATAAGTAGAGGCCAGGAGTTTCGAGACCA  
GCCTAGACAAANNNNNNNN

&gt;1272

ACGCGGGGGGTCGGGCTGAGACACGCGGAGCAATGGCGACCTTTGTGAGCGAGC  
TGGAGGCGGCCAAGAAGAACTTAAGCGAGGCCCTGGGGGACAACGTGAAACAATACTGGG  
CTAACCTAAAGCTGTGGTTCAAGCAGAAGATCAGCAAAGAGGAGTTTGACCTTGAAGCTCAT  
AGACTTCTCACACAGGATAATGTCCATTCTACAATGATTTCTCCTGGCCATTCTCACGCGT  
TGTCAGATTTTGGTTTCTACACCAGATGGTGCTGGATCTTTGCCTTGGCCAGGGGGTTCCGC  
AGCAAAACCTGGAAAACCCAAGGGAAAGAAAAAGCTTTCTTCTGTTTCGTACAGAAATTTGATC  
ATAGATTCCAGCCTCAAATCCTCTCTCAGGAGCCCAGCAATTTGTGGCAAAGGATCCCCAA  
GATGATGACGACTTGAACTTTGTTCCACACAATGATGCTTCCCACTCGAGGCCAGCTTGA  
AGGGAGAATGATAGTGACTGCTTATGAGCATGGGCTGGACAATGTCACCGAGGAGGCTGTT  
TCAGCTGTTGTCTATGCTGTGGAGAATCACCTTAAAGATATACTGACGTGAGTTGTGTCAAGA  
AGGAAAGCTTATCGGTTACGAGATGGTCATTTTAAATATGCCTTTGGCAGTAACGTGACCCC  
GCAGCCATACCTGAAGAATAGTGTAGTAGCTTACAACAACCTTAATAGAAAGCCCTCCAGCTT  
TACTGCTCCCTGTGCTGGTCAGAATCCAGCTTCTACCCACCCCTGATGATGCTGAGCAG  
CAGGCTGCATCCTGCTGGCATGCTCCGGAGACACTCTACCTGCATCTTTGCCCTCGGTGA  
ACATGTACGATCTTTTTGAAGCTTTGCAGGTGCACAGGGAAGTCATCCCTACACATACTGTC  
TATGCTCTTAACATTGAAAGGATCATCACGAACTCTGGCATCCAAATCATGAAGAGCTGCA  
GCAAGACAAAGTTCACCGCCAGCGCTTGGCAGCCAAGGAGGGGCTTTGCTGTGCTAAAT



### Table 4

>1273  
>1274  
>1275  
>1276

>1277  
>1278

**>1279**

Page 323 of 355

Table 4

ATACTATTTATTTAAATGCGGAGAACATGGCTAACCATTCAGGACCATTTAATTATCAAATTAT  
TAATGATTCTTCCATAATAAACAAGCAAACCTGTCATACTTGTTGACTTATATTTTCATTCCATGG  
AATTCAAATTTAATTAATTGATAAATCACATTGTACTTTATAAGAGTTTATTCCTTAAGTGTTTG  
AATTTACACTTTTTCTCCTGTGACAGCATCTATTCCTCAAGGCAATCAACATTTTAATGGAACG  
AAGTGAAGGTTTGCAATTGCTAATGTTATTTCTCCCATCCAGTTTCTACTTGTTTCTTGTA  
AGGAGGTTTCTAAATCTTGACTGTTGATTGACAATTAATGGGCTAAATTTCCCATAGCAAAC  
ACTTTTTCACATATACACTAATATTAGTATCTAAATTATATTAAATCTAATTTGGTAGCAATTGA  
CTTGAAATTTGTGATACTTCAACTTGTGCTAGGTTGTAGTTTGTCTGTATCACTCATAGTTAC  
TAAAAATGCAAAAGGCAAAATTTGAAATAACTATAAAAAATAAACATTTAATGAACTTTTAAATATG  
CAATACTCAATTGTAAATAACCATTCCTTTACTGAATCAGATGTTTCATTAAGTGTAGCAGT  
TATTTGAGTTATTTATATATCACAGAATTTTGAAGTAAAGATCATCTAGCTGAATTTCTTTAT  
ATTAAGAAGAGAGGAGAAAAATCTTAATACTAAGTATGTGTGAGCCTGGAGCTGCCATGGAGCA  
TGAGAGAGAGTCTCCTAGTTGATACCAACTCAGGAAAGCAGAATCAAGCAATAAAGAGACA  
TTTTGGGCCTGATGACATCATTTGAGCAGCTGGATCCAGCGATGCCTAAAGATGTGACTCCT  
AGACTTTTCACTTACATGAGCCAAAACGGTTCTTTGCATCAATAAATCGCTCTGTGATGCAT  
TTTATAATGTACAACCAAGAATCTCAATATTTATTTTGCATTAAATATCAGTAAGTTTGATA  
TAAAAAGCTCAGTAAATTCATTAATTTGAGAAATGTGTCTATATCATAGTAAAGTTTAAACCT  
ACATAATTTTCAATATTTATACCTTTTACTGCAAAAATAAAAAATGAGTTTATCCTTGCCCTAAAG  
CTGTAATAATTAAGTCTGTACAATTCTAGTTATTTGAAATATAAAATAAAATTATTGGTCATTTT  
ATGTANNNNNNNNN

&gt;1280

NAAGGCAATTTAATAAGATTTGAGCATAGATATTAAGTCTAGCATGGACAGAGAACT  
TATTTCTTGGGGGACTGGAGTAGTGAAAGAACAGAATCAATATGACTAGAAAGAGCAGAAAA  
ACTTACAACAGCTAATACTACTTGCTACATTGCTGTAGCTTTAAGATTGAGGGAGGAGGACTA  
GAGCCAGCCTGAGATCTTCTGGGTCAGTTTGATCTAGGCGTTCTTCTTCTTCTTAGATCTG  
CACTTTAAATACTTCTGGTGTCTTTATGACTTAAACGCAAAATAGCTTAGGCTTAGCTTTTCTC  
TTAAGGGTTTAAGGAGTGAGAGCAGAGCCTAAGTCTGAGAGCCTGAACCTTGCTGTACAC  
CGGAAAATGAGATGTGCGGGGTAGGGGGCAGGGACGAGGCGGAAAAGGACTACTCGGATC  
ATTTTTAAGATGGGAGAGTAGCCACAGAGGAACAGAGTAGGAATCTAAACGAAGTAAAGCAG  
TACGGGGGTAGGTTTCCCTACACAGTGTCTTACTTAAAGGGCACAGGAAAAGTTACAGAATGA  
CAAGAGAGGTGAGCAAGGAAATCTGCAGGGTGGCTGTTTTGAACTCACTACTGGTTTATTTA  
GAGAGGTCTAATCACTTGGACGAGGAGTATGGCGATCTAAATACTTACAACCTTTCATGGTG  
CTAGAAATCTTAATCAGGCAAATGTTTTTACACATTTGTTCTTGTAAACAACCTTGACTTGCTTC  
TGGCAGAAAAGACAGGACTGTGGTGGTCAGCCTGACCTCGGGGTGAGAAGTCGAGGACTC  
AGAGGTGGAATTTTATGGGCACCCACACGGTAGTCGATCCGCTCTCCTCTGGAAGACGGT  
CACCTTTCGAGGACCTGAAAATTTTTTTTAGGTGGCACCCCCCAACAAGCCGGCCGTCCNN

&gt;1281

&gt;1282

&gt;1283

&gt;1284

AGGAGAAACATAATGAAGAATCTGTGAGTAAAAAGAATATTCAGGCAACCCCTTCATC  
AAAAAGACCTAGATTGTCAACAGCTTCAGTCAAGATTGTCTGCATCTGAAACCTCACTGCATA  
GAATACATGTAGAATAAGTGAAAAAGGAGAAGCTACTCAAAAGCTCAAAGAAGAATTATCT  
GAGGTAGAGACCAAGTACAAAGAAGACGACTGTTTTCCACTTCCATTTAAACATTTTATAGCCA  
CTTCATTTCTATTTATTGAACAGGTCAAATTTGTCTTGTTATTTGTGAGT

&gt;1285

NNNAGGCAAACCTCCCTTTTTTTTCTTCTTTTCTGCTGATCTTCAACAATTTACTTAA  
CTCAGTTTTCTCACTTGTAATAATACAAATGATATGCCTATCTGCAGAGTCACTGGGAGAAATA  
AATGAAATGACTTAAAGTATATGTATGCTATCTGGCATGTAGTAGCAGTTTAATAAATTATAGT  
TTACATACACCAGAAGAGTACTTGCCTCGCTTTTCTTGTATGGTACTTTTTAATCTTATTATT  
AAACTAACCCCTGTGGTGGTGTGGCTACATTCTTTGAGTTTAAAAACGAGATAAAGAATTG  
CTCATATCTTCCCAAATTTGTGTAGTATAAAAAAGAACTGTCTGCTGGTTGTTTTTGTAGAATAT  
GGAAGTCCCTGCAGTAAGTAGGCAACATGCTACCTTCTATTCAACACCAGCACTAGAACAA  
GGCAAGTGGGACCTTTGTGACACATGATTGATTTCTTAAAGTCATTGGCTCTGGAGAATC  
TGAGACACCTGCATCCACACCACAGCTCAGGTTAGCTGCAAAAGTTACACATCTTCTCTAG  
GCCATACACCACGATAGCATCTTCTCTAATGGT

Table 4

&gt;1286

&gt;1287

GCGTCCGGCTTGAGCCCGGGAGGAGAAGGTTGCGGTGGGCCGAGATCGCCCCAC  
TGCCCTCCAGCCTGGGCGACAGTCTCAAAAAAAAAAAAAAAAAAAGCATACATCTCTGAAG  
GTAAAGTATAAATCAGTGGGCTCAAGATTTGCAGGTACAGCCTTGTTAATGCCTTCAATAATG  
CTTACGTTCCCTTGCTTATGGGTTATAATTTTACATCCTCTTCAGATACAATCTGAGAACCTG  
TTGACTACCTTTGTTACATGCAAAAATTTTCTATTTAATATTGCATTATATTAATGGTTTCATA  
GTACATTCCAGTTCTTTATCTGAATACAAGCGTTTTGCTTTTATTTCCAGTTTCTTGGACCAGA  
ACAATAAAATACATAAGACATCGTTTCTATATGGTCACTATACTATATAGAATAAAGAATTGTTA  
TGTAATTAATTAATGAGTATACAGACCTTTACATAAAAACTAAGGTACCTCAGTGGAATCTG  
CTACAGTGCCTCCCCCTCCCTACCCCTCCATTTTGTATAACCTTTTAGCTATCTAAATAATA  
CGTGTTCCATACTCAGGATAGCTGGTTAGCTAGCAAAAGAATTAACATCTGTGAAGCCATATT  
CATTATCTTCCTTGTCACCAAGGCTGTTGACCTTAATAAACATTAAGTTGATTTTGCACAACA  
CTGTATTTGTGTGTGTGCATGTGCCTGTTTTGTGTGTGTATGTTTGTGGGAAATAATTATGT  
TTGTTTCCGCATATATTCATTTTAAATGCATTCTGTAACCTTTCTCGAGTGGTGGTCATTGAGG  
GTAGGGAAGATTTTATTTTAAAGTTGTCGTTAAGGTATTTTATTAGTGTTCCTGAGTGTAATA  
CAGTTTTTTCCCAAATACCTATGGCAGATAAGAGCATTTTTGTAAATAATAAACTAGCACCCTT  
TGGGTAATTTGCATTATTTTGGACAGGTTTATTGTCATGTAAACAAATATCTCAAAATTC  
ATTTTACATTTAGCAAAGGTGCAACATTTGTTTTGGAGTTTGAGAGATATTTTCTTGTCTTC  
CATCATTCAATAAAATACTAAATTTGATAACCGCCAAAATAAAATAAAAAATAAAATAAGNN  
NNNNNNNNNN

&gt;1288

NNCACGCCATTCTCCTGCCTCAGCCTCCCGAGTAGCTGGCACTATAGCGCCCGCCA  
CCACGCCCAGCTAATTTTTGTATTTTAGTAGAGATGGGGTTTCACCGTGGTCTCAATCTCC  
TGACCTAGTCATCCACCCGCCCTCCGCCCTCCCAAAGTGCTGGGATTAGAAGCGTGAGCCACT  
ACGCCCGGCCAGGTGAGACTATCTTTAACCTGCTAATGAATTATAATTAGCATATAATGAGC  
AGTGAAGATGACCAGGGGTCACTTTCTTGCCATCTTGGTTTTGGTAGGTTTTAGCCGCTTC  
TTTACCTCATGCTGTTTTATCAACAAGGTATGTGTGATCTGTACCTTGTGCAGACCGCCTACC  
TCATCCTGTGACTTAGAATGCCTAACCTCCTGGGAATACAGACCAGTAGGTCTCAGCCTTAT  
TTTACCCAGCCCTTGCTACATTCAAGAAGGAATCACTCTGGTTCTAATGCCTCCGACAGAAT  
GGTCAGATTCTCAGACTCTAAAGCAAAGAAGACTATGTTCAAGTACAGCAAGACTGTTGAAG  
AAAAATAAACTCGAATGGCCTTGAGGAGCTATTATCAATAAAAAACAGTATAACTTATAATTATC  
TGTTGTGTTACAATGAAGTATATCATCACTGN

&gt;1289

&gt;1290

NCCTTAAGCGTTGAAACCCGGTACTCAGTTGATACTCGAAGACGGGCCCCCAAAAG  
GGCTCTGTATTCCACAGCCATGAATTCCATCCGGGAGAAGGCTCGACGGGGTGGTACCATG  
GAGACTGATGACCATATGGGTTGCATCCCTGCCCGTAATTGTAAGGGGAAAGGCTTCTGCT  
TTATATTGGCATCATTGACATTCTACAGTCTTACAGGTTTGTAAAGAAGTTGGAGCACTCTTG  
GAAAGCCCTGGTACATGACGGAGACACTGTCTCAGTGCATCGCCAGGCTTCTACGCTGAA  
CGGTTCCAGCGCTTCATGTGCAACACAGTATTTAAGAAGATTCCCTGTAAGTGGTTTCTACC  
AATTGACTGCCTACTCCTGCCAGTGGCTCCCTTACCCCAAGAGAACAGAGGGCAGGACAC  
CTCTGGTAGGGAGCTGCCAATGCCAGAGGCCTCTCCTTCCACCTACATCCCATGAGAGCCA  
TTTCTTGTCTTTGTGTTAGTCTGTCTAGTCATTTCCAAGTTGCTGTTTCCCCCTTGGCTCTT  
CCTGCATATGTCAATGAGGTGAGGACCATTCTGGGGAATTGGGATTTGCAAAAAATAAATA  
AATAAATAATGTGTAGTTGTGGATGTAGGATCCATGCCGCAGAGATAGGCAGAGCCTATGT

&gt;1291

NCCTTAAGCGTTGAAACCCGGTACTCAGTTGATACTCGAAGACGGGCCCCCAAAAG  
GGCTCTGTATTCCACAGCCATGAATTCCATCCGGGAGAAGGCTCGACGGGGTGGTACCATG  
GAGACTGATGACCATATGGGTTGCATCCCTGCCCGTAATTGTAAGGGGAAAGGCTTCTGCT  
TTATATTGGCATCATTGACATTCTACAGTCTTACAGGTTTGTAAAGAAGTTGGAGCACTCTTG  
GAAAGCCCTGGTACATGACGGAGACACTGTCTCAGTGCATCGCCAGGCTTCTACGCTGAA  
CGGTTCCAGCGCTTCATGTGCAACACAGTATTTAAGAAGATTCCCTGTAAGTGGTTTCTACC  
AATTGACTGCCTACTCCTGCCAGTGGCTCCCTTACCCCAAGAGAACAGAGGGCAGGACAC  
CTCTGGTAGGGAGCTGCCAATGCCAGAGGCCTCTCCTTCCACCTACATCCCATGAGAGCCA  
TTTCTTGTCTTTGTGTTAGTCTGTCTAGTCATTTCCAAGTTGCTGTTTCCCCCTTGGCTCTT

Table 4

CCTGCATATGTCAATGAGGTGAGGACCATTCTGCGGAATTGGGATTTGCAAAAAATAAATA  
AATAAATAATGTGTAGTTGTGGATGTAGGATCCATGCCGCAGAGATAGGCAGAGCCTATGT  
>1292

NNCGAGTCGGCCTTGTGGCCTACTGGGCCATTTTGTCTGCAGCCTGCGACCGAGTG  
GGAGTGGAGTGGAGCGGCTGTGGTTGCCGACTCTTCTCTTCCCCACGGTCCAGTCAGCG  
GGTTAATTAGGCCATCGGCCCTCGAGCCGAGACTTGTCTTATTTAGTTCTGGGGAGCGC  
CTCGTCCGACATGAGTGATGTGGAGGAAAAACAATTTCGAGGGCAGAGAGTCTCGCTCTCAGT  
CAAAATCTCCAACGGGAACCTCTGCTCGTGTAAATCGGAGAGCAGGTCAGGATCTCGTAG  
TCCATCAAGGGTTTCCAAACACTCTGAATCCCATTCTCGATCAAGATCAAAATCCAGGTCGA  
GGTCAAGGAGACATTCTCATAGACGTTACACTCGATCCAGATCCCACTCTCACTCTCATAGG  
AGACGATCTCGAAGTAGATCATATACACCAGAATACCGGCGGGCGAAGGAGCCGAAGCCATT  
CTCCAATGTCTAACC GGAGAAGACATACTGGCAGCAGGGCAAATCCAGATCCCAACACTTG  
CCTTGGAGTGTGGCCTCAGTTTGTACACAACAGAGAGGGATCTTCGTGAAGTATTTTCTC  
GATATGGACCATTGAGTGGTGTCAATGTGGTTTATGATCAGCGAACTGGGCGATCTCGAGG  
ATTTGCTTTTGTGTATTTGAGAGAATAGATGACTCAAAGGAGGGCTATGGAAAGGGCAAATG  
GAATGGAGCTGGATGGTAGAAGAATTCGGGTGGATTATTCTATAACCAAGAGAGCGCACAC  
ACCAACACCAGGCATCTACATGGGCAGACCAACTCATAGTGGTGGGGTGGTGGAGGAGG  
CGGCGGGCGGTGGAGGTGGAGGTGGTGGCAGACGTCGAGATTCTTACTATGATAGAGGATA  
TGATCGTGGGTATGACAGATATGAAGACTATGATTACCGATACAGAAGACGATCACCTTCTC  
CTTATTATAGTCGATATAGATCACGATCAAGATCTCGTTTCTACAGCCCAAGACGCTATTGAT  
AACGGAATGGTTGCAATTAAGGACATTTTTTCTCTTTTTTTTTTTTTTTTTTAATTTCTGA  
GATTTCCCCAAGCTGTGGATTCTTCTACTCCTTAAGAAAAAACTTTGGTTTATTTAGCATCT  
ACACTTTTGTGAGTTGTGTTGCTGTTTTCCACCCATTTTATTATACTCTTAAAAGATGTAATTG  
TTGTCATTTTGAACAGTTAAACATCTTGAGTATAAAAAGAACCCCAATGTTATGTTATGCTTTG  
TAAATTTTTTTTTTGTCTTTACCTAGATAAACTTCTAGCTAATCAAATAAGGAAAGAAACTGTC  
TTTTAAAGCTTCTTTGTGTTAGATACTGTATTAGAGATCTGCATTTATCATGAGTTCTTTTT  
TTTTTAACTTTATTTTTGGGAAAGTAACACATGAAGTAGTTTCAGTCATGTCAGTTTGTCTGG  
GGTGAATGGAACAGTCAGGTAGTTGAAAGTTTTTTTTTAGAGATGAAAAGCTTGTGAACTC  
CTGTAACACATGCTGTATTTGAAATACATCTGTTAAACTTAAAACTAAAGTAAAACTCTTT  
TATTCATACTACACTGTTTCGTGTTTACAACGTTGTGACTGGGCCCTGGGGTACCCAACTTC  
GCCTTGCAGACTTCCCNNNN

>1293

ACTACCTGTTTAAGGACATACCAGAAAAAAGTATTGATTTTTATCCTATGCTAAACA  
GTGCTGTGATAACTTTTTGTATCACTTGGAGAATGCTCCTGAAATTATGCAACACTACTAGATA  
ACCCCTGGATCAAAGAGGAAATCAAAGGGAAATTTACACTGTATTGTAAAGAGAGGAGAC  
TTTTATGCCAAAATACAGTAAGTCTTTAGTCAGATAAAATTAATAATCTTAAATCCATTATG  
TTAAAGAAGAAAGACAATTAAGAAATCTGACATAATCAGAAGAAATTAGAAAACGAATAAGT  
AAAAGAATCTGAAAAGGAGAAATAAAAGCCGGAATTTAATGAACCAAAAAATTTCTACAAGGGA  
TAAACAAACCCAGATGCTGGTTCTTTTATTAATAAAAAGAAAACAAACAGTGAACAAGGTAAT  
TAATAAACCGTAATGCATTAAGTTAAAAATACTAGCGAAAATATACAAGATGAGAAATGAGAA  
AGGAGAAATAAACACAAATACAGGATATACTACAAGAATAATAAGAGAATCTTATATGGCTA  
TCTATGGCAAAGAGANAAGAAAAAATTAGAGTAAATTGATGTTTTCTAGCAAAATTATCTCA  
AGANGTGGGANAAATTTGGATTAATTGATTGTTTTGAAAGAGACTAAAAAGTTATTTAAAGG  
TTTACCCTTGGAAAAGGACACCCNN

>1294

>1295

NNGGCCACGGTGCTTCCGGGTTCTGGTGTAGGAGCGGCGTCTTCTCGCGCGGATG  
GTGAAGCTGAATTTGGTACGCTGGACCCTCGACAGACAGCAAGAGAGAGACAAGCCCGA  
GGCCTGACTTCTAGCACTCCTGAGTTTGAGCCCTATGAGCAGTGGAACTAGGGACCACCA  
AGGATCCAGATATAATTCTTCTCAGTAATAGAAAAAAGAATCTGGGATCTAAGAAGATACC  
TACTCATTTTCTAAGTGACTGGCCATGTCATTGTCCCACTTATACCGGGATGGGGAAGGCCG  
CATTGATGATGATGACGAGCGGGAGAACTTTGAGATCACTGACTGGGATCTCCAGAATG  
AGTTCAACCCCAACCGACGCGCACTGGCAGACCAAGGAAGAACCCACCTACGGGGTGT  
GGGCAGAGCGAGACTCGGATGATGAGAGGCCAGCTTTGGAGGCAACGGGCCCCGTGACT  
ACTCTGCGCCAGTCAACTTCATCAGCGCAGGGCTCAAGAAAGGGGCAGCGGAGGAGGCAG  
AGTTGGAAGATTCTGATGACGAAGAGAAACCTGTTAAGCAGGACGACTTCTAAGGATTTT

### Table 4

>1296  
>1297  
>1298  
>1299

Table 4

&gt;1300

&gt;1301

&gt;1302

NNNGCCATCGCGATCCTGCAGTATCCAGCGTCCCTTGGACAGACTCTGCCACTGTT  
GCCACAGCCACTTCTGCCGTCCCCAACGCCACCTCCTCAGGGCCAGCAAGATGCAGTTTGA  
GATGCACGACAACGTGAAAGGCAAAGCTATGCTCCTACCCTGTGACCAGTCAGCCCCAGTGC  
GCCACCACCAGCTGCTACCAGACCCAGCTCAGTGAAGTGGCACACAGGTCTCACGGACTGCT  
GCAACGACATGCCTGTCTGTCTGTGCGGCACTTTTGTCTCTGTGCCTTGCCTGCCGCATC  
TCCGACGACTTTGGCGAGTGCTGCTGCGCGCCCT

&gt;1303

&gt;1304

&gt;1305

AGGGAGTCGACCCACGCGTCCGCCGAATCGCGGAGCGGGCGGGTCCCGTCTCGA  
CAGGTCTTCTCTGTTGGTTGAAATGTCTATGATTTTATCTGCCTCAGTCATTTCGTGTCAGAGA  
TGGACTGCCACTTTCTGCTTCTACTGATTATGAACAAAGCACAGGAATGCAGGAGTGCAGAA  
AGTATTTTAAATGCTTTTCGAGGAACTTGTCTCACTTCTGATAGATGTACACTGAAAACTG  
GACATTATAACATTAATTTTATTAGCTCTCTGGGAGTGAGCTACATGATGTTGTGCACTGAAA  
ATTACCCAAATGTTCTCGCCTTCTCTTTCCTGGATGAGCTTCAGAAGGAGTTCATTACTACTT  
ATAACATGATGAAGACAAATACTGCTGTCTCAGACCATACTGTTTCATTGAATTTGATAACTTCAT  
TCAGAGGACCAAGCAGCGATATAATAATCCCAGGTCTCTTTCACAAAGATAAATCTTCTGA  
CATGCAGACGGAAATCAAGCTGAGGCCTCCTTATCAAATTTCCATGTGCGAACTGGGGTCAG  
CCAATGGAGTCACATCAGCATTTTCTGTTGACTGTAAAGGTGCTGGTAAGATTTCTTCTGCTC  
ACCAGCGACTGGAACCAAGCAACTCTGTCTCAGGGATTGTAGGATTTATCCTTAGTCTTTTATGT  
GGAGCTCTGAATTTAATTCGAGGCTTTCATGCTATAGAAAGTCTCCTGCAGAGTGATGGTGA  
TGATTTTAATTACATCATTGCATTTTCTTGGAAACAGCAGCCTGCCTTTACCAGTGTTATTTA  
CTTGCTACTACACCGGCTGGCGGAATGTCAAATCTTTTTGACTTTTGGCTTAATCTGTCTA  
TGCAACATGTATCTCTATGAAGTGCAGCAACTCTGGCAGCTTTTCTTTCATGTGACTGTGGG  
AGCATTTGTTACACTACAGATCTGGCTAAGGCAAGCCAGGGCAAGGCTCCCGATTATGATG  
TCTGACACCATCCTTCAGATCTATTGCCTTGGCTTCAGGGGGATAAGGAGGGAACATATCAT  
AACTGCACTGTGATGAAGAAGCTGTTCCCCACAGAGGAGAAGCTCTGCTTTCTTCTCTCCA  
ACTTTCCTTTTTTAAATCAGCATGATGTGCCTGTGAGCATGGAAGAGTCCCTCAGAAGAAT  
GTTGGCCATGAGACTATCATTACAGAGGAGGAGGGGATTTCTCTCTTCAAGGCCATAACAGTG  
GAAGAACAGTCATATGCCATTGGAAGTCTTGGCCAGCAGTCCTGAATCCTTCTGAAGAGTT  
CAGAAAATAGATGTGGTATTGCTCTGAGGACCAGGCAGGAGGAACTCTACAACCTGAGTTTG  
CCTTTGTGAGGCATTAGTATAGACCAATAAAAGCTGCAGAAATTGGAAGTTTATGTTTTA  
AATAAATGACTGTGATAAATTTAGATTATTTGCACATTTATGGTACTACGAGTTTATAAAGTC  
CAAGATGGTGTGAAATTGTTCTTTTTACTTTTTATTTTTGCTTGAATCTTAACTCTGGAAT  
CACCTGATGTAGAAGAAGACTGTGATGAGCTCGTCTGTGGAACATCACAAGTATCGAAAATA  
CAGTAATGGATGTTTCTTTCTAATCCACATTTATTGTTTCTTTGAAATCACGTCTAAAAAAT  
ATGACTCAGACTATAGCCGTTGTTTCCCAAACCTTCAGTCTCTTTAGTACTACTTGTATTATTT  
CTTAATATTTATCTTTTAAATTTTAAAGTTTTTTAAAAAATGAATCCTGCTCCAAGTGAAAA  
CCAGTATCAGTTTGCCATAAATAAAAGGTAANNNNNNNNNNNNNN

&gt;1306

&gt;1307

ACTTCCATTTGAAAGCTTAAAAAAGTGAGTGTAACAACAAGCACTCAGGAACTTTAG  
AATTAAGACATTAATAGCTTATTTCTTTTAAAGTTTTAAATTTATAGAAAAATAGTAAGTGGCATG  
GTATTGTTTGACTTAATTAGAATGTGAAAACCTAGTGCTTTTGTAATGCTCCAAGAAGAAATC  
CAAATATTTGAAATAAGACATTATTATTGGTCATTTTAAAGATACTTCATGTTTTTCTTAGATGCC  
TTTGAGTAATGGACAGATGGGCCAGCCTCTCAGGCCTCAGGCAAATTATAGTCAAATACATC  
ACCCCCCTCAGGCATCTGTGGCAAGGCATCCCTCTAGAGAACAATAATTGATTACTTGATG  
CTGAAAGTGGCCCACCAGCCTCCATATACACAGCCCCATTGTTCTCCTAGACAAGGCCATGA  
ACTGGCAAAACAAGAGATTTCGAGTGAGGGTTGAAAAGGATCCAGAACTTGATTTAGCATAT  
CAGGTGGTGTGCGGGGTAGAGGAAACCCATTACAGACCTGATGATGATGGTATATTGTAACA  
AGGGTACAACCTGAAGGACCAGCATCAAAATTAAGTGCAGCCAGGTGATAAAATTTATTCAAGC  
TAATGGCTACAGTTTTATAAATATTGAACATGGACAAGCAGTGTCCTTGCTAAAAACTTTCCA  
GAATACAGTTGAACATCATATTGTACGAGAAGTTTCTCATAAGCACTGTGGACAAAAAAGC

Table 4

GGGGAAGACAGCAAGATTTATGGGAAGATACTTACAGGGGAAATTAATATTTTGACTATTTT  
ATTGCATCACCAAGGATATTCTTAGGTGAAATTGGCATTAAATATATATTTATTGTGAGTGTGG  
GGTAGCAGTTGGGCACCACTGCCTTCATTCATGCTAAAGTGTGGATAATTATACCTGCCATT  
TCTTTGGGACCATGGATGCGGGACGACGGGTANN

&gt;1308

&gt;1309

&gt;1310

&gt;1311

NNNNNNNGCTACTGTGCATATCTTCCCAGCTCCCTTTTCACTGTTATCACAGTTGA  
CTATGGTGGTAGTTGTTGGCATTTCCTGAACATATCACACTGATTGTGGGGGCGGGGAGGG  
AGAATCAAAGTTGGAGAGGTCATGAGAAACCATGTACAACTAAAATTATGGGAGAAGAAAC  
TATGAGTGAAACGATGAGAAAAACCTAATGCATGATGTAGAACTGAGTGGTGTAAATAGCAG  
AGCACTGGAGGGAAGGGCCACAACTCTTACCCCAAGGTCTAGAATCATTCTAGAATCAT  
CCTACAAGCCTAGTTTTCATGAGATTACAGCCCTATTTTATTTCTTGCTCTTGAATTATATGAA  
ATTACGAATTTCTGTGTGTTGCCAGCTGTAATAGAATACCCTGGAATTTATTTACTTTTAATT  
TTGTTTATTTATTTATGCTTATGTCCATCTTCTCATGAAAAAGAGGCAGTATGTTAAAGTTT  
GAGTTCAGATTTTCTGATGTAGATAAATAAGCTAAAGAAGGCAGGGTGAAGTGTGATATATG  
AGAATTTCCAGAGCAGGGTATTCTGAACCTGTAAGTATTTAGTCCAAGTCCCTCTCCCAACA  
CATTTTACACTAGAATAAGATTGAAAGGCCAGATGTGGTGGCTCACGCCTGAAATCACTTTG  
GGAGGCCAAGGCAGTGGATTGCTTGAGCCCGGAGNNN

&gt;1312

ctcaAGAtcgacTTTTAAATGGGTGTGATGTGATTTTTTTTTTAAGTAGCAGGTTTCATTTTA  
AAACAAAAAAGGTTAGTGAAGACTCTGTCTTTCAAACATAAAAAATCTGCGATAAAACCAATT  
ATTCCATACAGTGAAGTACGGTCAGTTCTGAGAAATGACACCCAGGTTGGCGATGTGTCTCAT  
GGTTGGCCTTCCATGGGGACAGTTCCAGGGGTGGTCCATCTCCCCCATGTGGGTGATCAGT  
TTCTTCATCTCGCTTGTTAAGAGCAGTCCCAATCATCACCGACTTCCGGCAGGCTCTGGA  
GGCAAACATCTGCTTGAAGTCCGGAAGGCCGACATGACCCAGGGCTGTCGCTCAGCAT  
GAAGATCAGTTCATCGACGTCCTGGGGTCCGAAGGTCCAGCTTTTACATTTTCATCGAatacaa  
aatcgaagCCATTCTTTCTAAATATTTCCAGATTTTCTATCAGAACAGcttcaTTAACTGCTGTTAagt  
gagagtctgaggtgctatgagcctCTGCCCTGGAGCACGGTGTGCTGCTGCAGCATCTCGAAGTTATA  
CTTCTCGTCCGTGGCATGCTGGTCCACTATGAAGATATCCTCATTGAGTTTGGTTATTATAAA  
TCCCAGGTTAAACTGACCAATGATTTCCATTTCTGCAAACATCGTTTTACTTATCTCTTTTCTT  
AGTTCATCTTCGGCTGCTTGATTTTCTCCAGGACAAATCCTTGCCCTAAACTTCCTGTAATTC  
TGTTCCCTTCACTTTGCTGTGCTTCATGATGTAAGTCTTTATTCGTTTAGCTAAAGAAGTCA  
GAAAAGTTCAGGGGCACAACCTTTCTTATTAATTTTACAGCTACATCAACCTGAGAAGCTGAC  
ACGTTCTGAGTATTTACTAActttgacgaatgacgaatggaaagaattcttcttcttaaaacaCTTtTGTTgggg  
ATGTGAgaTTAGTggctGAGcaAaacCTGAaatttaCATccgGTATCTTCTGGTTTGAaTggcAGTCC  
ACATCTGAaaaaGAGTGCCTCAGTTTCAGGCGCTTCTCCTGAGAGTCCACATGTTCTCTGCGA  
GCCCCTGTCCCCTGGGGTGTGCTGGCCACACACTCGCTGCTGCAGTGAAGTCCCGTGTCTGG  
GATGCTGAACCCCTCAGAAATCCACGGAAAGTGTGCTGCCATGCCCGAGTCTTCTCCACCTCC  
GCTCTGTCCGTAGGGTCACTGGGTCCCTGACTGGAACCTCACTGCCTCTTTCTGAGGTCTCA  
GGACGCCCTTTGTGAGAGATGGCATCTGAAGTGTGCTAGAAGACGACATACCCCTTTTCTGTCTCT  
AGAGGGCTCCTTCTTGTTCTGGAGTCTTTGGGCTGTGAGGCTTGTTCTCTGTTGTGTGACG  
AAGAGAAAAGGCCTCTCGCAGTCTGGAAATGGACACGTCCCTTTTCTTCTCCAGTCTTA  
ATGAAGGGGATTGATCCTGCTTTTCTACCATGGGCTTTTCCAAATCcgctgcatgcattttattaagttacc  
taagcaaacgtggacggagaagaggggtcagggactatcctgaaatggtagaggacgtgctatgtgaacagatacttcacaaag  
aggagatccacatgctaattacacagatgaacacagttcaatgttcaaaataaaactataatagggccagggtgtggtggttacgcctg  
ttatccagcacttaggagggccaaggcaggggatcacatgaggttaggagttcaggactggcttggaacaacatggttaaaaccctgtt  
tctactaaaaatacaaaaattagccgggtgtggtggcatatctgtcatcCCAGCTActegagaGGCTgaggcAGGAGAATC  
GCTTgaaccaggaggtgagggtACAGTAAGCCAAGATTGTGCCACTGCACTCCAGCCTGGTGACA  
GAGCGAGACTCTGTCTAAAAAAATAAATAAATAATAGAGGTGAATGTCTGCATTAGGATCAA  
GACAAGAAGAAGACAGACAATCACTTTGGAATCTGAGACTACCTCCAAGAATCATCCACGG  
AAGGATGTCAGCCATTTAACCAGGGCTACGGATCAAAAAGGAAAAAATACAGTCAGTGGACA  
AGTAGAAGAGTCTCCTGAAAAATATCCGTATTTGAAAAGGCAGCAGGAGTTGATAGAAAACA  
TAACTAAAAAAGTAGAAGACACTGTTAAATTTGAATCTGGATCCTATATAGCTTCTTCTCTGG  
GATCTACTGAGGAGTGAAATCTAAATGAAGATTTAGCTTAGAAAGCATGAAGATAGTATGTTCT

Table 4

CAATTTTAAATAAAAAATTATATTGTCTGAAAGACAATACAATTTTACTGACTGGGGGAAAAAAA  
CTAGATTGTTATTTGAAGAAGAAAACATCATGGTTCTCTCCAGGTTTAAATGGGTGCTCCCA  
TGTAAGGCTGATTTCCCGGCATTTGATCTTAACCTGAAGGCCATCTGCCAGCCAGCAATC  
AAAGGGCTGCTAAGCTGTCTTGGTAGCCTCTACTGGGCAAAGCTGTGCTATAACTCTGAAG  
AAAGGGAGATCTTTTAAATGTTGATTACTGAAAGGCTTAGAAAAGATGTCTTGAAGAGGACTAA  
ACACAAGAAAAATAAATTTTAGCATTTGAGACTTAGGTGTTAAGAGTGCTTAGCTCTTAAT  
ATTAACCTCTTCTGAGGGGAGAAAAGCTCCATGAAACAGGTTTCTGTTTGAGGCTGTAATTTCTC  
TAGGGCAAGAACATCTACTCAACACTAACAAATGCTGGAAGCAGGCATCTGATTTCTTTGT  
GCTAAGGGCTGAAATCAATACTGGCCTCTGGCTCCCTACATTCCTATAGAACCAGCTGCAGG  
TAGGCAGGAAGAGAACAAAAGTTGTTTTGGCGGCACTCAGTACAATAAACCGAAGACAAAAA  
AGACAGAGTAAAGTCTATTAACAGATGGTAAGTAGTAGATGATACTGGGGTTATTTCCGGTAAA  
AGAATATCAGATTTTTATGAATGTCTTAAATATTACCTATAACCACAGCAGCCACATGCCCA  
GGTTTCTCAGAACCAATCTCAGTACCAATATTGTCATGTTCTTTGTCCACATACTAGGTTTTT  
GGTTTTAAAAATAAGGTCGCTGCAGTTTACATGCCACTGCTACTGGGAGGCATACACTGGG  
CCACTTGGATAGGCTGTCATTTTCTGCAATCAAGAGACCCATATCACCTCCTCAGGAGCTC  
TGGCCTATTTTTGTCTATTCTTGTCTACCCTAATTGATATCCTTGGCTACATTTATGATAAAT  
GTTTCCTGACCCTCTTTCTTTAGATACCGATCAGATTAAAGTACAAGCAATTTGCAATT  
ATCCAGCAGCTTGATCTAGGCCTTTAATTCCTTCAGAGAGAGAAGGAATATAGAGATAAACTC  
CCACCCACTTGAGGTATGGTTTATGAGCTCTTGCCCAATCACATTACCATTCAGAAGGATTTT  
CCTGGCTGACTTAAACCAAAAGCTTCATTGTTCCAGTCTGTCATGTCACTGCAGCAACAGCT  
GTCACCTCAATTATGCAGTATAATTTTTGACATAATTTATATAAGCACACAGAATTCATCAGC  
AGCTGAGCAGGGAAGCAATGTTAACAATGCTATGAATGGGTATATGATTTGATATATGTG  
GCTCATCTGTGACTGGAGCAATCCATCCATTCCCCTCATTACTCTGAATAATCTAGAAATGG  
TAGATGCTCCTGGCCAGACAGCTGTATGTTTTAAAAATCAAAAACAACAAGAAAAGCAGCCT  
CATGGCTGGTGCGCTCTAGAATTAAGGCTATATTAAGCATTTATTCTTATTTCTCAGCTTTG  
GGGCTGGGACAAGGATCCTCAAAACCCTGCTATTTCTTACTTTTAAATTGTGATTCTCTAGCC  
CTCCTCAACTACAAAAAGAAAAGGATAAAGTAGGGCATTTCCTTGGGGACAAAGGCAGAAG  
GATATGATCAGACAAATTTCTCAATAGCAACACAGAAGGAAACCAAAACGAAGTATTTTGT  
GAGTAAGGAAGGAAAAGGGGTGTGTCAACATGCTAATGCCAGGGGCCCTGTCACTTTCCCA  
aggggtAccaGTCTTTcaggggacCATGCCCTTTATTTTTATTTATTTTTTAggagacaGGGGGGGT  
CTcacctaCATTGCCCaGGCTGGTCTCAAActtctGGGcttcaAGCAatcctcccacctggcctcccgatgctgg  
gattacaggcatgactaaccatttaaccataaaaaatatttttagtcacttaaaaagagactttgcatgttgagggtcagatgctaagttat  
cagcaggctcagtcagtcctcttgattatagctgtggaagagaaatggccccagttcatcaccttcttagccccagcctcatcccgct  
cccagacaccggaaggccagcaaagacaaataaggtattcggcatctcctgcagtttctattgctacgtggacagaagggggtga  
ggaaaggtgggaaacgaacctggctcttaggcttgtgctgctgacttgaagaatcaaagaaactaagtcctgagaggggacaat  
gcagcacacaactgaacaatatcatccctacagcttaggaatcgtactccagtgggctctggtgctgctcccatccagatgaggggtcgggt  
gaagccagaagc

&gt;1313

&gt;1314

NNNCCGGNATTACACAAATCCTCAACAATCGTCCACATATTTTCTCTCACACAGCTG  
CCTCCTCACTCCCCTTTGCAGCACCTGATGTACCTCCTTAGAAACCTAGACTCCACAGAACA  
CTGTTTGACAACCACTGCAGTAGAACATAATATCAAGATTCTAGGAGTGGGTTTCTTTCTT  
CATTTTTACATGTTGTAGAATAACATGCATAATCAAAGCTAATAATACTGTGTTTTCTTACTCT  
TTTTTTGCCTCTAAAGACATCCACACATAGTGGTGAACCTGATTTTTAATGCGTTTTAAATAAA  
AGGCATTGAAAAATATTAATAATTGTAATTACTAAAAGTATTTCTCTTTGCGATTCTCTTATCTG  
TGTTTCCAGACCGGTTGGAGGGTGACAGATCAGAAGGCTCTGGTCAAGAGAATGAAAATGA  
GGATGAGGAATAATAAACTCTTTTGGCAAGCACTTAAATGTTCTGAAATTTGTATAAGACATT  
TATTATATTTTTTCTTTACAGAGCTTTAGTGCAATTTAAGGTTATGGTTTTTGGAGTTTTTCC  
CTTTTTTGGGATAACCTAACATTGGTTTGGAAATGATTGTGTGCATGAATTTGGGAGATTGTA  
TAAAACAAAACCTAGCAGAATGTTTTTAAAACCTTTTTGCCGTGTATGAGGAGTGCTAGAAAAT  
GCAAAGTGCAATATTTTCCCTAACCTTCAAATGTGGGAGCTTGGATCAATGTTGAAGAATAAT  
TTTCATCATAGTGAAAATGTTGGTTCAAATAAATTTCTACACTTGCCATTTGCATGTTTGTGTC  
TTTCTAATTAAGAACTGGNNNNNNNNNNNNNN

&gt;1315

&gt;1316

NNNNNNNNGCTAAGCAAAAGATTTTATAATGAAGAAAGATGAGTAACTAGCCTCTCA



Table 4

ATCTTCCATGACTGGCAGGCTGGGCCAGGAGAGAAGATGGAACATGCGGCCAGGCAGGAA  
TTCACATGACCCTAAAGCTGCCGGTGGAGCTCTCAAAAGTCCCTAGATCCACTGCGTCCGTC  
TCTAGGTGGAGCCTGGACAAGGGCATCCTTCACACACTTCCCAGGGGCTCATATACAATGA  
AGATGAGAACTCTGCTGCCCCGGAAGGACTGACATTCTTCGGATATCCTACAAACCCCTTCTG  
AAGCTCACTTTTGGATAGATATGGGCTGTACCAAAGACACTTATTATTCTAACATGCATCAAG  
TAAAGTAAACAAGGAGAGAGGCTGCGGTGTGTGGGTAGGGGATGCAGGAGAAGCTGTGT  
AAGGTAGTGGACAGCTGTGTGGCTCTGGGGATGAGACAGACTAGACCAGGCAAGTGCTTCA  
GGCAGGTGCCCCGTGCGGAGGCCCTCTGGAGTTACTCATCTTGCAGCCTCGGGCTACTCAC  
CATCAGGGAGCCCCGGGAGCCACCTGTGTTTTTGTGTTTTATTTATTTATAATTTATAT  
TTTTGAGACGGAGTCTTGCTCTGTACCAGGCTGCAGTGCAGTGGCACCATCTTGGCTCACT  
GCAACCTCCACCTCCTGGGTTCAAGCGATTCTCCTCCCTCAGCTTANNNNNN

&gt;1317

&gt;1318

ACTACTTTTGTGTTTTTTTTTTTTTGGATCAATAAGTTTATTTATGTTGCATCACACAAT  
AGTTACACAAGCTTTTAAAAACACATGCACACGTGTTTATTATACCATACATACAAACACACAT  
ACAACCTAATTTTACAAGCACATACAAGCACATTCAAACCTTTTAAACAACAAACAACACTAAT  
TCAACATACATACAATACTTACAGCTTACGTTTTTTCGTTTTAGCAGTTGTAGAGGTAGATGA  
GGCGGTGGGTGTAGCTTTTCGTTTTCTAATGTAAATTTTGGTTTGGCCTTCAATCCTGCTTG  
GAGTAAAAATTTGCGTCCTAAAGGAACTGATCTAGGTCTGCAGAAAACCTTTCTTTAAATA  
TACTGCCCAAAAAGAGTATTTTTTAAGGGGAN

&gt;1319

&gt;1320

&gt;1321

&gt;1322

NNNGTGAAAAAGTTGTTTCTTTTAAAAATATTTAATCCAAAGTATCCCTCCCTCCGG  
GAATTTAGGTGCCCCAGGGCCTTCAGGGCCCCCAAGATCACACACACACAGCAGACAAGT  
TCTCTCTCACACACACACAGACACACAGCTCCCAAACTTTTACAGAAAAGTCTGAGAGC  
AACCATGTAATTATAAAGGAGCCCTACCTCTCAAGAGTGAAGTAAGGGTGAGAAAGACTATG  
TCATTTAGCCTGAAGAAGCCAGAGACAGGAGAATGTGTGTCACTTAAAGAAAAATAGGGAT  
TAGCAACAATGTTTGGTTGAAAAGCCAGAAATAATAAAGATAGTAAATTTTGATTACCAA  
GGGGAAAAACAAAAGCAAAACACTTTTCTNAGATTTCTGTACAGAGCTTCTTCTATTAAGTGCC  
TAAACTATAGGCAAACTTTGGTGTTCCTACTAAACACAAAGAGCCTCACACAATTAGGAAAAA  
AAAAATCAAAAGAAACAAGGAACTGAGAATGGAAGTTAGTGTAAATCTCTGCATTTGGGGA  
GTTGTCAATTAACCTCAGAGCCCAGCATAGTTTCCATGGAGCCCTGAAGGGAGGGGACCTCC  
TGCCACAAAGAGTTTTCGTTCCAGACGAGTCGTAGCAGTGGGTGTAAACAGCATTGGGGAAG  
AAGTCAATGTCTGAAAAGTAATTCCTCCAGGTTTCATCATGATTCTACGGGAAGAGAAAGAG  
ACTACAATTAGCACCTTAGCCATGGGGCAGGAAAAGGGGAGGAAGGGACAGGAATGCTT  
TCTGGTCTCCTTAAGGGAACAGGGTTCTACAGGT

&gt;1323

&gt;1324

ACGATAGGAGCTGGTTGTCAACTGATTTAATCAGTGGGTATTTAGTATGAGGCATA  
GTTGGTGAAGCTTTTCACTGTGGTAATCTGAGGTGAATATTGACATAGAATTAGAATTATAA  
CTCACATAAATTACACAAAAACATTTTACATTGCCTACTGATTTTATACATATAACCAAGA  
AATAAAGTATATGGGGGCCACCTTTCTCCAGGGATTTATAGGGTAATTAGACGAACCTTCC  
AATAATTATAAAAAATAAGAACTGAAATAGCAAGTGCATATTCTGAATTACAAAAATCATTCAA  
GTAACAAAAAGCCTATATCTTTGATCCCAATAACCTATTTTAAATTTCTTTTTAAATAAAAGTG  
TTAGAGGCAAAACAAAAGTGCCATAACTAAACCAAGTACAGACAAAGGAAATAGGAATGAGA  
AACAGTGTATGTGTGTTTGTATGTGTGGGCATGCCTATAGGTATAGTTGTGTGTGAATTAAG  
TGAACACACTCGCTAATTGAATAAAATACAGTAAGTGTTTGTGTTTGTAAAAAAATATAAATA  
ANNNN

&gt;1325

&gt;1326

GCGTCCGGCTATTATAGTCATTTTACAGATGATGAACTAAGATTTCAGAGCAGCTGA  
TCTTGTGAGGCATCTGGAATTGGAACCTCAGATTTGTGCAACTCTAGAACTAAAGATCATAATG  
ATGTCTTGCAATATATTCATTTACAAAACACTTCATTATTTATAAAGAATTTACTAACAGTTTAT  
CTTATTTATACCCATACATCTGCTACTTTGGGAGGCCCTTACATAGAAAACAGCATTCTTTTT

Table 4

GCCAAATATGACCAAATTACTTTTATTTATAATTTTTGATTTATATTTTCAGCTAGATCTAAAAAG  
CATCTGAAGGAATTTACAATGAAAGATACCTATGCAATAACATTTAGGATAATCTTTGACATTT  
TGGAAAAATAAGAATTGAGGAAAAAAGTGATCTTTCAAGTAGATGCAAAGCATTATAATGA  
CTGACACTTGTATCTAACTCCAGTCTTACAGATAACTAAGGCAAAAAGCTAAATAAACAATAT  
GTAACCTCTAACATTTGGTAAAAGGAAGTATACTGGTCTGTTAGCAGAGACAAACTTTTTTTA  
GAATTGAAGTCTGAAACAAACAAAAGCAATTCATGTCAATAGACATTAAGCAACATAATAGA  
CAAACATCTCCTAAGGGAACATTTGTTACAGCTGCTCCTCCCTGAACGTGCTTTGGGAAGAT  
AAGCTCTGCTCCTGAGTCCAAACCAAGCCCTTCCAAGAGAGAACAAGGTCAGAGATGTTGAA  
GATTCCAGCAAATTTCTCCTCTTATTTCTACCAAGCCTTTGTGAACATTGCTCTTCATTTTGGC  
CTGTACTTCTCCCTCAGGGACGTAGAACAATGGAATGTCAGTCAGTCTCTGTAGTTAAAACTT  
TTTCTTTAAAATTCAATTAAGGTACTTCTCCCTCAGGGACGTAGAACAATGGAATGTCAGTCA  
GTCTCTGTAGTTAAAACTTTTTCTTTAAAATTCAATTAAGTTACACCAGAATTTACAGGCAAGA  
TTTTTTTTTTCATTGCTCCCATAGCAAATTTGTTTTAAAATAATTGTAAATGAGGTATATACTT  
AGTTCTTGGTTAAAAAATATATTGCTTTGTTAAGTATTAAAGATTATTTGTAAGTCATTGTATTA  
ATAATACTAATAAAATTTATCAAGCCTTTATAGCAAGGGTCAGTGAATTACCACTGCCTGTGG  
GCCAAATCTAGCTCACTATCTGTTTTGTAAATAAAATTTTATAATAGTACACAGCCACACTCA  
TTCATTTATTTCTGTGGTTGCTTTCAAGCTACAATTGTAGAGNNNNN

&gt;1327

TTTCCAGGGAGTAAAAAGGCCTTTTGGGTGGCACATAAATCTACTGCGGTGCTGCCT  
GCTGTGGCGCGGGACAGCTGTTGAATTGTTGTAATTGGCTGACTCCCTGAAGTGGTGGTAT  
TTTCTGTAGGGGTTGTTGTCCTTGAAAACCCTGAGGAACAAACAGTTAACTGGGAATGCCC  
CAGTTTGTGGGGGCGCTGAGGCTGGCCCTCTTCTGTTTCCAGACAATGGTTGCCCTC  
TTTATCAAATTTAGAATGACATTGATTGGCCCAATGTTTTGCTTTTCCACATTTTGGACACAGG  
CCAGATGGCTTTTTATTTTTGCTGTTAATAGCTTGATTATTATATTCTGTTTATTTAAGCCTG  
GGCAACTCCTTTTCAGATGACCGATTTGACCACAATTATAACATTTTTTCCCAAATGTTCTAAC  
TTGCTCCTCCTAGAGTGAGCCCCCTCATTGCTTGAGCCATTAGCATTGCCTTATGCATAGCTC  
CTCCAATCCCATCAACAAGCCTTCACATATTCTGTAATTACATCAACTCCTGCTGGAACTTTTT  
CTTTTAATGGCTTTATGGCCGACTGACATTCTGGATTGTCATTTTCATAGGCCATTAATTCTAC  
AATAACTTTTTCGGGCATTGTCATCTGTAATAGACTTTTGAGCAGCATCTTGTAATCTTGCCAC  
AAAGTCAGGATATGGCTCTTTAGAGCCTTGCTAATTGAATTAATAGGGAAAGCTGTTCCCTGG  
GTCCTGAATTTTTCCCAGGCCCTGAGGCAAATAGCCCTTACTTGTTCAATAGCCTCATTCTG  
CATCACTGATTGTTGGTTAATGGTGCTCCAATTTGGACCTGTTCCCTAACAATTTGGTCTGCGTC  
TATATTAACAGTGGGCTTAGTAGCCTGATTTTTTCGTACCTGTTCTTGTAAGTCCATCAATCCA  
CCAGGTTTTAACTGTAGATACTGAGAGGATGAAAGGGAAGATTTGGCCAAAATTTCCAGT  
CATAAGGAGTAAGTCTATTTCCATGAGCAATGGAATCTAATAATGTTCTTATATAAGGGGAGT  
TGGATCCATATTGTTTAACTCCTTCTTTATATCTTTAACATTTTCATGGTGAAAGGTTCA  
TCTAGTCTCAGCTCGGGCAGGCGCTCCTACTTGAGTCTCTTCCCAGGCTGTACCAGTTGTA  
AAATTACCAGGAACCGCCATGCCTCAAGATCGCCCTGTTTTCTGGCTTCATCAATGACTGCA  
TGCAGTGCACCACCCTGTCCACTACGTGATGCTGTAGGATTAAGTCTCACAGTGGGCGGCT  
GAGGATACAGCGCCGCGCTCCTGTGTTGCTGGTGAATTAGACGCCATCGCTGTGGGTTGCTG  
GTATGGTGCCGTGCTATTTGGCACAGGACACACCGCTTGAGGTCTGTATTGAACCTCTGAAG  
GAGGCCGATACTGAAGCTCGGTTGGCAGCCGCTATTGATAAACTACCAGCGGTTGGGTCTT  
ATTTTCTACCGGCTGATATTGTGGATACTGTATCTGAGTTGGCATTGCCGGGATAGAGACTC  
TGTCCCTTTCTACTTGATTTTCTCTTGGGGTTTGTGCTTGTCTAACCTGCGTTTGAGGTTGTA  
ATGTTACAGGCATCTGAACCACGGGAGGAGGAGTTGATGGCGATCGTGGTTTAGGCTCTGA  
TGGCCCCAATGATTCTGGACCTCCTTCCCCCAATTTTGATGATTACAGGTATATTATCTCCTG  
TAATTGACTGTAGTCAACATTTTGCCTTGACTGAGCCATTACAGACTCTGCTACATATTTACA  
ATGTGAACTTTCCGTTCCCTTGCTGGGATTCTGTCCCTGCCTCTTCTTCACAATCTGTTACACA  
GCTTTTAGGGGCATCAGAACTGAAACAATATCTTCTCCTGTTTGAATGGTTCTAAAGTTGC  
TTTAATAATGGCCCAATCATTCCATACTGTAAGTGGGATGATTTTACCTTCCCTATTTGCTTGT  
TTTAATTTCTTGCCAATTTTTTCCCAATCTTTAGATCTAAAGTTCCCTGTTCTGGAACCATG  
GGCAGAATTGTTCTATTGTTTGAATAGCGTAATTAGATTTTCTGTAGAAGCTCTAACTCCCC  
CTCTTTTAAAGAAATTTTAAATAAGCTGAGTAAGAGGCATATTTACTTTTCAGTTTGCCCCAT  
CGTTACCTGGGTTCTCTAAGCACACAAGCTTACCGCAAGGCTGACCGTGGACGTACTTG  
GGACTCTCGTGGCTGTCCCTCAATGCTCACGTTCTTAGCGTACCTTACCCTAGAGAAGGG  
CCCCACGCCGGGCGCCAGATGAAGGGGTGGCCTGCCCTCCACACCTGTGGGTATTTCT

Table 4

AGTCGGGTGGGATGAGAGACGGAGAAAAGAAATAAGACACAGAGACAAAGTATAGAGAAAC  
ATCAGTGGGTCCAGGGGACCAGCACTTAGCACACCAAGGACATGCACAGGCACCGGCCTAT  
GAGTCCCTCAGTTTTATTGATTATGATTTTCATTATTTTAN

&gt;1328

NNAGTGCTGCTTGCCGATGCTCATCTCCTCTCCTCGAAAGCTCCTGGAAATCATCAG  
GAACTGGTAGAATGCTCCATAGGGGAAGAGATCTTCGTCTGTTTGGTCCATTGCTCTTAC  
GCTTCTGAGAGGTGACAGCGTGCTGGCAGTCCCTACAGCCCTCGCTTGCTCTCGGCACCTC  
CTCTGCCTGGGCTCCCACCTTTGGCGGCACTTGAGGAGCCCTCAGCCCACCGCTGCACTGT  
GGGAGCCCCCTTCTGGGCTGGCCAAGGCCAGAGCTGGCACCCCTCAGCTTGCAAGGAAGTG  
TGGAAGGAGTGCGTGAGCGGGAACCGGGGCTGCGTGTTGGAGCTTGCGGGCCAGATGGA  
GTTCCGGGTGGGCGTGCGGCTTGGCGGGCCCCGCACTGGGAGCAGCCGGCCGGCCCTGTC  
TCACTTCATCACAGAAGAGGACAAAGACCAGCGAGTACAGGACCAGCTCGGGGGGGTGTG  
GCACCGAATGGAAATCCATGAGCAGCACGTAGGCAAACAGCAGGAGGAAGGCGATGTAGA  
AGACCACATTCCAGGAGAAGACCACGAAGGGGGAGGTGATAGAACGGCCGAGGTACCAAA  
GCAGCTTCTTGCTTGTGCTTGTGACAGGTTTCTTCTAAATGATACAAAGCCACAGCCCACCAAG  
GGTATAATAAACAGACACAGGATAATCTTCCAGTTCTTGGTGTCTCGGGAAATCTCTCCATAC  
CATTGCTTAGAAAGAAAATTCTGGACCCAGCTGGGCGATGAAATGCTGGTCTGTGGCCT  
CCACCGCCAGCTCCAGACAGTTGCTTCCACCCCAAGCTTACAGGAATAGACCAGCAGCTG  
TTCTGCCAAGTCTTCATCGCTGCTGTAACACTCAGTGAACAGCTCAACAGCCCGGGTCTCGT  
ACCTGCCCCGGGGCAATGTCTGTGCCACATGGCAGATCCGCGCCACCACAGCATTCCACAC  
TGTGGACTACCAACAGCCCGGGTCAAGTACTCATTAGCCAGCTCCTCGGACGCAGCATTG  
ATGTCGTTCTTCACTTTGGCCAGAGTCTTCAGAAGCTTGCTGGCTCCAGGGCTGCCAGAGT  
GCAGCCCCCTGGTCTGCTCCCAAATGACTTTGGAGAGTTCCCTTCTTATTCTGAAGAATGGCCC  
AGATGAAGAGAGCTTGCAAGGGGTGCCGAGTAATAGGAGACACGTCGTGGAGTTCTATGTC  
CATCTCGTCCCGGCCATTTCTGTCTTCTTCCGGAAGCCTCTTCGGAAGTTTCGCAACCAGTT  
TCCAGACAAACGTGAGGAGGGCATCATTATAGGAATCTTGGCGATCTGCAGATTCCGGTAC  
ACAAGCGTGCTGAAGTGGTTGGAGAAGAGTTTCAGTGAGGACATCATGGGTGAGAACTTCC  
GTAGGTTCAAGCCATTCTCCAGAAAGAGGCGGACAAACTTGGGTCTGTCTTTATGAGAGCC  
GTAAACATGACTTCTTGAAGGTGAGCAGACTTGAGAACCACCAGCATATGAGAAGAGGCTTT  
GCCGTCAATCAGATCTTTGCTCTCAACCTTGATTCTACCATTTTCCAGCCATGTGACCTGGAT  
TATTGTGTCTTGAGCCTCGGTTTGTCTTCTCCCATCGGCGGTGCTTGGTGAATCTCAT  
CATTGGCTTAAGTCCAGCTGGTTCCACTCCAGCAGAAGCTTCAGCTGCCATTCCAGTTATCC  
TTGTCTTGCTCACTGGTGCTGAAGGCTTTGTATAGAGCGTAGGAGATGGCATTGCTCACAAT  
TTCATCCCCAGCTTCTTCCATTTTAATAACTGTTAATAGGTGAGAACATTCGAGAATTTCTTTG  
AGCCATTTGATCCAATCTCAGTCTCCTCCTCAGGCAGCCGGGACACCGTGCGGGGTAAAA  
AGCGCACCAGCTTCTCCTTGACGGCAGAAGATGTCAGGGCATCCTCCACCTCCACCAGGT  
AGCGATCACATCAGCGATCTGGCCCGAGCCTTCCACCACCACACAAGGAATTTATTTTGA  
TGGAGGTATTGATGGCTTTCAAAGTCTCTTTTCCACCTCCTTGGGCAAAACACACAATGGGG  
ATCTTGCCACCATAGTTGGAATCTTGAATAGTGCGCTCAGAGATATACTTCTTAGCTGATTC  
CGGAGCTTTGCTTCGACAGTGGGATGTCCATGACAGCCATTGTCCACGAGCAGCAATGTG  
TGTGGTTGTTGTCCAGGATATACAGTGGATCTCTTGTGAAGTCATCCATAAGGTACTGGGCT  
AAAAATAGCCCTCAGCATCGCAATTCCTGATGAGGGTGTCCCGGTTGGAGACCATGCCCC  
AAGCTGCTATGCCAATGGCCACAATATTCTCCTCTGAACCTCCTGCTGATGGTGTTATCTCTCA  
CCACCTCCCCGAGGTACTTCATCAGGCCATAATGGGTGCCTCCCGTGAGAATCCAAGCACC  
TTTGGACTGCGCGATGTAGATGAGCCGGCTGAAGATCTTGCGCATGCGCGGCTTCAGGGC  
GAAGTCTTGGCGCCCCCGGTACAGAAATGACCAGGTGTTGGGTGTTTTAGGTGCCAGTGC  
TGGGTGAGCAGCTCGTAAAGGATTTCCGCGTCCGTGTGCGAGGACAGACGTATATACTTCC  
CTTTCTTCCCAGTGCTCAAACCTGAATATCCCCAAAGGCGTCGGTAGGAAATTCCTTGGTG  
TGTTTCTTGTAGTTCCATTTCTCACTTTGGTTGATCTGGGTGCCTTCCATGTGCTGGCTCTGG  
GCATAGCCACACTTGACACATTCTCCGTGGCCTTGGAAATCTTTGGTAAAGAAGACACATTC  
TCGTTTCTTAAAATTTGCTTGAATAAAATTCACCAAGTCGTTTCACTGTAAGACAAGTCTGTG  
CTCCGAGACGCGCTGGAGTACAGGGTCCGGGTGCTGTCCAGAGTGTATTCTTCTGTGCC  
TCATGCTGAGCCTGGCTGCCGAAAGGACATCTTTCTTACTTCTGCAGGCTCCACGTCT  
TCTGTCCACCTGCATCCTCCAACCAN

&gt;1329

NNGAAAGTGACCGTGTGCTTCGGACGGACCCGGGTGGTCGTGCCGTGCGGGGAC

Table 4

GGCCACATGAAAGTTTTTCAGCCTCATCCAGCAGGCGGTGACCCGCTACCGGAAGGCCATCG  
CCAAGGATCCAACTACTGGATACAGGTGCATCGCTTGGAAACATGGAGATGGAGGAATACT  
AGACCTTGATGACATTCTTTGTGATGTAGCAGACGATAAAGACAGACTGGTAGCAGTGTTTG  
ATGAGCAGGATCCACATCACGGAGGTGATGGCACCAGTGCCAGTTCACGGGTACCCAGA  
GCCCAGAGATATTTGGTAGTGAGCTTGGCACCAACAATGTCTCAGCCTTTCAGCCTTACCAA  
GCAACAAGTGAAATTGAGGTCACACCTTCAGTCCTTCGAGCAAATATGCCTCTTCATGTTTCG  
ACGCAGTAGTGACCCAGCTCTAATTGGCCTCTCCACTTCTGTGAGTGATAGTAATTTTTCTCT  
TGAAGAGCCTTCAAGGAAAAATCCCACACGCTGGTCAACAACAGCTGGCTTCCTCAAGCAG  
AACACTGCTGGGAGTCCTAAAACCTGCGACAGGAAGGATGAGGATGGGACAGAAAGAGGATA  
ACAGTCGTGTTGAACCTGTTGGACATGCTGACACGGGTTTGGAGCATATACCCAACTTTTCT  
CTGGATGATATGGTAAAGCTCGTAGAAGTCCCCAACGATGGAGGGCCTCTGGGAATCCATG  
TAGTGCTTTTCAGTGCTCGAGGCGGCAGAACCTGGGGTTATTAGTAAACGATTGGAGAA  
AGGTGGTAAAGCTGAACATGAAATCTTTTTCTGTGAGAATGATTGCATTGTCAGGATTAATGA  
TGGCGACCTTCGAAATAGAAGATTTGAACAAGCACAACATATGTTTCGCCAAGCCATGCGTA  
CACCCATCATTTGGTTCCATGTGGTTCTGCGACAAATAAAGAGCAGTATGAACAACATCC  
CAAAGTGAGAAGAACAATTACTATTCAAGCCGTTTTAGCCCTGACAGCCAGTATATTGACAA  
AGGAGTGTGAACAGTGCAGGGCTTCACACGGTGCAGAGAGCACCCCGACTGAACCACCCG  
CCTGAGCAGATAGACTCTCACTCAAGACTACCTCATAGCGCACACCCCTCGGGAAAACCA  
CATCCGCTCCAGCCTCGGCACCTCAGAATGTATTTAGTACGACTGTAAGCAGTGTTATAAC  
ACCAAAAAATAGGCAAGAGGCTTAATATCCAGCTTAAGAAAGGTACAGAAGGTTTGGGATT  
CAGCATCACTTCAGAGATGTAACAATAGGTGGCTCAGCTCCAATCTATGTGAAAAACATTCT  
CCCCGGGGGGCGGCCATTTCAGGATGGCCGACTTAAGGCAGGAGACAGACTTATAGAGGT  
AATGGAGTAGATTTAGTGGGCAAATCCCAAGAGGAAGTTGTTTCGCTGTTGAGAAGCACCA  
AGATGGAAGGAAGTGTGAGCCTTCTGGTCTTTCGCCAGGAAGACGCCTTCCACCCAAGGGA  
ACTGAAAGCAGAAGATGAGGATATTGTTCTTACACCTGATGGCACCAGGGAATTTCTGACAT  
TTGAAGTCCCACTTAATGATTCAAGGATGTCAGGCTTGGTGTGAGTGTCAAAGGTAACCGG  
TCAAAAGAGAACCACGCAGATTTGGGAATCTTTGTCAAGTCCATTATTAATGGAGGAGCAGC  
ATCTAAAGATGGAAGGCTTCGGGTGAATGATCAACTGATAGCAGTAAATGGAGAATCCCTGT  
TGGGCAAGACAAACCAAGATGCCATGGAAACCCTAAGAAGGTCTATGTCTACTGAAGGCAAT  
AAACGAGGAATGATCCAGCTTATTGTTGCAAGGAGAATAAGCAAGTGCAATGAGCTGAAGTC  
ACCTGGGAGCCCCCTGGACCTGAGCTGCCATTGAAACAGCGTTGGATGATAGAGAACGA  
AGAATTTCCATTCCCTCTACAGTGGGATTGAGGGGCTTGATGAATCCCCAAGCAGAAATGC  
TGCCCTCAGTAGGATAATGGGTAATACCAGCTGTCCCCTACAGTGAATATGCCCCAAGATG  
ACACTGTCATTATAGAAGATGACAGGTTGCCAGTGCTTCCCTCCACATCTCTCTGACCAGTCC  
TCTTCCAGCTCCCATGATGATGTGGGGTTTGTGACGGCAGATGCTGGTACTTGGGCCAAGG  
CTGCAATCAGTGATTTCAGCCGACTGCTCTTTGAGTCCAGATGTTGATCCAGTTCTTGCTTTTC  
AACGAGAAGGATTTGGACGTGAGATAGCTGACGAGACTAACTCAATACAGTGGATGACCA  
GAAAGCAGGTTCTCCAGCAGAGATGTGGGTCTTCCCTGGGTCTGAAGAAGTCAAGCTCG  
TTGGAGAGTCTGCAGACCGCAGTTGCCGAGGTGACTTTGAATGGGGATATTCCTTTCCATCG  
TCCACGGCCCGCGGATAATCAGAGGCAGGGGATGCAATGAGAGCTTCAGAGCTGCCATCGA  
CAAATCTTATGATAAACCCGCGGTAGATGATGATGATGAAGGCATGGAGACCTTGAAGAAG  
ACACAGAAGAAAGTTCAAGATCAGGGAGAGAGTCTGTATCCACAGCCAGTGATCAGCCTTC  
CCACTCTCTGGAGAGACAAATGAATGGAAACCAAGAGAAAGGTGATAAGACTGATAGAAAA  
AGGATAAACTGGAAGAAAGAAAGAAAGATAGAGATAAGGAGAAGGATAAAATGAAAGCC  
AAGAAGGGAATGCTGAAGGGCTTGGGAGACATGTTGAGGTTTGGCAAACATCGAAAAGATG  
ACAAGATTGAGAAAACGGGTAAAAATAAAATACAGGAATCCTTTACATCAGAAGAGGAGAGG  
ATACGAATGAAGCAGGAGCAGGAGAGGATTCAAGCCAAAACCTCGAGAATTTAGGGAAACGAC  
AAGCTCGAGAGCGTGACTATGCTGAAATTCAAGATTTTCATCGGACATTTGGCTGTGATGAT  
GAGTTAATGTATGGGGGAGTTTCTTCTTATGAAGGTTCCATGGCTCTCAACGCTAGACCTCA  
GAGCCCACGAGAAGGGCATATGATGGATGCTTTGTATGCCAAGTCAAGAAGCCGCGGAAT  
TCCAAACCCCTCACCTGTAGACAGTAACAGATCAACTCCTAGCAATCATGATCGGATACAGCG  
TCTGAGGCAAGAATTTTCAGCAAGCAAGCAAGATGAAGATGTAGAAGATCGTCGGCGGACCC  
TATAGTTTTGAGCAACCCTGGCCGAACGCACGGCCGGCGACGCAGAGCGGGCGACACTCG  
GTGTCCGTGGAGGTGCAGATGCAGCGGCAGCGGCAGGAGGAGCGCGAGAGCTCCAGCA  
GGCCACGCGCCAGTACAGCTCTCTGCCTCGGCAAAAGCAGGAAAAATGCCAGCTCGGTCTCC  
CAGGACTCTTGGGAGCAGAACTACTCCCCTGGGGAAGGCTTCAGAGTGCCAAAGAGAACC

Table 4

CCAGGTA CTCCAGCTACCAAGGCTCCAGGAACGGCTACCTGGGAGGACATGGCTTCAACGC  
CAGGGTCATGCTGGAACTCAGGAGCTCCTTCGCCAGGAACAGAGGCGGAAGGAGCAGCA  
GATGAAGAAGCAGCCTCCTTCGAGGGGGCCAGCAACTATGACTCGTATAAGAAAGTCCAG  
GACCCAGTTACGCCCTCCCAAGGGGCCCTTCGGCAAGATGTGCCCCCTCCCTTCTC  
AGGTTGCGAGGCTGAACAGACTTCAGACTCCTGAGAAAGGGAGGCCCTTCTATTCTGAGC  
ACGCAAATAACGGATGCTTCATGTCGCGCAATAAAAGACATTTTCTATGAAGACTTGTATT  
TGGGAGTTTTTTTAAAACCTCGATGGTACTATGGAGTATTTCTGTTGTTGGTATCAGTGCCT  
TAAGCGGTGTAGGCAAAGAAATGGAAGGCCTTAATGTCTTTGCCACTATGTCTCAAGTGTCT  
GTTTCATGGAAGGATTTCCACCCCTGTGACAATCATCTGTTGAGGTGTTTCATATGCTCTGC  
GCCTCTCCACAGTACCAGGAATCTCGGCCCTACTCATGAGTTGTCCGCGGCTTGGTTGTA  
CATCCCTGCACCACTTGCAGTGACAAATTCACCTGAAGTGGAGGATGACGTGCGGCCCTGT  
TTCTCCCTCTAAGTTCTCTTAGCTATGGGATGACATCTTAGTCTCTGGTGGAGGAAAAGTGG  
GCGACATACACCAAAATTTGGGGCTTTCTGGTACTTCACAGCACAGCCATTTGTCGTACTTT  
GTCATCACTGTGGTTTTCTTTCTTTCTCAGCTCTTTGTGACGGGAGAGTCGGTCATCCTA  
TTACAGAAGCTAAGCCATAGTCCAACATTGTTTGGTCAACATGGGGGTCTTTTGTAACTGC  
CTTATGACTCAACATTACCAATAAAGTGATGATCCTGGTCTGCGTTTATACATACGCTTGTTC  
GGTCTGCTTCTGACACGTGGGTTGAGTCACCACAGCTCTGTGTGGGAACGTGGGAGACA  
GGAGTGGCTCCTGCCGGGGGAAGCTGGGCCTGCCATTGGCCCTGTGTCTATCATGAGGGG  
AGAGCTAAGAAAGAAATTTCTCTAGGAAGAGCTCATGGCCAGTACATCCTAGTAATTATTT  
AATTAGTTTTTGTCTGACAGCTTGTGAGGAAGGGCACAGAATGGGACAGAGATAAACAG  
CAGTCATTTTGATCTGCTCTCTACGGTTTTTCAAGTCAGAGGCAATTGATGCTTGTCTAATGC  
ATCCACACACTGATGTCTGACTGGCGATGCCACGCTCCTAAGTAGTTCTGCCATGAAACAT  
AAAAGACAAAGGAAAAGCCGTTACACATCACACAGAGAACATTTTCGGGTCCACAGCGGT  
GGTGGCAGGAAGCTCACTCTCGCGTCAGTATTAGAGTGTGTGTGTGGGTCTCGGGGATCTC  
GGTGGCTCCCATCTTCTTCTTCTTCTGAACATCCTGTATTGTAACCATGGCTGGGGTGC  
TAAAGTGCTGTGAATCCCGATGTGGAAAAAGCTGGAGGTGAAAGCTCAGCATACCATGTAT  
TTACTTTAAAACAGAAAAAAGACATGTATGGATATGTCTATTTTTTTTTTATTGGCACATTGT  
ATTTTTGTGTTGACTTGTGTTTTAGAAATGATGTGTCCACACACGTACCCGTGTCTCTTCTGCA  
TTTCTGTGTCATGGTTCTGTTTCTTAATCACGTGCGGCGGTGTCTAAGTGGTGTACCAGTGT  
ACGCGCAGTGACCTTGGATGACAGTGGCTCTTTCTCACAGCCTCCCTGAGCTGTGAGAAA  
CAGCTTTCTCTGTACATATGCAACTCCTAATAAAAGGCATATTTCTTCTGTTCAAAACACAG  
AATGGGCCCATGAGGACCTCAAGTGATAGTGACCCAATGATCTTTTAAATCCTCAGGGGCGC  
CCCTTAGACTANNNNNNNNNNNNNNNNNNNNN

&gt;1330

NNCATGGTCTTTTTATTTTCAAAGAGAAAATTGACTTTGTAAAAGAGCAAACCTCTTA  
ATATACTATCTACATGTATAACAAATTCATTTTCAGAGAAAACACAATGTAATATGTAAGAGAA  
GTACCGTGTTTTGATAGTTGACTAACACTGACCTGTAATGGTCTACACCCTTCCACTTACT  
TACACTATCTTAGGTAATAAGACTTTTATTCCTAAGTGTGAATTTTACAGGAGGAGAAATCT  
GGCAGATAGATCCTCACCATCATCTGAACACTCGAACTGGACTTCCTTTTCTGAATTGACCA  
GTCAAAGAGAAAAGGAAAAAGAAAAAAATATGACCGGTTGAATTTAGAGTATCAAAGCATGG  
AGTATAGAATAAATTTGTTTTAAAGAGGAGCTATAAGTTGAATGGAAGGAAAAAGTTCTGGA  
AATGCGTTCCATGTAAGGATAGTAATCCCGCGTACCT

&gt;1331

ACTGTTTGCATTAATAAATTAAGCTCCATAGGGTCTTCTCGTCTTGCTGTGTCATGC  
CCGCCTCTTCACGGGCAGGTCAATTTACTGGTTAAAAGTAAGAGACAGCTGAACCCCCCGC  
GTACCACTGTAATCATTATCCCAATGTTATGATTACATTGACAGATAACTCCAGTTTGTAA  
CCTGAACTGATGTTATGGCCATAATATGTTGTTGATTGATGGCAAATGGTGATGTGTGAGTTA  
TGATCCTGTTTTTCTACAATGGTGGTGGAGGCCGGGAGCTTATATGTTTATTTATGTATGAA  
TGACGATAGTAAGAGATGGCATATAATCACCAGACTGATCATATTGGATTCTTTGGGGAACG  
GAGCCGGAAGGGAGTAAACAGAN

&gt;1332

&gt;1333

&gt;1334

&gt;1335

&gt;1336

NNNNNNNGGAAGTAAAACAGTATTTATTGAGTACCTATTTGCCAGATACGGCTAG

Table 4

GTGCTCCACATCCCATCTCTTAATCCTCACAACAACCCTGTGAGGTAGGTAATAATGATCC  
CCATTTTTACAGGTGAGGAAGTAGGCTCAGAGAAATTAAGCAGCTTTCCCAACTTCACACAG  
TGAGTAAGTACATCTATCTGACCCAGAGTTACCCTTTTCTATCATGCCCCCGTAGGATATTG  
CCTGGGGACACCTGACAACAGAAAAGTCTAAGGTTTTTCATCTAGGATTGGGAGTTACCCCAAC  
ACCAGCAGGATGCAGGAAAAAGTAACTGACCGGATGGTTGCCCTCAATCTGTTGATTCTTCAG  
TGAGTTAGCTCAGATTTTGTCCAGGAACAGCTTTCAGAGCCAAAGATTACGTATTGAACCTTA  
CCAAGGCATCTGGTGACTAGAAAACCTCCTGGAAGGTGGTCATAGCAGAAATTGTTGGGAAA  
GTTCTCAGCATAATAAAAGAGAAATTTTTATTTCTTTCATGATCCACTCCTACAGGGAAAAATA  
AATGGCAAATGAACCCATGTATGTCAAACCTCTGTAATAAACACCAGTGAGATCACAGTGTCA  
GGAAATTTGAGCCTGAATTAAGATACCCTTGCTCTTAAACCTTTCTTCTTTGATGTATGTGAA  
GGAAGGGCTGGAGGGCAAAGTCAAAGGAAAAGGCAAAATAAATTAACAAAATGACTGNCAG  
GCAATGATAAATGNCCTCCCCTTCTCCTCCCACCACGTACACTCGCCTTTCTCCTTCCATT  
GGGCTCACACTGCCACCTGCTGGCAATTCCTTGGATCTAATAGCTGATCAGTGGTGTGTTGAA  
AGAAAAGTTTTTCCCTGTCTAGGAATGATTGATTCTCTGTATGCATTTATTTAATAGGGAG  
GAGAAGNNN

&gt;1337

NNAGTTTAACTTTGGGATAAAATCCTAGGACTGGGAATGCAGAGTGCAAAGGGTAA  
GTGTGTATGTAATTTTACTAGATATTGCCAAATTCCTCTCCAGAGGTGGCGCACCATTTTGCA  
TTCTCTTCAGTGGTATTTGATCGGTCCAGGCTCACTATTAGAATATGTTAATGAGCTTCTGGA  
TTTTTTTTTTTTTTTGCAAACCTTATAAATAAAAAGTGGTATGCCAGTAAAGTTTCAATTTACAT  
TTCTCTTCTGAATGAACTGAGCATTTCATTTTCTCCTAGATTCTTAGGAAGCCTTTGTAT  
CTGCGATATAAGTTACTTTCTCTTCTTTCTGTCATGTTGTTTAACTTTGCACTTTCTTTTTAAAC  
CTGCAGTAAATTTTAAATCTTTTCATTGAGTCTTCTGGTTTTCAAATCACATACAGAAAGAAT  
CTCCCGAGTCAGAGGGTGTGACCACAGTCTGTTCTGGTGCTTCTATGGCTTCATCTTTCACA  
TTTGAATCTCTGACGTAGTTGGAATTTATTCTGGGCTATAAGGACCCGACTTTATTTAAGAA  
CAAAATTTTTTAACAAATGTTAACTTAACTTCCTAAAGGCAGATTATTACTGGGACCATGTG  
TGAN

&gt;1338

&gt;1339

NNCACCCACGCGTCCGCCGAGCCCTGAGCGCCGGCGCGGGACCGAGCTGGCGGC  
GGGCGGCGCGCGCCTTCCGAGGCTTCCTGCTGCTTCTGCCCGAGCCCGCGGCCCTCACGC  
GCGCCCTCTCCCGTCCATGGCCTGCAGGCAGGAGCCGCAGCCGCAGGGCCCGCCGCC  
GCTGCTGGCGCCGTGGCCTCCTATGACTACCTGGTGATCGGGGGCGGCTCGGGCGGGCT  
GGCCAGCGCGCGCAGGGCGGCCGAGCTGGGTGCCAGGGCCGCGCTGGTGGAGAGCCAC  
AAGCTGGGTGGCACTTGCGTGAATGTTGGATGTGTACCCAAAAAGGTAATGTGGAACACAG  
CTGTCCACTCTGAATTCATGCATGATCATGCTGATTATGGCTTTCCAAGTTGTGAGGGTAAAT  
TCAATTTGGCGTGTATTAAAGGAAAAGCGGGATGCCCTATGTGAGCCGCTGAATGCCATCTAT  
CAAAACAATCTCACCAAGTCCCATATAGAAATCATCCGTGGCCATGCAGCCTTCACGAGTGA  
TCCCAAGCCCAACAATAGAGGTGAGTGGGAAAAAGTACACCGCCCCACACATCCTGATCGCC  
ACAGGTGGTATGCCCTCCACCCCTCATGAGAGCCAGATCCCCGGTGCCAGCTTAGGAATAA  
CCAGCGATGGATTTTTTCAGCTGGAAGAATTGCCGGCCGCGCAGCGTCATTGTTGGTGCAGG  
TTACATTGCTGTGGAGATGGCAGGGATCCTGTGAGCCCTGGGTTCTAAGACATCACTGATGA  
TACGGCATGATAAGGTACTTAGAAGTTTTGATTCAATGATCAGCACCAACTGCACGGAGGAG  
CTGGAGAACGCTGGCGTGGAGGTGCTGAAGTTCTCCAGGTCAAGGAGGTTAAAAAGACTT  
TGTCGGGCTTGGAAGTCAGCATGTTACTGCAGTTCCCGGTAGGCTACCAGTCATGACCAT  
GATTCCAGATGTTGACTGCCTGCTCTGGGCCATTGGGCGGGTCCCGAATACCAAGGACCTG  
AGTTTAAACAAACTGGGGATTCAAACCGATGACAAGGGTCATATCATCTAGACGAATTCCA  
GAATACCAACGTCAAAGGCATCTATGCAGTTGGGGATGTATGTGGAAAAGCTCTTCTTACTC  
CAGTTGCAATAGCTGCTGGCCGAAAACCTGCCCATCGACTTTTTGAATATAAGGAAGATTCC  
AAATTAGATTATAACAACATCCCAACTGTGGTCTTCAGCCACCCCOCTATTGGGACAGTGGG  
ACTCACGGAAGATGAAGCCATTCTATAATATGGAATAGAAAATGTGAAGACCTATTCAACGA  
GCTTTACCCCGATGTATCACGCAGTTACCAAAAGGAAAACAAAATGTGTGATGAAAATGGTC  
TGCTGCTAACGAAGGAAGAAAGGTGGTTGGGTCATATGCAGGGACTTGGGTGTGATGAAA  
TGCTGCAGGGTTTTGCTGTTGCAGTGAAGATGGGAGCAACGAAGGCAGACTTTGACAACAC  
AGTCGCCATTACCCCTACCTCTTCAGAAGAGCTGGTCACACTTCGTTGAGAACCAGGAGACA  
CGTGTGGCGGGCAGTGGGACCCATAGATCTTCTGAAATGAAACAAAATAATCACATTGACTTA

Table 4

CTGTTTGAGTTTTATGTATTTCTTTATTTTAATCAGGATCTTCTGATAGTGGAATTTTTAGTAC  
ATAATAGAACTTATTTATGGAGTTAGAAATTTGTAGTGTTATCCAGGATTGATTTTCATTTGAT  
CACATCTCACAGTAATTAATATTTTCAAGTTTTTTTTTTTAAACAGCTCTGTGCTAGTTTTTTT  
TTTCTGTTTTAGCCTCATCCCAAATATAAAGCTTTGTGAAGTACAATTAACCTTAATGTACTTGA  
ATGAATAGAACTTGCTACTTTTTTTTTTTTTTTGGGGACACGAGTTTGGCTCTCATTGCCAG  
GCTGGAGTGCAGGGGGTGTATTTCAAGTCTCACAAACCTGGGCTCCGGGGGTCAAGGGG  
AATCTCCTGACATTTAGCCTCCCGAATTAGTGGAATACGGGCAGGCACACCAAGTCCGGA  
ATATTTGGATTTTGAACATGGGGCGTCCCAAGTTGGCCGGGTGGTCTAATCCACTTGAG  
GATTCGCCCCAGGCCTCTAGTGTGAATTCAGGGACAGGGACAGGTATTCACCACGGGGGAT  
CCAGTAAGGGCGGACCATTTTTGCACGGTGTATACGTGAATACTAAAGTAAGCGATTTTAA  
AGAGAGGGCTTAAGACAGACAAAACATATACAAGATACNNN

&gt;1340

NNNNNCATGAGATTGCTCTATATTTTCTTTTGGTACCATCCTTGTCAGGTTTTNTGAA  
TCAATGCTATNACATTCATTTTATAAATGAATTCAGGAGTTTTCTTTATTTGTTTTTTCTTT  
TTTTGGCACTTTGAGGTTCAAGATTTCTTTTCTAGTCTCTGCAATTTGTTTAAGCAAGAATGGG  
ATTATTTAATCTTAAAAGGTTTGGTAGAAATCCCCTAAACAATCTGGGCTTGATGCTTCTTTT  
GGTAAGGGGTACTTTTAACTATTTGTTTCTTACGGTAATTGGTTTGTGTGACTTTATCTAC  
CTAGAGTAAATTTGGCAATTTGCATTTTCTCAAAATAGTTTTTGAATTTATTGTGTAAATTTG  
CTCAAAATAGTCAATTTAAACAATTTCTGTTTTACTATTTCCCTTGTCTATTTAAATTTTG  
TATTTGTGCTTCTCTTTTTTTCTTAAATAGGTTAGCTGGTAGTTTATCTGACTCAACTCCCC  
GCACTACCATCACCAACTTGGATTTATTATTGCCGGACGCGTGGCGGACGCGNN

&gt;1341

ACTTTGACTATTTTTAGCAACAAATTACTTTTGACACACAGCACAATTGATTTAACAC  
TTCCAATTTTGGAACTATTGGATAAATAATGATGGGATTTAAATAAGCAATCCGATTCTACTA  
TTACAGCATAGGGTCTCTTGTAGTCTCTTAGTAAAACTATTGTGACACTTCCTTCTTTCTCC  
AAATATTCGGCCTGGAAAGACCTAAATACAATGCAGGGATTGAATCAAATTCACACATTTTTT  
TTCCTACGGAAACAACAACCTTTCTTGCTTATATTTAACAATACTAGTATAGATTCCTTTAT  
ATTAATAGTTATATGTTATTTTTTCTCAGAGTAGAAATCAGGTTTATAGGCTAAGAATATAGG  
CTAATTTGGAGCATAACACTAACCAGCATGAACCTAAGTGAGTACN

&gt;1342

ccgctgagctGGGACTAGCGAAATCTGTCTGCACTGATCGCAGTCGTCTCAGTTTCACC  
CTCTAGGAATCGGCCTGGGGGTGCACGTGCTACTCTTCTCCAGGCCGGTCCCCGGCG  
CGTGCGCGCATGCCATGTCCATGTCCGCGCCTATCAATAAAGTTGCTCACTTGTTGCCGGC  
CCGCTAGCCCGAAAGGTTGCGCGCGCAGACCGAGAAGTCTCGCGATAGCCAGCCGCGGCT  
GCCCTTGCGCTTCCGCGAGCTGGCGGGGTCCGTGGTGGCGGATCGAGATTGCGGGCTATG  
GCGCCGAAGGTTTTCTGTCAGTACTGGGATATCCCGATGGCACCGATTGCCACCGCAAAG  
CCTACAGCACCACCACTATTGCCAGCGTGGCTGGCCTGACCGCCGCTGCCTACAGAGTCAC  
ACTCAATCCTCCGGGCACCTTCTTGAAGGAGTGGCTAAGGTTGGACAATACACGTTCACTG  
CAGCTGCTGTGCGGGCCGTGTTTGGCCTCACCACTGCATCAGCGCCCATGTCCGCGAGA  
AGCCCGACGACCCCTGAACCTTCTCCTCGGTGGCTGCGCCGGAGGCCTGACTCTGGGAG  
CACGCACGCACAACCTACGGGATTGGCGCCGCCGCTGCGTGTACTTTGGCATAGCGGCCT  
CCCTGGTCAAGATGGGCCGGCTGGAGGGCTGGGAGGTGTTTGCAAAACCCAAGGTGTGAG  
CCCTGTGCCGTGCCGGGACCTCCAGCCTGCAGAATGCGTCCAGAAATAAATTCTGTGTCTGT  
GTGTGAaacacacAACcaCtccccacacaccacacacacaaacactcacacaccacacccacgacgcccacac  
acttctccggccggccgcacacacacacatctttagctacgcgccccatcgggcaccacacccttctcacacaccccccttttgca  
cacaggggggcaaaatctgacgcccgggccccccactatggcgggcagccatatactcgcaatagaccagaggtacacgtgga  
tatggaacgactgggacacccctgctccgcccaggctacacgacactocactcacactacttctctgtgctcttctgcactctataccc  
ctctgaccacactocactacgcttccacacactcgtccccctcacacccactcccgccctccacccctctcacctacgcatgg  
ctaggctctgacttcaccactagctaccactatctcacgacggctctccgctctcacactccccgcccaccacccagcaccaccca  
cccccgca

&gt;1343

&gt;1344

TATAGGGAGTCGACCCACTCGTCCGCGGAGTCTCCGCGGCGCGGCCAGGCCCGG  
CCGACCGCGTCTCGGTCTCCGCGTCTGCCAGCCTGGCTGGCAGTCCGTCTGTCCATCCCG  
CCGCGCCGGGGCAGTCTAGGCGGAGCGGGGGCTCAGGCGGCGGCGGCCTCGACGCGAG  
TGAGTGTCTGTTGGGGTGTGGACCCAGAGTGCTACCTCGCCTGCCTGGGCCTCAG

Table 4

TTTCCACATCTGCACAATGGGGGTGACCATCCCTGCCCTGCTGGCTGCCAGGAGCGGCTGT  
GAGTCTTCAGGCGTGGATGCAGCCTGGGGGAAGCCATAGGGCGCTTTCACAGGCCTGGCC  
TTCACCATGGCGGGAGGGAGACCGCATCTGAAGAGGAGTTTCTCCATCATCCCCTGCTTTG  
TCTTCGTGGAGTCGGTGCTGCTGGGCATTGTGATCCTGCTTGCTTACCGCCTGGAGTTCAC  
GGACACCTTCCCTGTGCACACCCAGGGATTCTTCTGCTATGACAGTACCTACGCCAAGCCCT  
ACCCAGGGCCTGAGGCTGCCAGCCGAGTGCCTCCTGCTCTTGTCTACGCACTGGTCACTGC  
CGGGCCCACCTCACGATCCTGCTGGGAGAGCTGGCGCGTGCCTTTTTCCCTGCACCACCT  
TCAGCCGTCCCAGTCATCGGGGAGAGCACCATCGTGTCTGGGGCCTGCTGCCGCTTCAGC  
CCCCAGTGCGGAGGCTGGTCCGCTTCTGGGGGTCTACTCCTTCGGCCTCTTACCACGA  
CCATCTTCGCCAACGCGGGGAGGTGGTGACCGGCAATCCCACGCCACACTTCTGTCCGT  
GTGCGCCCAACTACACGGCCCTGGGCTGCTGCACCTTCTCGGATCGGCAGGCCCCGGCTG  
CCTGGCCGCGCCCCGTGCCTGCGCTGGCGGTCCAGCTCGTTGCGGCGCGCGCGGGCTC  
CCTGAAGGTGGGGCCCCCTTGTAGCGGCCCTAACCGATGTACGTGACTCTCGTGTTCGCG  
TGAAGGGCTCCCGCCTGGTCAAACCCCTCGCTCTGCCTGGCCTTGCTGTGCCCGGCCTTCT  
GGTGGGCGTGGTCCGCGTGGCCGAGTACCGAAACCACTGGTCGGACGTGCTGGCTGGCTT  
CCTGACAGGGGCGGCCATCGCCACCTTTTTGGTCACTGCGTTGTGCATAACTTTCAGAGC  
CGGCCACCCTCTGGCCGAAGGCTCTCTCCCTGGGAGGACCTGGGCCAAGCCCCACCATTG  
GATAGCCCCCTCGAAAAGTTAAGTGTGGCGCAGGAACCCGAGGTCTGCAGGCCGCTTCGA  
CACCGGCACGGCTCACCCCATCCAAGTCGCAGAACTGCGCCCGCCGTGGCCACCTGATCC  
CCAGCTGTGTCTCCTCCAGGGCCCCAGCCATGTGTTCTGTCGCCCCGTGTGCCCGCTCCTCG  
ATTGAGGTCTGAGCCGACGCCCTTGGCCCTGCCCTACCCCTGCCAGCGCCCCACCCCCAG  
CCAGGGCCCCCTCGCCTTCTCCCTGGACCTGGGGGGCCAGGCGGGGGTGGTGGACGTG  
GCCGGAAGCTGCTGCTGCCACGCCCCCTGCTGCGGGACCTGTACACCCTGAGTGGACTCT  
ATCCCTCCCCCTTCCACCGATTCCGGCACCAGCCCTTACCTGTTTGCCAGCCGTGACCACCT  
GCTGTGAGGCCCCGACCACCCACCCAGAATCTGCCAGTCCCCACTTCTTCCCTGCCACGCG  
TGTGTGTGCGTGTGCCACGTGAGTGCCAAAGTCCCCTGCCCCCCAAGCCAGCCAGACCCA  
GACATTAGAAGATGGCTAGAAGGACATTTAGGAGACATCTGCCTCTCTGGCCCTCTGAGATA  
TCCCGATGGGCACAAATGGAAGGTGCGCACTTGCCCCCTACTATTGCCCTTTTAAGGGCCAA  
AGCTTGACCCCATTTGGCCATTGCCTGGCTAATGAGAACCCCTGGTTCTCAGAATTTTAACCA  
AAAGGAGTTGGCTCCAACCAATGGGAGCCTTCCCCTCACTTCTTAGAATCCTCCTGCAAGAG  
GGCAACTCCAGCCAGTGTTACGCGACTGAACAGCCAATAGGAGCCCTTGGTTTCCAGAATTT  
CTAGAGTGGGTGGGCATGATTCCAGTCAATGGGGGACCGCCCGTGTCTAAGCATGTGCAAA  
GGAGAGGAGGGAGATGAGGTCATTGTTTGTATTGAGTCTTCTCTCAGAATCAGCGAGCCC  
AGCTGTAGGGTGGGGGGCAGGCTCCCCATGGCAGGGTCTTGGGGTACCCCTTTTCTCTC  
TCAGCCCCTCCCTGTGTGCGGCCTCTCCACCTCTCACCCACTCTCTCCTAATCCCCTACTTA  
AGTAGGGCTTGCCCCACTTCAGAGGTTTGGGGTTCAGGGTGTGTGTCTCCCTTGCCCTG  
TGCCAGGTATCCCAAACCTTCTGTTATTTATTAGGGCTGTGGGAAGGGTTTTTCTTCTTT  
TTCTTGGAACCTGCCCTGTTCTTCACTGCCCCCATGCCTCAGCCTCATACAGATGTGC  
CATCATGGGGGGCATGGGTGGAGCAGAGGGGCTCCCTCACCCCGGGCAGGCAAAGGCAG  
TGGGTAGAGGAGGCACTGCCCCCTTCTGCCCCCTCCTCATCTTTAATAAAGACCTGGCT  
TCTCATCTTTAATAAAGACCTGTTTGTAACAGAAAAAACACACAAACAACANNNNNNNNNNN  
NNNNN

&gt;1345

&gt;1346

ACTAGATTGGGTGTGTGTATTAAGAGAAAGACAGGAGTCAAAGATAGTTCCAAAACCT  
TTTGAACAGAACTGGATGAATACTGTTTACTGAGATGGGGAACACTTAGAGAAAAATGCA  
TTTGGAAAGCAGAAATACGATCAAGACTTCCATTTTATACATTAAGCTTGGTATGTTTAATT  
CATAGCTATATAGAGGTATTAATTTGGCAGGACAAAATCATAGCTAGAGATAAAAAATTTAGAG  
TTCACCACTGTAAAGATGATATTTGATGGCACAGGATGGACTTTCTTCTGGGATTTGAGTATA  
CATAGAGGAAAGATGTGAGGATTGAGCACCAGGGGACTTCAACATTGACAGGCTCAACAGA  
GGAGAATTCCCAAGAGGATGAGGTTCCACCTTAGGACCGCCAAAGAAGACTTCCAGACA  
AGN

&gt;1347

NNNNNCATGAGATTGCTCTATATTTTCTNTTTGGTACCATCCTTGTCAGGTTTTNTGAA  
TCAATGCTATNACATTCAATTTATAAAATGAATTCAGGAGTTTTCTTTATTTGTTTTTTCTTT  
TTTTGGCACTTTGAGGTTCAAGATTCTTTTCTAGTCTCTGCAATTGTTTAAGCAAGAATGGG



Table 4

ATTATTTAATCTTAAAAGGTTTGGTAGAAATCCCCTTAAACAATCTGGGCTTGATGCTTCTTTT  
GGTAAGGGGTACTTTTAACTATTTGTTTCTTCTACGGTAATTGGTTTGTGTGACTTTATCTAC  
CTAGAGTAAATTTTGGCAATTTGCATTTTCTCAAAATAGTTTTGAATTTATTGTGTAATAATTG  
CTCAAAATAGTCAATTTAAACAAATTTCTGTTTTACTATTTCCCCCTTGTCATTTAAATTTTGT  
TATTTGTGCTTCTCCTTTTTTTCTTAAATAGGTTAGCTGGTAGTTTATCTGACTCAACTCCCC  
GCACTACCCATCACCAACTTGGATTTATTATTGCCGGACGCGTGGCGGACGCGNN

&gt;1348

&gt;1349

&gt;1350

&gt;1351

ACAAGTATTATGTATCCATAAAAAATTA AAAAATCTTTAAAAATGCATATGGGGGTGTCAG  
TAGGTAAGAGAAAAGAGAACCAAGAGAGCTGCAGCGGGGAGCACAGCTTGCTTTAAACATG  
AGATCCAGCTCAGTGATCATGCGGGGGGAAAAGGCCCGGCATTGCTGGAACCTCCTAATATTT  
AAAAAGATGATGGAACTTGAAATTTTATATTTAATCTTCTCATTTTAAAGTGTTGGCAATGTA  
TTGAAGACTTTGAAGCCTCTCTGCTGGTCAAACAAGATGTATCTGTAGGCTGGATTTAGTCC  
ACAGCTGGCCAGTTTGAAAACCTGAATCCTGCTAGCCTTAATTTAAATTTTTTAAATTTAATTT  
GCTTTGATTCTGCACTCCTGCTCAAAAAAATCTTCAATGGCTCCCCACTGTCTGCAAGGTAA  
AGTCCAAACTTTGTCACCAGTCTTCAAAGCAACCCATGACTATATCCAAGACCCCAAAACCAT  
ATTTCTACCTTATAGCCAGTCTCCATCTTCCACCGCAACCAGAATGATAGTTGAATTGTACTC  
TAGGAAGGAAAATATTCAGAAAGGCACCAGTCTTGCCATGAGGGCTGCTTCTGGGTCCCT  
AAGCTTTTTCTTTCTGTCAGTGGCCTACACTGTGCATGCCTATCAATGAAACCTGTCCATC  
ATTAACCATCCAGCTCAAATACCACCTCTCCACAAAACATCCCTGATGGCCAGCCAAATGC  
CCCTTTGCTCTGAATTTCCATGGGACTTTATATCACTCACATGACACTTACAACATACTGCCT  
TGTTTTGGCATTACCTACATAGCTCATTTTCCCAAACACCTAATAATATTACAGAAGGAAGA  
GTTTGGGTTTTGCACTATATTGAATATCCCTGTAGTGCTTTGTACATAGCANNNNN

&gt;1352

NNAGTCGACCCACGCGTCCGCCGACCGCGGGCGCGGGGGCGCGCGCGGTGACAG  
CCGATCCCCGCCCTGCTGCCCGCCACGTCCCTCACGTACCACTCGGCAGAGGCGCGGGG  
AAACCTGGCGTACTGGCTGTGGCTTCTAGCGGGACTCGGCATGAGGCTGGCGCGGGCTG  
CTTCGCGGAGCCGCCCTTGCCCGGCCCGGGGCCCGGGGCTGCGCGCGCGCGCGGTTCAGCCG  
CAGCTTCAGCTCGGACTCGGGCTCCAGCCCGCGCTCCGAGCGCGGCGTTCCGGGCCAGG  
TGGACTTCTACGCGCGCTTCTCGCGGTCCCCGCTCTCCATGAAGCAGTTCTTGGAATTCGG  
ATCAGTGAATGCTTGTGAAAAGACCTCATTTATGTTTCTGCGGCAAGAGTTGCCTGTCAGAC  
TGGCAAATATAATGAAAGAAATAAGTCTCCTTCCAGATAATCTTCTCAGGACACCATCCGTT  
AATTGGTACAAAGCTGGTATATCCAGAGTCTTCAGGAGCTTCTTGATTTAAGGACAAAAGTG  
CTGAGGATGCTAAAGCTATTTATGACTTTACAGATACTGTGATACGGATCAGAAACCGACAC  
AATGATGTCATTCCCAATGGCCAGGGTGTGATTGAATACAAGGAGAGCTTTGGGGTGG  
ATCCTGTCACCAGCCAGAATGTTCACTACTTTTTGGATCGATTCTACATGAGTCGCATTTCAA  
TTAGAATGGTACTCAATCAAGCACTCTTTATTGGTTGGTGAAAAGGCAAAGGAAGTCCATC  
TCATCGAAAAACACATTGGAAGCATTAAATCCAACTGCAATGTACTTTGAAAGTTATTAAG  
ATGGCTATGAAAAATGCTAGGCGTCTGGGTGAATTGGATTATTAACTTTTCCGAACTAGA  
ACTTGAAGAACTAAATGCCCAATGCAATGAGAGCCACTATGGAACACCATGCCAACAGAGGT  
GTTTACCCCCCTATTCAAGTTCATGTCACGCTGGGTAAAGGAGTTTGACTGTGAAGATGAG  
TGACCGAGGAGGTGGCGTTCTTTGAGGAAAATTGACAGACTTTTCACTACATGTATTCAA  
CTGCACCAAGACCTCGTGTTGAGACCTCCCGCGCAGTGCCCTCTGGCTGGTTTTGGTTATGG  
ATTGCCCATATCACGTCTTTACGCACAATACTTCCAAGGAGACCTGAAGCTGTATTCCCTAGA  
GGGTTACGGGACAGATGCAGTTATCTACATTAAGGCTCTGTCAACAGACTCAATAGAAAAGAC  
TCCCAGTGTATAACAAAGCTGCCTGGAAGCATTACAACACCAACCACGAGGCTGATGACTG  
GTGCGTCCCCAGCAGAGAACCCAAAGACATGACGACGTTCCGCACTGCCTAGACACACTTG  
GGACATCGGAAAATCCAAATGTGGCTTTTGATTAATTTGGAAGTGTGGCCAGAGTTGCT  
CAGAATTGGAGCAGAGCCTGAGACGTATCTGCAGATCCTGTCATCAGCTGGCAAGTCCAGG  
AGACTGTCTATTGAGACTGTGTGTTAGTTATCCCTCAACATCTTCTAAGGTGGCAGGAA  
ATAATATTGGAATAACATTTTAAAGTAAAAATTTTAAAGTTTTAAAGAAGAGTTTTGCCACTTA  
ACAGGGGAGCTTTGTCTGAAAATACACTGAGTTGAAACACTTCATCCTTGAAGGATTATA  
TAAGATGAACAGTTGTGATAAATGTGTAGATTAGAGGGATGTGAATGGGCAGTTAGTCCAGT  
GCCCTCATTTAAGAGGCCAAGATCCTGATTCAGAGGAGGCATCCTTTGCCAGAGCTGCTTA

Table 4

GCTAATCTGACCAAATGTTGGGAAAAATGTCTCACCTAACCCACTATTCTTAATTATGGATT  
TTGTGAAAAACAATAGAACATGTTAATGAGTAATTTATATTAGTTCGATGTATTACAATTTTTTA  
GCTTTAAATTACAGTTTTCTTATAATGTTGAAATGTTTTAGAATCCTTTGAATCTAAGTATTTGT  
TTCCTAAATGAAACATTTGTACAACATTTGATGTTTTTACTTATGAAATATTCTCCTCCCCAA  
GAAAAATTTAACTTTTTCTCTCTATTTAAAAGCTAAGAAATGTTTTAAAGGAAAAATGAAATTAT  
CTTCTTTAGCTTATTTTTAAGGTAAAACAGCTTTTTACTCTGTTATTGTGGTAATGGACAGAA  
TATTACATACAAAAATATTCTGGGAGAGCTTTTTCTAGTTGGTTTTAAATCATTGTGCCACCT  
GAAAGGTTTTTAGATTTTATAGGAGCTAATTTGTCCACCAGCATTAAATGTAACACAGTGTAGT  
TATGAAAAATATATTGAAGGACAGGAAGTGGACACGAAGTGATTTTTGTAACCTGAGCAGTTAA  
TGAATGTGCCAACATTTCTAGGAAGGGACAGCAAGAATATTCTGCTCTGTAGTTAAAATACT  
GGCTGGCTTTTGATGTCTTCATGCTTAATTGTGATCACTTTCTTGCACTGTGATGTTTTACGT  
GAATATGTTGAAGTAGAAGTCTACCATATTATTTATAAAATGTTTTCTGTATGGCAATAAAT  
GAAAAACATGGATCAACCTTCTTTTAAAAATAAATGAGTCAATTTAGCCCTTTAAAAATATAG  
TCCATCCCCTTTTAAATAGAATCCCTCTTCCCACCCATCAAGGCCTCAACATTTTGTAAAGCAT  
CCAAAAAATTGGTAATTAGGGGGCTTGCCTAAATTTCACTATCTTCAGTAGAGAGGAAGTGT  
TTGGAACCTTAGATTTCCAATGTGTATATTCTAATGGAGAAAGCAAGAGGTAGAGTTTGTATGT  
TTGACTTACCTTAGATTTTTATTTCCATACATACTGCAATGATTGACTTGTTCATAAATGA  
AGATCTTCTGTTGTGTGCTTTCAAACACTGTAAATAAATTTGAAATTTGAATAACTTTCCACA  
GTATAACTGN

&gt;1353

&gt;1354

&gt;1355

NNNACCCGTTGAGCACCAAGCAAGATGGCAGCTTCCGAGACGGTTAGGCTACGGC  
TTCAATTTGATTACCCGCCGCCAGCTACCCGCACTGTACGGCCTTCTGGCTTCTGGTGCAG  
TTGAACAGATGCCGAGTCGTACAGATCTCATTAGTCTCATCCGCCAGCGCTTCGGCTTCAG  
TTCTGGGGCCTTCTAGGCCTCTACCTGGAGGGGGGGCTTTCGCCCCCGCCGAGAGCGC  
GCGCCTTGTGAGAGACAACGACTGCCTCAGAGTTAAATTAGAAGAGAGAGGAGTTGCTGAG  
AATTCTGTAGTCATCAGTAATGGTGACATTAATTTATCTCTTAGAAAAGCAAAGAAGCGGGCA  
TTTCAGTTAGAGGAGGGTGAAGAACTGAACCAGATTGCAAATATTCAAAGAAGCATTGGAA  
GAGTCGAGAGAACAATAACAATAATGAGAAGGTCTTGATCTGGAACCAAAAGCTGTCACAG  
ATCAGACTGTCAGCAAAAAAACAAGAGAAAAATAAAGCAACCTGTGGCACAGTGGGTGAT  
GATAACGAAGAGGCCAAAAAGAAATCACCAAGAAAAAGGAGAAATGTGAATATAAAAAA  
GGCTAAGAATCCCAAGTCTCCGAAAGTACAGGCAGTGAAAGACTGGGCCAATCAGAGATGT  
AGTTCTCCAAAAGTTCTGCTAGAAACAGCCTTGTTAAAGCCAAAAGGAAAGGTAGTGAAG  
CGTTTGCTCAAAAGAGAGTCCAGTTCCTCCTCGGAGTCTGAGTCTTGTGATGAATCTATCA  
GTGATGGTCCCAGCAAGTCACTTTGGAGGCCAGAAATTCCTCAGAGAAATTACCAACTGAG  
TTATCAAAGGAAGAACCCTCTACCAAAAATACAATGCAGACAACTGGCTATAAACTTGGC  
TTTAGCCTTACCCCCAGCAAGGGCAAGACCTCTGGAACAACATCTTCCAGTTCCAGACTCTAG  
TGCAGAGTCAGACGACCAATGCTTGATGTCATCGAGCACCCCGGAGTGTGCTGCGGGTTTC  
TTAAAGACAGTAGGCCTTTTTGCAGGAAGAGGTCTGTCAGGCCAGGGCTGTCATCACAGA  
CTGCAGGTGCTGCTGGATGGAGGCGTTCTGGCTCAAATGGTGGTGGACAGGCTCCTGGTG  
CTTCTCCCAGTGTGTCTCTCCCTGCTAGTTTAGGAAGAGGATGGGGTAGAGAAGAGAACCCT  
TTTTCTTGGAAGGGAGCTAAGGGACGGGGCATGCGGGGGAGAGGTGAGGACGAGGGGCAT  
CCTGTTTCTGTGTTGTAATAGAAGCACTGACAACCAGAGGCAACAGCAATTAATGACGT  
GGTAAAAAATTCATCTACTATTATCCAGAATCCAGTAGAGACACCCAAGAAGGACTATAGTCT  
GTTACCACTGTTAGCAGCTGCCCTCAAGTTGGAGAAAAGATTGCATTTAAGCTTTTGGAGC  
TAACATCCAGTTACTCTCCTGATGTCTCTGACTACAAGGAAGGAAGAATATTAAGCCACAATC  
CAGAGACCCAGCAAGTAGATATAGAAATCTTTTATCCTTACCTGCCTTGAGAGAACCTGGG  
AAATTTGATTTAGTTTATCACAATGAAATGGAGCCGAGGTAGTGGAGTACGCTGTGACACA  
GGAGAGCAAGATCACTGTATTTTGGAAAGAGTTGATTGACCCAAGACTGATTATTGAATCTC  
CAAGTAACACATCAAGTACAGAACCTGCCTGAGTATGACCTCTCCACCTTATAGTTTATGAAT  
GTCTTGTTGTGAAAGTGACTATAACCCAACTTTTTTTTTTTTTTAAAGAGGATTTGGAAGTT  
GTATGGATTTTTTTGTTATCTTCACTTTACTGCATAGGAAACAATCTACCTCATCATTTAAAT  
GACATGGGTGTCGGTTTTGTAGATCTTTGGTTTTTTTGTGAGTTTAAATTCAGTTAACAAAT  
GTAAACATGACATTCCTGTCAGATATTGTTGTATACCAGTATGGTTTCTTCTTTCTTTAA  
TGTTTTTGCCATCAAGTAGCAGTCGTACAGTAGGAGTTTATAATACCAAGAATGTGCTGCGT

Table 4

ATCTTGTCTCAATAAGTTTTAAGTAACATTTAAAAATATTAAGCATGTTATTTGACCTAATTTT  
TTAGCATTTGAGTTGTTCCATTAAATGGAGCATCTTGTAATTTCAAGTATTTTATACTTGCAA  
TTGTTAAGAGTTAACAGGTAGTTGGATTTGTCGCAGACAATGAGTTAAGGAATCCTTTCACGT  
TTTTCCCAACTTTAAAAATTAAGGATTCTCAGGTCCCTGTGTAGAGCAGTGAAAATAAGATGTG  
CGTATGTGTGTATGCCTGGAGAATTGGTGTTCACCTCAGTGAGAGGATTGGCTGTGAGC  
TTCAGACCAGGAAATGTGTCATCTTGCCAGGCACCTGGCTGAGTGTGCTGGAGTGAGGATC  
TTGAACAGAACTTCTTTTCTGTTATTATTCACTACGAAGCTAAAATGGCCAAATATATACCG  
TGAAAATTGGTTTTCATTTAACAAAAGATCAGATCCCTCCTCAGCTGTACACATTTTAAATAA  
AATCATATTGAACTAAAAAAGTAAATTCTGCGNNNNN

&gt;1356

&gt;1357

&gt;1358

&gt;1359

&gt;1360

NNAGCTGCCGATACTACTACTAAATTCGCGCCCGGCTGCACCAAGGATTGGCCCAT  
ACCTGATATGATCCCTTCCAGTGCGGTTGCAGGGAATCTCTTATTCGATGTTGTTTCAGCCA  
ACAACATCTCCAGGTTGTAGGCCATGGTCTCTGTTACCTTTATCTCCCTGGAGCTCATTGCG  
AACGGAATCCTTTATTAATTTGGCATTATGGTAGGAAGTTTTGTGAGACCTTGGCAATAATG  
GAGGATATCACCTTTAAGAAGTACAGGTTTATAAGCTCTTTTATCTAGCCACATAGGCCTTCT  
TGTTATTATTTCAAAGAAAGAGACTTGACGTTTTATGAGTGGGGTGGATTGTAGGTTGAGCA  
GACTAATGGGAGAGGTGCTGGCTAGAGAAAGTAAAAATTTCTGTTAGCTTTGCATTGAGC  
TTTTAATATCATTTGTTTCACTTACCAGTTCAGAGGATTGGGGGTGATGGGCACAACAGAAA  
TGATGGAATATAGGCCAAATGTTACAAATAGATAAAATTACCTGACCAGTGAAGTGTGTTCT  
CAGTCGCCATGGAGCTCAGANNNNN

&gt;1361

TTTTattTTTTTTGAAAAGCTAGTAGTCTATATATCTATATATCTATCTATATaaaCtAcTA  
GCTTTTGATAGATATTGTGTTTACATAGTCCACAAGTTAAATGCAGGTATCCATAAGAAGAGC  
ATTAACAATAAAAAATACAATCTGTGTGTAGCCAAGTACAGAGACTTAAATGGTAAACAGCA  
AAAAGGATCTCACAAAAGTACAAATATACAGTACAAATTGATTTATTTAAACAGTTACAAAA  
AGCACAAACAAATAGAGATTATCCTTAGAATTATTAATGCTTTGTTAAAGATCAGGTAGGATTA  
GAGGGTAAGAAATGGTATTGGGTGGAGGGAGCACCTGACTAGTTCTAAGGCTTTAGATACA  
ATGCAGTTGATTACATATTAATTCAGCCATTACATACTGGGGATAGTAGATGGGGGATCAGTA  
ATTTATCTACAGGGAACCTCCTACACAGATCCATCCAGACCTCCCCAGTGCCATCCTTCTCCA  
CTCCTTAGGACCCTAAAGCCACCTGGATGACAACATTCCCATCCTTTCTCCACCCCATTCCC  
TATCCGTATATTCTTCCCTCGCCTAAGGTGCTGTGCAAGCTGAGAGCAGTCTGCTCTCTGCA  
GCTGGATCATATACTGTTTTGGCTACAGGGATCCTGTGTGACTAAGAAGGTTGTAGGGGACA  
GCCTTATTTTAATACTTTAAGTTAGCCATGAGTACAGTCAGTCCCTCCCCAACACAATCTAG  
ATTCTCTTGAATGCAAGTATCAGTCAAGTGAGGGATCAACCCTGCCTTCAGCAATACCAGCA  
ATGCACTAACCCTCACAGCTCACAACTACGTGCAAACTCCCTGCCAGGGGGTGGGTGTA  
AAACCCTGTGTATCAGCTCACACTCTTTCTCTGAAGAACCTCAGTCCCCATGACAGTCATA  
AAGACAAATAAATGCTTGCAAGTTTGACAACAGGTAAAGGCACATGGGCTGCTGCCACACAC  
ACTGCAGGCAAGAACCCAATTTGAGGCCATCTTCACTGCTGGGCATTTGCAGTGGAATGGC  
TTTGGGATCACAAAACCTTTGAGTTCGCAATCTACCGGGGGGATCTAGGTTTAACTGGAGAAC  
TAATAAAGAAACCTTTAGTGTGAAAAGTGCAATTTATGACTATTGTTCTGCTGGGGAGGCAG  
CAGGGCAAACCTCCAACACCTCTCCTCCTTCCGCCCCAGGCACTGTGCATAGTCTGCAGCTA  
AGGAGAGAGTGCAGTCCAGTCTAGCATCTCTGGGGCCAGTGTGCATCATAGGCCAGACCAG  
GCTTCTGGTCCAAAGATGGATCCTAGAGTTGAAAGAGCAACTGACAGCTGCAAAGACCCAG  
ATGCTTATTTTATTATTGCATAATGTGgaGACCTTCCcTACCCCAAGGAAAGCTGGAGAGTGA  
AGGCTTCCAGCAAAGGGCAAACAGGTTCTGATCGACATCCAACCTAATAAGGTTCAAGCTC  
CTCAACTGTAGTGACACTTTTGCCCATCTGGAAGGTACTATAGCTTCAGTGTGGTTTAGTAA  
ACTTAGCCTAGGAGGCCAAGATGTCTCCCTAAACCTTAGTCTCTGTCTTACTTTGTTTA  
TAAGACTGTGACCTAAGTCCCATGGCCAAATTCATCGACTAGGTTATCTTTACTCCAAATGGA  
CCCAGGCCTTTTCCAGTCAATCCATGTCCAACCCTTCATCTCCAGCGTGATCACTCAACTC  
TTCAACATGCCTGCTTGTGCTGCAGGTTTAAACCACACCACCTGTGCTTCCCCCTAAATC  
GCCCATGATGCCCGCAGGTAAAAATAAACTAAACCCCACTTGAGGTGCTATTTCAAGCCAAA  
CTTTAAACCCTCTCCGAACCTCAGAATCCACCTAACTGGAGCTGGACGAACCTTCACTGGGAT

Table 4

GCTGGCATGGGCCCTAATGTGGTTCCcTTCATTTAGtTTTTaaacAGGATACaaGATACCACAAA  
GGAAAGAAgTTAATacaacAGAAGACAccactagtagaaacctgctgtttctccctcacagatagtcagacattggagc  
caaagggcTCccaaCAGCACTGaaGccTTATcccttggATTTACCAGCCCACCAGCAGCATTTCATAC  
CATCCCTATCGAACATGACTTCGCTATAAAATAACATGGCCTAACACAGGTAAGAATGAACC  
GGACGCCTACACTTAATCTACATGGCCAAAGACATGGAAGGATAGGGAGCTGTAGAGGACA  
GCAGGCAGGACAGTGAGCGGACAGCAGCAGTGCCAAAGCAGCGCAGGGCAAAGCCCTTG  
GTGTTATGACCAACTGGGACCAAGAATATAGAAGGACCAGCCCAGATTGGCTGGGGGCCCT  
CCCTCAGGTACAAGTACTCAGCTCTGAACTCCCAGAGCCCCTTCCCCCATGCCACCTCTTC  
CTCATGTATACTAATCTTGATAGGAATGATTCAAGACTTGGCTTATTATCCATCCATGACTGG  
GTTCCCTATTCCCAAATTGGTATACACATTTTTATACAGCGCCAGACAGTCAGCAGTCCTCC  
TTTCTATTCTAAGAGCTGGAAATGTCCTACTGCTGACAAGGGACAGGCTCTGGCCCTTGTC  
AACTGCTCATTCTTAAAAAGTTGGCAACTTCCCCTAAATACTCGCTAAAAACTGCTCTCAT  
GTCTCCTGCAAACTCAGGAAATTCCTATAAGGAAGAATGGACACACCACAGGTTAGTCATAT  
TTTTCATGCCTGGAGGAAAAGACTAACTAGAGGTTAAAGGCAAGGGGGAGGCCACAGCTC  
TGACCGAGATTTAGAGCACAGAGATTCTTTTCTGGGGACCATATTTTATGACAGATACCTTT  
GCAGCTCAGCAAAATCAAGTATTAATATGTTATATATGCATGGAACGATATTGTGGTATTACA  
GGAAGTCTGGTATTGCTTCCAGCAAGAGACAGCAACAGAAAGGTCAGGGCCCAACTTG  
CCAGGGTCTCAAGAATTTCTTTCCAGAATTCAGTGGAAGTTACCAGGTTGGAAAGTCAC  
AAGTAGCCCAAGTGGAAGGTGATTTGATCTAACTAATTGGTCTGTATCTGGTTAGACATAG  
GTTTGCCCCATAAGGAGAAAGCTCAGCTTGTGTCTTGCAGACACTGCTTGAGCATCTActgtg  
tactgtactaaatcagttgatgagccttctatgaggaaggacgctgtgagaaacccatgaaacaatgaactctaggaatgagt  
gctcatgaaacagccagagatgagccttctcccaaggccttctcatttgaggggattctcaagactcgtccaccaggggccccatct  
gtagggatactagccagagaaagcagcattcagagaaatcggtgtacagaggaaggataaagatatgatcccaaatgcagtac  
aaatgttggcgtctggttctgacacaaaccagatactgaagcactcacggtcaggtcagcaacctcttctgatggacccccatgagctga  
ctgaccaggcaaacgtgcttcaaggaatgaaagagtggagggttagggctgtagcaaacagccagttcagtcactctgttcccca  
ggagtacaaccttagcacctgaacactaagaatgactccattctcagaacttcccactccccaggaggtagGTAAGATTATT  
TATCCCCATTGGCAGGTGGGGAGGAAGTGAAGAGCCAGAGGTCACGAGATTGCCCCAAA  
GTCTTTGACAGCAGAGATCAGACCTCAGAGGTTTGGACTCCTGATGCCAGGCCAGGTCT  
CGGCCAATCCAAGTATACCTTATAAAGGACACGCCAGGATCATAGCCTGGGAGAAGTCTAAC  
CAGAGAGCTGCGTGGACAATACCCTGAGTTGCCTTCAAGAGTCTAAAGACCCCCAAAAAACA  
AACAAAAAACTTACCCACCTGAAAGCTAGTGGGGGAGCCTAATTCCCAATACCCAGTGGAA  
CCCCACGCTGAGCTGATGCTAAAAGTTGTGAAGAAAAATGTGGGATTAAGACATTGGTGG  
GGGGTAGGGGGGTGCCAATGCAACCAAGATTGAAAATACTTTTTGCAGAGGAATATACCA  
ACACAAAATGACATCTATTAGGTACTGAAATGTTATCAAGACTATCCTAGAATCTTAGAGCT  
GGTGGTGGGAGGGGATGGCTTGGAGGCACCAGAAATGCTGGGAGAAGCAGTGGAATAAGAC  
AGGAGGGGCATATGGGACATGTGAAAATGCCATGATGGGCACTGCCCAGCCACGCATTGCG  
CCTGgcccagggCATAGTTCCCTTCTTGTTCACCAAGctGTTggcagtggaagtGGAGGGGACA  
TGattttgagattttaAAAAtagagATTATAgcTGAAGGggaaccaGAGAGACCCCTACCCAccaaaaacT  
AgaGGtcTTGGtCAGagtggaacAAaacCAACTTTGCAGACAAGGAAAaggcAGtgcagCTACAAATgaGG  
CCCAGGTCACGACACCATGCAgcGGTCAGCGCAGCAgaaGGGTGGGGGTGGCGCAGGCACT  
TGGGCACAACACAGACAAAGGTGGGGGGTCACTGCctgGAAAAAGGGTctACTAGTTCTaaagT  
caccattaccAGCAAGATTCTGTGAGATTtCAAAGTGGGtctggcaTGCTGAgttgaaggaGCTTTGTTAG  
GTGAGCTACCTTTCCagaGGGCCTGCCTAGAACCCAGTCAGCCTGGCTATCAAGTCTTTCTC  
CCAAAGTCCCCTGACTGAGTCCCTGGCAAGGTAGTACTTCActCTGAACCTGAAGGGGCTC  
TCCCTCCGGGCCCCCGTGCTGCTAGAAGCCTTGTAGGCAGAAATGGTGAGGAGAGATGGGG  
AAGGGCTATGAAGCAGAGGATCAAGCAGAGTCCTGCAGATGAGAGTGCTCCTCCCCACAC  
ACCCAGCCATAGACATctggAACAAAATCACCCTTTAAAGTGCGCATCTCTCACAAGAAGGGTT  
CTGGGTGGGAACCCctTATTTCACACCTTGGGGCCTCCTGCCCTTCTACCACAAAAAAGAAA  
AAAAACTTCTGACAGTTTAACTgctacTATAAGCTGTGGATCATCATTTTTggcTCTTCTTACTC  
CCTCCCCggaAcgcGTgggtcGACTC

&gt;1362

&gt;1363

&gt;1364

&gt;1365

&gt;1366

NNNNNNNNNAAATTTCTATTCTGATAGCAATAATAAGAAGTAGGAAATTTACATAG

Table 4

TCAGCAACCTAACACTGTGAGAAAGAATCCAAGTAGCAGGTCATTAAAAACAGATGGCATTTA  
GGAAAGTAAACTTATTCAAAAACATATTCTTGTAAGTAAATATGTACCACAACGTTTCTACTCTA  
TTGTGTAAGCTTTAAATACAAAATACCACAACCACTCCCGGACTCCTCCATTATTTTCAGTAA  
TACTGGCTGCCCTAGTTTTTCAGGATACATCATGCAAATAAGTTCTTTTATTTTCAAATTATT  
TTATTCCTAAAGTATCTTTAATTTTTCTTTTTGGTTATACAGCTTATAGAATAAACAAGTCACAA  
GAATCTTCATTTGTTTCTAAAGTATATAATTCTACAAAAGTTGTTTTACTCAATGTGAATTA  
TTTGAAGTCTAAAAAATAAAAAAATTTTAAAAAGTAAAAAATTTGCAAGTCATTTAACTTG  
GTGTCTTTTATATTATCTTCAGATGACAATTGCTCTCAGATGACTATTAACTCAAAGATGCAA  
TACAGTAAATCTTCCTTTCTTTGTAATAATTACTGTTGTTCAATTAGCAAGAGNN

&gt;1367

NCCGGTCCCCATTTTTTTTTGAACCACAGTCTCACTCTCACCCAGGCTGGAGTGCA  
GTGGCACAATCTCAGCTCACTGCAAGCTCCGCTCCTGGGTTACGCCATTCTCCACCTC  
AGCCTCCCGAGTAGCTGGGACTACAGGCGTGCGCCACCATGCCAGCTAATTTTTGTACTT  
TAGTAGAGACGGGGTTTACCCTGTTGGCCAGGATGGTCTCGATCTCCTGACCTTGTGATC  
TGCCCGCCTCAGCCTCCCAAAGTGCTGGGATTACAGGTGTGAGCTGCCGCACCCGGCCGT  
TCCCATTTTTATTGGTGCCAACATTTCAAACTTCATACTGTTTATAAACTGATTTTCTGGTT  
ATTTCTACTGTAATCTCTCAATATTCATAGAAGTGAAGAAATAAGTCTGACAACACTAAAGAA  
ATTTCTTAATACTATTATTAGAATAGTAGAGGATAAAAGATAATGTTATCCAGTTACAAAGG  
AATTTGGATGATAATTATAACTTAATGTTAGAGATGGTAAAGCTGCACTTACTTGAACAGCCC  
AAAAGCATTAAAAATCTATTTCCAGAGGAATGTTTTGCTATGTAGGGAAATTTGAAGTAGTTT  
TTGCTAAAAAATTATTTCTAGAGTTGTGTTATTCTTAGCAGTAATCTTGGCTAGAAATGTTTT  
GTGATTTATGCGATTAAACGAAATGATAAAGATAAAACCATATTATTAATACCTATATATCAC  
AGCTAAGTAGGAGAAAGGGAGACCTTTTTATTTTGTTCAGGTAGGAGTATTTCTTGTGATTT  
TAGAAACAATTATTTTTCCCATTTATTTCTTATGAGATTAGTTGTTTCAAGTAGGAGACAGAAAA  
GTTCTGTTTTGTTGGAATGTAGGTTTTAGATGTATCTTTCACTCAGCTCTCAGTCACTAGAC  
TATTTCATATTTTTGAAATGTTTTGAAAATTATGACTAGCCCATTTTTGTCTTTATTTCAAC  
ATACTATCCTCTGAACACATAAATAAGTGAATAAGATAAAAAATATCTTTACCTTATTAATATTA  
TACATACTTGAAAAAATTTTCATTTAGAAACCTAGTTTCAAGTCTGAGCAAATTTACAAGTGAC  
CTCTGTAATAAATGGTATTGATAATCAGAGAATGTATTTTCAAGTACTACAGTACAATATATTA  
TGAAGCATGACCACTTTATTTTGAACCTTAGCAATTGTATTGCTGGGGTTTATTGTATCTGTA  
GCATGTCAGTATTATTTTCACTGATTTTATAATGATTTTTAAAAAACATATCTATTTGGAATAA  
GATACAGCAACAATCATTGCTACTGACTTGTCAACCCCTTAGTTACACTGTATGATCCACAT  
ATAACAAGATACAGTGGAAATGGCCCATACAGTATATTACTGTTGTGTGATGATGGGCTTTGG  
AGCCGGTTGGTTTGAAGGCTTTGTCTTCTTCTGGGCTGGCAGAGTTTCTCCCTGGTCCCCC  
TAATTTTTCCCTTTGTTCTTTTTCGCGGGACAGGTGTTCTGGGGCGCGCCCCCAATTCCT  
GGCCTGTTTTACACAACCTCCCCGGGCGGTTGAAGCCCCCTTGAGCCGTGAAAGCGCTGGA  
GNN

&gt;1368

ACATATGATGGGGCCAATGCACAATACTTTTATCACAATCAACTTTTTCTTTGTATCC  
CTATTTCAATGAGCAGTCAGTCTCAAGAGGTTACTGCATTTTCACTTCTTTCTGGACATGGGTA  
CTTGTGATCACACTACGGGAATCTCTGTGGTATATACCTGGGGCCATTCTAGGCTCTTTCAA  
GTGACTTTTGAAATCAACCTTTTTATTTGGGGGGGAGGATGGGGAAAAGAGCTGAGAGTT  
TATGCTGAAATGGATTTATAGAATTTTTGGAATCTATTTTTAGTGTTTGTTCGTTTTTTAACT  
GTTTCTTCTTTGTGCAGAGTGTATATCTCTGCCTGGGCAAGAGTGTGGAGGTGCCGAGGT  
GTCTTCATTCTCTCGCACATTTCCACAGCACCTGCTAAGTTTGTATTTAATGGTTTTGTTTT  
GTTTTGTTTGTCTTCTTATTAACCCCTTCCCCAGTTTTTTTTTATACTTTAAACCC  
CGCTCCTCATGGCCTTGGCCCTTTCTGAAGCTGCTTCTCTTATAAAATAGCTTTTGCCGAAA  
CATAGTTTTTTTTTAGCAGATCCCAAAATATAATGAAGGGGATGGTGGGATATTTGTGTCTGT  
GTTCTTATAATATATTATTCTTCTTGGTTCTAGAAAAATAGATAAATATATTTTTTTCAGG  
AAATAGTGTGGTGTTCAGTTTGTGTTGCTGGGTGGTTGAGTGAGTGAATTTTCATGTGG  
CTGGGTGGGTTTTGCTTTTTCTTGTCCCTGTTCTGTTGCTTCTGATGGGGCTGGAAT  
AGTTGAGGTGGATGGTTCTACCTTTCTGCTTCTGTTTGGGAOCCAGCTGGTGTCTTTGG  
GTTGCTTTCTCAGGCTCAGGCTGTGCTATCCAAATACAGTAACCACATGCGGCTTTTAA  
AGTTGGGCCAATTTAAATCACATAAGATTTACCATTCCTTCTCAGTTGCACTAACCACGTTT  
CTAGAGGCGTCACTGTGTGTGGGTCCAGGGCTACTGTACTGACAGCGAGAGCATGTCCTCC  
GGTTGGACAGCACTATTCTAGAGAACTATGCTGGCGTGTCCAGTCACAGCCTCAGCTGTGC

Table 4

TGGGACGACCCTTGTCTCCCTGGGTAGGAGGTGGGGGAATNGANNCGGGGNGTGNTTGTG  
TNTGGTGTGTGTCAGAGGATTTATTTAAAGTATTATTGTAATACAGAACTATGTACATTTTTATT  
ACTATACCGTATTATCTTACAAATATGATTTTGAAGCATGATAAATGTATAAATGTAGCCAAC  
ATGTGCAACTGTTACATGAGGGGGCCAGAGGCACTCATGGGAAAATCGGCTATGGGTTCTTT  
GTACACACCCAAGACCCATGTGGAGGCATCTGATTATGAGGCCACGCTCATATTAAGGGGA  
TTTTACCCACATGATCAGCTGGCTGCCGATTCTCACTTGAAATATGGCTCTGCCGCTATTGG  
CGATCATTTCTACGGCCTTTACCCTCCGCATTTACCTGTATTTTTCGAGTTAGGAACCTCTCA  
GTCCN

&gt;1369

NNNNNGGTTTAGGCATAAAGTTTATTCATCCAAAAATAAAGATCCCCATATTTCCATC  
TACTATGAGTTTTCCATCATGCTTAGTATTAACCAATAATTTATACTCCACTACTGATACTTGC  
TAATTGAATTACACTTCTGATGATCATTTTTTTTTTTTCAAATGACATAGTGAGAGTTATGATCG  
GTTACTTGGGTTGTAAGGATTGAAAACATACCTAGATCATATAAATTTGTGAAGGTTTTGCCA  
TCACAAGCATTATAGGGAATAATGAACATCAACTATCCTACAGCTAAACCTAATGAAGACCAA  
ATTGCCCTCCAAGGTCAAAACAATATTTCTTTGTGCTCAAAAGTGGTTCACATAATTGATGCTG  
CATTGACGCTGTCTATAGAGATTCTAGTTTTCTCCACATTTTCTCTATTTTTCAATTTCTTTCT  
TTTCACTGGGGTCTATTGTTCTTTAACAGAAGTAATGGCCTTTTGTAAATATATAATTTTCACG  
TTGTAAGCATTCTTTCCAAGCTAGCTGCCCATCATCACGTTTTGGCTAGTCCCAGTCTCTGCT  
CATAGAACACTTGTCCACACTCTAAATCTCTCTGTTCTCCATAGCCCCCACTCATCTAATTC  
CTATAGTCTTTTAACTCAAAGCCTTCAACTTATGTACAGCTTTCTCTGCCTCACGTTTCAAGCT  
TAATGCATCATCTTAATTCATCTTTTCGACATCTATTTCTACTACATGCTGCTCTCTTTCTCTATC  
TTATATCTCCAGAATATGTTTTATTTCAACAAATCGCTAATCTGTGCCAGGCATTGTTATTAG  
CAAAATGATAAGCCCTGCATGTAGCAAAGTTCCTGCCTTCACTGCATATGCATTAACAGCTCT  
GATTAGTCCACTTAAAAACCATTGTTCTGTCTGTCGAGAACTCCAN

&gt;1370

&gt;1371

ACTGTCGTTTTCTTCTACCTCGTCCTCACCCACCCCGAGTGAAACTTTTTCGAGTG  
TGAACCTTACTTTTTTCCCGTTCTCCTCAAGGCAGTTTGAACGACACAGGTTTGAAGGAATA  
GTTAACTCTCCAGTATTATTGGAACATCTGGACACCACCAACAAAAAATCTTAGAAAAGGGTC  
ATTTAAGGCCTATAAAAAGTGCCACCTTTCCCGAGAATTAATTCAGAGAGAAAAATCTTATCTG  
CCTCCTGGCAGCTACAGCGCAGAAAGN

&gt;1372

&gt;1373

&gt;1374

NNAAGACCTGTAGACTCAAGCACTTTCTCTGCTTTTTTGTATCTTATCTTGGACACTT  
ATGCTGAATTATGTTCTTATTATTTTCACTGGTTATAAGCTATTCCTTGTACATAATATTTAAAC  
TATCCAAATATCCAGCATACATTTCCATGTGGCTGCCATCGGCTGTTGATGCCATGAATGAAA  
TGGCTGGTTAGAAAGCCAAAGGTCTTCTTTTTTCAATTCCTAATGAATAAGTAAATGCCAGA  
TCTCTTTGGTCTCAAAGCAAATTGCTCTGATCAGATCAAATATCTATGTAATGAAAAGAGACT  
TACTTAAATTTGGGATTCTGCTTAAACTTTAAGTTGAATTTGACTGTAGTCATTCTTTTATA  
TATATCTCTGTCAAGGTATGACATTAATTACCAGGTGGTATTATACTCTACTTTGAGTTTGGACA  
TCACTTTCAGTTAAATTTCTGTTGTTATTGTGGCTTTTTTTTTTTTTTAAACCCCACTGAAGA  
TGGAAGTAGAGCAGTCTGCCATCTCCTGCTGTTCTTTCTCTGTGCCCCCTAATTGCTTGGTA  
ATCTAAAATTATTCTGACTTTCCACATACTGTCTTTAAAAACCAATTGTAGCAATCTGCCCGCC  
TCCACCTTTAAGCTAAATCTTCACTGTGCTGGATACATAGACACTCGATAAATGTGTGATG  
ATAGTTCTAAAATAATTATGCTATATATCAGGGTCTGTATTTTTGAGCAATATCATTATTCCTA  
TGCTGTGATGTTAAATGGAATTTATTTTACACTAGTAATAGACTGCTTAAGTGGCTGATTTGAA  
ACCTTTCTCTAAAAAACAACCAATCTGGCAGATGAGTGACACAAATTCATTCTCTTAAAGG  
ATAGAATTTCAAGTTAAGGATAAGGCACAATAAATAGGCACATAGAGGACATCTGTTTTGTT  
TTTGGTTTTGGTTTTGTTTTTTTTTGTCTCTCTGACTAGCTAAACTGCCAACTAGAAGAATGGT  
TGTTATGTAGTAACTCAGAAGAATCTTTTAAATAGTTTCTTCTTTGTTTCAAAACAACTTGA  
GCTTCTTTCTTGCCACCTCTATTCTTTCTCCACGTTGGGTGACTGAAGTCTGCTTATTC  
TAGTTTATAGAAGAGGATCCACATTTAATGTAAGGCATAAATATGCCTTTTGCAAATTTATGCTT  
GTTCTCCAGTGAACATTTGATCATATTCACAGAAATCCACCATATAAACCATAATCCTTGAAT  
TGCCCTTTTAAATAGATTGGTTAAACCAAAACCTATAAGAGAGAAATGATATTTTATTGTT  
ATTGTAGGTTTGGGAATCCTGGTTAGATTTATAATTTCTGGCCGGGTGCGGTGGCTCATGCC

Table 4

TGTATTCCCAGTACTTTGGGAGCCCAAGGTGGGTGGATCACCTGAGGTAAGGAGTTTGAGA  
CCAGCCTGGCCAACATGGTGAAACCCCATCTCTACTAAAAATACAAAAGTTAGCTGGGCAT  
GGTGGTGC GCGCCTGTGGTCCCAGCTACTCGGGAGGCTGAGGTGGGAGAATCCCTTGAAC  
CCAGGAGGCACAAGTTGCAGTGAGCTGAGATCATGCCATTGCACTCCAGCCTGGGCAACAG  
AGCGAGACTTCATCTCCAAAAAAAAAAAAAAAAAAGTGCGGCCGCTAGACTAGTCN  
>1375

acgcgttcGgTCAGCCtcgTGGCGCGCCACGCCCCACGCCGGCTCTTCcCGGGGTCC  
TTCCGtgcgCGTTGATATGATTGGCCGGCGAATCGtggtCTCTTTTCCTCCTTGGCTGTCTGAA  
GATAGATCGCCATCATGAACGACACCGTAACCTATCCGCACTAGAAAGTTTCATGACCAACCGA  
CTACTTCAGAGGAAACAAATGGTCATTGATGTCCTTCACCCCGGGAAGGCGACAGTGCCCTAA  
GACAGAAATTCGGGAAAAACTAGCCAAATGTACAAGACCACACCGGATGCCATCTTTGTAT  
TTGGATTTCAGAACTCATTTTGGTGGTGGCAAGACAACCTGGCTTTGGCATGATTTATGATTCC  
TGGATTATGCAAGAAAAATGAACCCAAACATAGACTTGCAAGACATGGCCTGTATGAGAAG  
AAAAAGACCTCAAGAAAGCAACCGAAAGGAACGCAAGAACAGAATGAAGAAAGTCAGGGGG  
ACTGCAAAgggcCAATGTTGGTGGTGGCAAAAAGAAATGAAGTGTCTAGCAGTGAGCTGGAG  
ATTGGATCACAGCCGAAGGAGTAAAGGTGCTGCAATGATGTTAGCTGTGGCCACTGTGGAT  
TTTTCGCAAGaACattaaTaaaCtaaaaacttca  
>1376

>1377  
GCGTCCGAGGAAAAGGAGTCGTATAGGGCTATCAATAGGTGCCTCCCACTAAATTTT  
CGGAAAGATGAATTAAGGCATTTATAAAGATCGAATGAAAATTGGAGCAAGCCTTGCCGA  
TGTTGATCCAATGCAACTAGATTCTTCAGTACGATTTGATAGTGTGGTGGCCTGTCTAATCA  
TATAGCAGCTCTAAAAGAGATGGTGGTGTTCATTACTTTATCCAGAAGTCTTTGAAAAATT  
TAAATTCACCCCCAAGAGGTTGTTTGTATGGGCCACCTGGAAGTGGAAAGACTCTGG  
TTGCCAGAGCACTTGCCAATGAGTGCAGTCAAGGGGATAAAAGAGTAGCATTTCATGAGG  
AAAGGTGCTGATTGTCTAAGTAAATGGGTAGGAGAATCTGAAAGACAGCTACGATTGCTGTT  
TGATCAGGCCTATCAGATGCGCCCATCAATTTATTTTGTGACGAAATTGATGGTCTGGCTCC  
AGTACGGTCAAGCAGGCAAGATCAGATTCACAGTCTATTGTTTCCACCCTGCTAGCTCTTAT  
GGATGGATTGGACAGCAGAGGGGAAATTGTGGTCAATTGGTGTCTACGAACAGGCTAGATTCT  
ATAGATCCTGCTTTACGAAGGCCTGGTGCCTTTGATAGAGAATTCCTCTTTAGCCTGCCTGA  
TAAAGAGGCTCGAAAAGAGATTCTAAAGATTACACCAGGGATTGGAATCCCAAAACCACTGG  
ACACATTTTGAAGAGCTAGCAGAAAACCTGTGTTGGATACTGTGGAGCAGATATTAATCAA  
TATGTGCTGAAGCTGCTTTATGTGCTTTACGACGACGCTACCCACAGATCTATACCACTAGT  
GAGAACTGCAGTTGGATCTCTCTCAATTAATATCTCAGCTAAGGATTTTCGAGGTAGCTATG  
CAAAAGATGATACCAGCCTCCCAAGAGCTGTGACATCACCTGGGCAGGCACTGTCCACCG  
TTGTGAAACCACTCCTGCAAAACACTGTTGACAAGATTTTAGAAGCCCTGCAGAGAGTATTT  
CACATGTCAGAAATTCAGAACAAATAAAACATTAGACTCAGATATTTCTTGCTCTGCTAGAAA  
GTGACTTGGCTTACAGTGATGATGATGTTCCATCAGTTTATGAAAATGGACTTTCTCAGAAAT  
CTTCTCATAAGGCAAAAGACAATTTAATTTCTTCATTGAAATAGAAATGCTTGTTACCAACC  
TATGTCTTTTCGACCAAGAATATTGATAGTAGGAGAACCAGGATTTGGGCAAGGTTCTCACTT  
GGCACCAGCTGTCATTATGCTTTGGAAAAGTTTACTGTATATACATTAGACATTCTGTTCT  
TTTTGGAGTTAGTACTACATCCCCTGAAGAAACATGTGCCAGGTGATTCTGTAAGCTAAGA  
GAACAGCACCAAGTATAGTGTATGTTCCCTCATATCCACGTGTGGTGGGAAATAGTTGGACCG  
ACACTTAAAGCCACATTTACCACATTATTACAGAATATTCCTTCATTTGCTCCAGTTTACTAC  
TTGCAACTTCTGACAAACCCCATTCGCTTTGCCAGAAGAGGTGCAAGAATTGTTTATCCGT  
GATTATGGAGAGATTTTAAATGTCCAGTTACCGGATAAAGAAGAACGGACAAAATTTTTTGA  
GATTTAATTTCAAAAAGCTGCTAAGCCTCCTATATCAAAAAAGAAAGCAGTTTTCGAGGCT  
TTGGAGGTACTCCAGTAGCACCACCCTGAGCCAAGATCACTGACAGCAGAAGAAGTGA  
AACGACTAGAAGAACAAGAAGAAGATACATTTAGAGAACTGAGGATTTTCTAAGAAATGTTA  
CACATAGGCTTGCTATTGACAAGCGATTCCGAGTGTTTACTAAGCCTGTTGACCCTGATGAG  
GTTCTGATTATGTCACTGTAATAAAGCAACCAATGGACCTTTCATCTGTAATCAGTAAAT  
GATCTAGACAAGTATCTGACTGTGAAAGACTATTTGAGAGATATTGATCTAATCTGTAGTAAT  
GCCTTAGAATAACAATCCAGATAGAGATCCGAGATCGTCTTATTAGGCATAGAGCCTGTGC  
TTAAGAGATACTGCCTATGCCATAATTAAGAAGAAGTGTGATGAAGACTTTGAGCAGCTCTG  
TGAAGAAATTCAGGAATCTAGAAAGAAAAGAGGTTGTAGCTCCTCCAAATATGCCCGTCTT  
ACTACCATGTGATGCCAAAGCAAAATTCACCTCTTGTGGTGATAAAGATCAGACCCAGAG

Table 4

CAGAATGAAAAGCTAAAGACACCGAGTACTCCTGTGGCTTGCAGCACTCCTGCTCAGTTGAA  
GAGGAAAATTCGCAAAAAGTCAAACCTGGTACTTAGGCACCATAAAAAAGCGAAGGAAGATTT  
CACAGGCAAAGGATGATAGCCAGAATGCCATAGATCACAAAATTGAGAGTGATACAGAGGAA  
ACTCAAGACACAAGTGTAGATCATAATGAGACCGGAAACACAGGAGAGTCTTCGGTGGAAG  
AAAATGAAAAACAGCAAAATGCCTCTGAAAGCAAACCTGGAATTGAGAAATAATTCAAATACTT  
GTAATATAGAGAATGAGCTTGAAGACTCTAGGAAGACTACAGCATGTACAGAATTGAGAGAC  
AAGATTGCTTGTAAATGGAGATGCTTCTAGCTCTCAGATAATACATATTTCTGATGAAAATGAA  
GGAAAAGAAATGTGTGTTCTGCGAATGACTCGAGCTAGACGTTCCCAGGTAGAACAGCAGC  
AGCTCATCACTGTTGAAAAGGCTTTGGCAATTCTTTCTCAGCCTACACCCTCACTTGTTGTGG  
ATCATGAGCGATTAAAAAATCTTTTGAAGACTGTTGTTAAAAAAGTCAAACTACAACATATT  
TCAGTTGGAAAATTTGTATGCAGTAATCAGCCAATGTATTTATCGGCATCGCAAGGACCATGA  
TAAACATCACTTATTAGAAAATGGAGCAAGAGGTAGAAAACCTTCAGTTGTTCCAGATGATG  
ATGTCATGGTATCGAGTATTCTTTATATTCAAGTTCCTATTTAAGTCATTTTTGTGATGTCGCC  
TAATTGATGTAGTATGAAACCCTGCATCTTTAAGGAAAAGATTAAAATAGTAAAATAAAGTAT  
TTAAACTTTTCTGATATTTATGTACATATTAAGATAAATGTCATGTGTAAGATAACTGATAAATA  
TTGGAACCTTTGCTAGAACAAAGACCCTGTAGTAATAGTAATAATAGTTGAAGTTTGGCCAACCTC  
TTAATAAAGTTATTTTGGTAACATAATGTTTTATGGCACTTAAGAATAATTAGCAGCGTTAAATT  
TTGTTTGTATTAAGCACTTTTAATTTTATCCTTCTTAAAAATAGTTTATTGTATCTGACAAGAAA  
CTTACTTAACCATTTGTGTCCTTCCCCTCTTTTTGTGATCTTTGTTTTCTTCAAATGCCCTCCT  
CCCCTGCTGCTTGGAGATTCCCTTGTCTTCACTTAAAAGCCAGAGTGCAAGTCATGATTTGCG  
GGAGGGCTCTTGAACCACTTCTGGCTGCACCACAATTCTGACTTGAGTATCACAGTCATTG  
TTTTTGAGACAAACATTTTTATAATTCTAATTTGGGTTAATAAAGATTTTAAATATTTCTTGTT  
TACTTTTGTAAATATATACACAACAAATGTATTAATAACTACCTTGTTAAACACCTTTTAATAGC  
ACAAGTTTTTATATTTGCAAGCTGTTGATATCTTTCTAAAACCTGTTTAGGTTATAGTCTATTG  
ATACTTTTTATATACAATTTTATAAATATAAATATTATAATTTTATATTAATGGTACCAAAAATAC  
ATTTCTTAAGGTTAAAAGCATGCACTTCCATGCATACCTTCTTTTGGGGAGAGTGGGGAGAA  
GACATTCTAATAATCAGTTTGTGAAATAGCTTCTGTTGGAAACCTTTTGAGGGGAATAAGGAA  
TGGTCATCTAAAATGAGAGATTCTGGATTTTAAATGCAGTTCAAAGTTGAGCTGTATTTTGT  
GTTGATTTATCTGGATTTTTTTTAAAGCCTTCTAAAACCCAGTGAATCAATACCTTAATTAGT  
ACATACTATCTTATGTAATGCATAAAGCAATGCCAGTCACTGAGAACATTTAAATATATTTATA  
TTCTGAGAGATACACATTCTCATTTTTGTTGGTTTATTATAAATTATTCTTCTAGATGCATCTTT  
TATAACTAGGATTTTCAATTTGTGTGTATAGCTTATGTATAAATTTTAAAGGTGAAAACCTCT  
TAAATTTGTTTCTATTTCTTAAGTATTTTAAACATAGCAAAGATAATTCTGTGCAAAAGAAGT  
GTAAAGTCTGTTCTTTCATATATTACTGTGAAAAATTTAAAGTGCTGTTGACACTGGAATGTT  
TTATATGGTANNNN

&gt;1378

NNGTGCGATCTCGGTTACGTGCGTTTTCTCGGAATTTTATTTCCGCTCCCTTATTTG  
GGGGNCCCCGCGCGATTTCCCCACCGTGGGGACCAAAAAAATTTGGGTCCAAGGAGAACC  
ACCTTATGACCCAATGGCGCAATTCCAAACGCCCGTTTTGTCCGCGCGCGCCCCGCGCGAT  
TAGATAGCGCCTCGGGATTTTTTTTTTTTTTTTTTTTTTTGGTAAAAAAAATTAAGTGTATT  
AAAGTACAACCATAGAGGATGGTCTTACAGCAGGCAGTATCCTGTTTGAGGAAAGCAAGAAT  
CAGAGAAGGAACATACCCCTTACAAATGAAAAATTTCACTCAAAATAGGGACTATCTATCTTA  
ATACTAAGGAACCAACAATCTTCTGTTTAAAAAACCACATGGCACAGAGATTCTGAACTAAA  
GTGCTGCACTCAAATGATGGGAAGTCCGGCCCCAGTACACAGGGGCTTGACTTTTTCAACT  
CGTTTCTTTGTTGGAGTCAAAAAGAACCCTTGTGGTTCTAAAAGGTGTGAAGGTGATTTAA  
GGGCCCAGGTGAGCCACTGTTTGTACAAAATCAGGTAACCTAAGTGCATACACTTTTTCTCT  
TTCCATGACATCAAGACTTTGCTAAAGACATGAAGCCACGGGTGCCAGAAGCTACTGCCGATG  
CCCCGGGAGTTAGCCCCCTGGTAATAGCTGTAACTTCCAATTTCTAGCCATACGCTCAGCT  
CATCCATGCCTCAGAAGTGCATCTGGAGAGAACAGGTTTCTAAGCATAAAAGATGAAAGAGC  
AGTTGGACTTTTTAAAAATTCAGCAAAGTGGTTCCCTCTCTTAGGGACAGTCAAAACCAAGTC  
ACTTAGGTAGTACCAAAATAAATAAGGAAAAGCTTAGCTTTAGAAACAGTGAACACTGGTCT  
GCTGTTCCAGTGGTAAGCTATGTCCAGGAATCAGTTTAAAGCACGACAGTGGATGCTGG  
GTCCATATCACACACATTGCTGTGAACAGGAAACTCCTGTGACCACAACATGAGGCCACTGG  
AGACGCATATGAGTAAGGGCACTGACGGACTCATGATTTCTTCTTACCAGATGCTTTCTGT  
TCTTTAAGAGTTTAAATCATCAGAAAGGAAAAACAACTCTATATTGTTGAGCATGCAATACA  
TACCACGCTAGGGCTGGCTCAATTGAAAGTGGGCAAAAGCTTACAAATACTAAAAAGAAGTG



Table 4

CTGCCGCGCAGTGTGGAGGCCACTGTTTGGAAATAAATCTTCCTAACACTACGACTTTTCAT  
GTTTTGGAGTGGACTTTTAAAAAAGTTTTCCAACCACAATGGAAACAGGTTGAACCACACTGC  
GCCTACACATCCATCCATACGTACGCCATTATAATCAGATTCTCACTGGGGGAGGCATTTTC  
TTCCCAAAGGAGCTGTATGCAGTCATCACCCGGAACCTAATGGGAAAGTGTTCTTAAGCAGCA  
AGTGACTCTGGACCACCTCTCTCACACACTGACTCTTCCACAGCATCTTACCTGCTTCTGTT  
TCACTTGAATTCATACAGTAGGCCACCATTTTATAACAGGTCTTAGTGTAATTTCTCCAGAC  
CAAGTCTGAGATAGTCTTGGTTGTAAGCAAGACCGTCACCCCTTCTCCCAAAGCCAACATT  
ATAAAAAGATTCCATTGTCTCAAACACAAATGTTCCAGTCTTGAGCACTTCCCAGCCATGGTG  
ACTCGGGCATATCCTGGCAGTTGGTGGATTTTGCCTGTAAACACAATCCTTGTGGATATGAT  
TCAAAGGTGACTTTAATTCAGAGAATGTGTTTTCTTTCTGTTTTAAAAATATTTGAATTAAGT  
GATGGAAATTCCTTTGTTAAACATCAAAAGCTTTCTCCTTGAAAAGATGCTTGGTGATCTGA  
AAGTCAGGTGGGACATTTGGTGCATTCAGAAGGTCAAATCATTCTGACCTCTCCTCTTAGG  
ACCCAGCATTAACTGCTGCGATACTCAAGGCTTCTTAAAGGATCACAGCACTGGCGCCTAG  
TTTTACTGTCCAGCACTTTATTAGTTGTGCTAGCTGAGAATTGGACCATAGAGGCCTTTGAC  
CCTGCCCGTCTNTNTCAAACNAANNNCNNCCCCCENNNGNTTCNNCCAACAANNNNNNNNNN  
NN  
NNNNNN

&gt;1379

&gt;1380

ACAGTAATTTTGGAAACCTCTTTGATGTCTGGCTTATAGAAGACACCTGGGTTCTTAT  
ATCTGCTTCTGAATTCGATCTATTGTAATGTGTTATTTTGGCTGAAGTATGTGAAGAAAATACT  
ACCTTACAAAGATATGTATTTTCAAAGGAAATACATATCAGAAAGTTTGACAGAGCCAGTGG  
GTGATACTAAGGTTGTCAGGATGGATGATGTCTATCTGGAGAGCTGGCAGGAAACAACCAA  
GCCCCCTTGAGCGCTCCTTGACAGAGCAAGAACTATGATTGATGTTTTCTTACTCACTTGTAAT  
TGCGTGATTTTAGCTCTATTTCAATAACTTTTTCAGAAGACTGTAGATATTCTTCTTTGATACT  
ACATCAGAACTTTGCAAGTAACTTCAAGTAACTTTGTAATATTTCTTTTAAATAATGTGTAC  
TTTTCTATCCTATTACAGTAAAAGCCCTTTATATAATATCCTTGACCTTGGCTGGATCTCT  
ACTTATTCTTGATTTTGTAAACATCATCATTGGTCATCTGGAAAATATTGGTTCAGTGTATG  
AAGCTTCCAAATGTTGACACGTGTCTATTATATAATTTTTTAAATCACATTTGTAAATATCATC  
ACCAATCTCATCAGATCAGTCTTTTAAAGTGTCAAGGGAACCTGTCAAGTTCACAGTTTGCCAA  
AATTCTAATTTCTTTCTATCTGGAAGCTCCAGTTATATATTGGCAATGAATACTGGGAGTTGTT  
TTCTAGAAAGTACAGGCCCCACCATCTGAATAACCAGCTAGTTCACTTTGCCATTGCT  
CACACAAGTACTTTTCTTGAGGCCTCCATCATAATCTCAAGTACCAGAGTGCTTTGTATGTA  
TGTCCCGTTTATACACATACATTATTAAGAAAGACTGATGCTCAAGGGTAAAAATTTAACAAAT  
TAATAATTTGCACT

&gt;1381

NNNNCGCGGCGCGCTCGACACGGCTGCGAGAAGACGACAGAAGGGGGAACGCTC  
GGCGCTGCCGGGTGAAATCGTAGGACAGTGAAGATGCTGCTGGAATTGTCCGAGGAGCATA  
AGGAACACCTGGCCTTCTGCTCAAGTGGACAGCGCGGTGGTCGCCGAGTTTGGGCGGA  
TTGCTGTGGAATTCCTGAGACGCGGCGCAAACCCAAAAATCTACGAAGGCGCGCCAGAAA  
ACTCAATGTGAGTAGTGACACTGTCCAGCATGGTGTGGAAGGATTAACGTATCTCCTCACTG  
AGAGCTCAAAGCTCATGATTTCTGAACTGGATTTCCAAGACTCTGTTTTTGTCTGGGATTCT  
CTGAAGAATTAACAAATTGTTGCTTCAGCTTTATCTGGACAACAGAAAAGAGATCAGAACGA  
TTCTGAGTGAATTGGCACCAGCCTTCCAGTTATCATAACCTTGAATGGCGACTAGATGTA  
CAGCTTGCAAGTAGAAGTCTCAGGCAACAGATTAACCAGCAGTGACTATAAAGCTACACCT  
TAATCAAAATGGAGATCACAACACCAAAGTTCTGCAGACAGACCCAGCCACCCTGCTCCATT  
TGGTTCAACAACCTGGAACAAGCATTGGAAGAGATGAAGACAAACCACTGTAGGAGAGTTGTT  
CGCAACATCAAGTAGTACCAGTTTTAAGGTTTTAATTCATTTGAATCACTTATGAATTGATGAT  
ATACAGCAATTACTTTTCAAATTAATTTTTTATTAAATTCATGATGATAAATACATAGTATTCCT  
CAGTATCTATTCCAAGATACTGAGGTCATAATCAGAAGCTAAGCTGGGTGCAGTGGCTCATG  
CCAGTTATCCAGCACTTTGGGAGGCGGAGGTGGGCAAATCATGAGGTCAGGAGATTGAGA  
CTTCTGCTGCTAAGTGGTGAACCCCATCTCTACTAAAAATATAAAAAATTAGCCAGTGTG  
GTGGCACGCATCTATCAGAGTCCAGCTACTCAGGAGGCTGAGGCAGGAGAATCGCTTGAA  
CCTGGGAGGTGGAGGTTGCAGTGAGCTGAGATTGTGCCACTGCACTCCAGCCTGGGTGAC  
AGAGTGAGACTCCATCTCAAAAAATAATAATAATAATAAAGTAAAAATAAAAAATAAAAAAGT  
AATCAGAAGCTAAAGTAAAGTTCCTTCTGGTGCTAACTGTGGTCTTCTTGACACATTAAGA

Table 4

TGTATTTTGTATTTTAAAGAGTCTCATGCTCTACCGTTGGAAGTACCCAGATGGCCATTATTTT  
GTATTTTAAATACATAAATAGGATTGAATCAACTAGAAATGAATCTATATGTTCTGTATATATG  
AATGACTATCTTGTTTTGCTACTTCTTTGACTGCTTAATTTTATTATTTTTCATCTTTATTGATC  
AAATTTGAAAATAAAATTCACAATGTAATACTACTACTATGCAGAATTTTCTAAACAGTTCAGT  
ATTTTGTACTTTTAAAAACACCCACAGTGTTAATAGCCACAGAATATTGAACATCAATAGGAT  
TTTTAATGCTATATTGTTATAGGCAGTTTATTCATTTTCTTTGTATATGAAGATGATAAGTATC  
ATATTGCCTAAGTTTTGAGTGATCATGGTTAATTAATTGGCTTAAATAGTACTCAAATTTGTGTG  
GTCGTATATTGTATTTTATCAAGGACTAATTCTTCCACCATACCCAAAGCATCTAGGAGACAC  
TCTGTCAATTTACATTTACAAATAATGGATGCAGAGAAATATAATCAATTCCTGATTGTCCTGGA  
TACAAATTATAGTCACTTTTTATAATTTGAATAAACTATGATGAGGGAAGGAAGGCCATGTTTA  
TTACATTATAGGCAACTATCCCTTCTCAAAACATAAATTGATTTATGTTTTGTTTTATTTTTAG  
TAGGGAACCAAAAGCTTTTGGTCTGAAAACTCAGGTGCTGATTTGTCAGGTCAGCCTGAGA  
GAGTGACAGAGATACTGAGGTCAGCTTAGGGAGAAAGATTGTATGGAAGGGTGAAATGAGG  
GTTCACTCTTAATCTATGTGTCCAAGACCTTATCCTGAGAGTCTTCATGGAATAATCTAGAAAG  
GGCTGTAGAAGCAATCAAACCTCTAAACTGCGCTCTAGACTTTGTCAATACTTTGCTTCGTAAG  
AATTAGGGATTTTCATATCAGAGTGATACCATGTTGCAATCTCTTTAGAGAAGAGAGAGCCTA  
GCAGGGAATAGGCTAGTGGAGAAAAACATCTTGAGATGGTTACCCATTGGTCCCTGCAG  
GCATCTGGGGCCACCTTTTCTGTAGGTATATATTCTGCCGTTGTGAAACAACATATATTATTA  
GATGTCAGCAAACATAATCAGAAATAATTTTAAATTATAGTGGCAACTTGATTAATGAAGCTC  
TCATATACAACCTCACAACAAAAAGAACTTTATTACGTGAAATAGTAGCATATGTCATTGG  
GTTTAAAAGCAACATGCCTGCAAAACATATGATAAAAAATACCTCTGTAAGGGTTTTTATTTGT  
CCACCTTCGATGGAAGGTAACATGGCTGATCCCAGCCAAGATGAAACAATAGCCCTTTGTC  
TCCTCAGAACCAACCTATCTCCAACCTCTTTGTCCACTGTTCTTACCCCAATTAAACAAGAAAG  
CATGTGCTAATCCTTTTTTAATTTTTATCAACCTGCCTTGGCCTCCTTCACTGTACTCCATTA  
TTCTTCTGTGATGTTCTACCTTCTTCACTTTTGTAGACCAGGGTGAGTTGGGAGCAGTTTG  
CCTACCTTCTTTTGAATCTGGGGCTTATCTTTTGTAGTACAAGCCATTGAATAAGCCTCTTCCTT  
TTTTTGTCTCAACATTCACATCCTTGTGATTCCCCTGCATTGTTTGTATATAACATTT  
GATATTTGTTGTAGCTTGTATATGAACATAATTTTCTTTAGAGGTAGTCACTGTTCTCTCCAGT  
ATGACCCAGGTTTCTTGACTCTGAGTAATGCACCTTCTATAACTATCTAAATTTCTACTGAAG  
CTTTTTGGATTATGAGTATGCTGACTTTTACGATTGGCTGGTGCATGTTTAGACTTAAATGT  
CATATCCTTCATGTCTCAAAGCCAAAATAGTAACATCTCATCTCAGAACAGAGCTGTGACCAC  
ATGCCAATATATGTGTCACAAAGTCTACATATGTTACATTCCCTTGAAGTCTCCTTAAATGTTT  
CAGAAAATGTCAACAAGCTTGTGTGTTATTGATTTTCCGAGATTGGGCACATTTAAGACAG  
TAAACGGGAAAGGTGGTGAAGATGCTATAAGAAGATGCTGTATCTTGAGAATTGAAAAATGA  
GAATCTGACATGGTTTGA AAAATCATGAAGGGTATATATAAAGGATGCATGTGTAGGAGCCA  
TTAAATTCATAACAGTATGTGCCCTTCAGCGTTTTAATCTTATGAAGTGGTTAAGAGATAA  
GTCTTCGGAGTTGGACAAAAGGATTTGAATTTAGGTTCTGTGGATTATTATGGGTCCTTGATA  
AATTCTCAAAGCCTTTTTTTTTGTTTCATCTCTAAAATAGGAATATAGGATTACCTACCACATTG  
ACTCGTAAGGACTATATGAGACCATGTATATAGAATGTTTAAACATAGTACCAGGCTTTACAAA  
GAACTCAATAAATGTTTACCATTATTGNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN  
NN  
NN  
CCCGGGACGNNNNNNNNNNNN

&gt;1382

&gt;1383

NCCGCTTTGATATGAATTATTATGCAAAGAATGACAGACATAGAGACTGCAAAGGCC  
AAAGGGACATATGTCTGTCATTCTTTGCATAATAATTCATATCAAAGGGGAGAAACAGCTATT  
TTTTGTCCCTAGAAGTTCTGCTCTTAAGGTTGAAAAGAAAGTTTGAAAAATCATATCATTTAGG  
TTAGAAGTACTTTGTGTTGTTGGTATCCAAAATTAGGACTCTGAGATTCTTGTGTATTACAGAG  
AATTTTTAGTAGGAAACAAGGACAAATTTGCATATGAAATGAAAATAGTTATTACATGACAAAA  
TATGTAGATCTGATTTCTAGAACTGAATTAGTCCAAAACAAGTAAGAGTGGGAAAAGCAGTA  
AAAAGTTCTTCTGAATATTGCTGTTGTATCCAAAGTATTCTTATTTCTTTTAGGTGAAAAAT  
TCCATTACTTTTTGTGATATTCTCAAAAGAAAGTTTAGGATTTTACAGTGTCTGAAATACGT  
AATCTTAATTCAGTATTTCAATAGAGTATTATTGATTTGCTTCTTATCAGTGGATTTTTAAAT  
ATTTATTTCTAGGCTATTGAACCTTCTAAAATTTAATCCCAAGTAGGTTTAAAGCCGGATATC  
TAGGACCAAAGGTTTAAAGACTCTTTTTCTGGGGCATGCTATTATTTAACAGTTTTTCTCTAA

Table 4

TTGGGTTTTGGTTTTGGGAAACATGAAATAATTGGTTCTTAAAGCAATCCTTAAGGTCTATTA  
GGAAGTTTTCTAGGCCCAAATAACCCTTTAAGAATTTTAGGGTTAAATTGGCAAGGGACCC  
CGGTGAAAAAAAAAAAAAAAAAAAAACGAGN

>1384

NNNNCGTCCGAGTGGTGCTGTTGCCGTGACTGTCTTCCTATTGGCGCCCGTGCAGAG  
AGGCGGAATGTTCAACTCCTAACTGCGGCGGAAACGTGGGAGCCGCGCGGGCCGCTGTGCG  
TCCCAACCCCGCCGCCCTCGTCGCGCGCGGGCCCTCCGCGCCCCCGGCTGCTGCTCAC  
GCCCCGCCCGGGAGCCAGATTTTGTGGAAGTATAATACTTTGTCATTATGAGATGTCGTCTC  
TCGGTGCCTCCTTTGTGCAAATTAATTTGATGACTTGCAGTTTTTTGAAAACCTGCGGTGGAG  
GAAGTTTTGGGAGTGTTTATCGAGCCAAATGGATATCACAGGACAAGGAGGTGGCTGTAAA  
GAAGCTCCTCAAAATAGAGAAAGAGGCAGAAATACTCAGTGTCTCAGTCACAGAAACATCA  
TCCAGTTTTATGGAGTAATTCTTGAACCTCCCACTATGGCATTGTACAGAAATATGCTTCTC  
TGGGATCACTCTATGATTACATTAACAGTAACAGAAGTGAGGAGATGGATATGGATCACATTA  
TGACCTGGGCCACTGATGTAGCCAAAGGAATGCATTATTTACATATGGAGGCTCCTGTCAAG  
GTGATTCACAGAGACCTCAAGTCAAGAAACGTTGTTATAGCTGCTGATGGAGTATTGAAGAT  
CTGTGACTTTGGTGCCTCTCGGTTCCATAACCATAACAACACACATGTCCTTGGTTGGAACCTT  
CCCATGGATGGCTCCAGAAGTTATCCAGAGTCTCCCTGTGTGAGAACTTGTGACACATATT  
CCTATGGTGTGGTTCTCTGGGAGATGCTAACAAGGGAGGTCCCTTTAAAGGTTTGAAGG  
ATTACAAGTAGCTTGGCTTGTAGTGGAAAAAACGAGAGATTAACCATTCGAAGCAGTTGCC  
CCAGAAGTTTTGCTGAACCTGTTACATCAGTGTGGGAAAGCTGATGCCAAGAAACGGCCATCA  
TTCAAGCAAAATCATTTCAATCCTGGAGTCCATGTCAAATGACACGAGCCTTCTGACAAGTGT  
AACTCATTCTACACAACAAGGCGGAGTGGAGGTGCGAAATTGAGGCAACTCTTGAGAGGC  
TAAAGAAACTAGAGCGTGATCTCAGCTTTAAGGAGCAGGAGCTTAAAGAACGAGAAAGACGT  
TTAAAGATGTGGGAGCAAAAGCTGACAGAGCAGTCCAACACCCCGCTGCTGCCTTCTTTG  
AGATTGGTGCATGGACGGAAGACGATGTGTATTGTTGGGTTACAGCAGCTCGTCAGAAAAGG  
TGACTCTTCAGCAGAGATGAGTGTATATGCAAGCTTGTTTAAAGAAAACAACATTACAGGGAA  
GCGGCTGCTGCTGGAGGAAGAAGACCTGAAAGACATGGGCATTGTCTCCAAGGGCCA  
TATCATTCACTTCAAGTCAGCCATTGAGAAATTAACCCATGATTACATAAATTTGTTTCACTTC  
CCACCACTAATTAAGGACTCAGGAGGTGAACCTGAAGAAAATGAGGAAAAAATAGTGAACCT  
GGAACCTGGTTTTTGGTTTTCACTTGAAACCAGGAACCTGGCCACAGGATTGTAAGTGGA  
TGTATATGGAGATGGATGGGGATGAAATTGCAATAACCTACATAAAAGATGTGACATTCAACA  
CTAACCTACCTGATGCGGAGATTTTAAAGATGACAAAGCCACCATTTGTAATGGAGAAGTGG  
ATTGTAGGAATAGCAAAAGTCAGACTGTGGAGTGCAGTGTACATATGAGAGTGATTTAG  
AACTCAAAAAAGCACTAAACATGTCCATTTGATTCAGTGGAGTAGAACAAAACCTCAGGATG  
AAGTGAAAGCAGTCCAACCTTGCCATTGACACATTATTCACCAATTCAGATGGCAACCCTGGA  
AGCAGGTCCGACTCAAGTGCTGATTGCCAGTGGTTAGATACTCTGAGGATGCGGCAGATTG  
CATCCAACACTTCTTTACAGCGTTCCAGAGCAATCCTATTCTGGGGTCACCGTTCTTCTCAC  
ACTTTGATGGCCAGGATTCTACGCTGCTGCTGTGAGACGGCCCCAGGTGCCCATTAAGTA  
TCAACAGATTACACCTGTGAACCAGTCCAGAAGCTCGTCTCCTACTCAGTATGGACTGACCA  
AAAACCTTCTTCCCTACATCTCAACTCTAGGGACAGTGGCTTTTCCAGTGGCAATACTGACA  
CCTCTTCAGAGAGGGGTCGATACTCAGACAGAAGCAGGAACAAATATGGACGTGGTAGTAT  
ATCACTCAATTCTTCTCCTAGAGGAAGATACAGTGGAAAGAGTCAGCATTCCACTCCTTCAA  
GAGGAAGATACCCTGGAAGTTCTACAGGGTTTCTCAGTCAGCACTCAATCCTCACCAGTCG  
CCTGACTTCAAGAGAAGCCCCAGGGACCTCCACCAACCCAAACACCATACCAGGGATGCCTT  
TGCACCCTGAGACTGACTCAAGAGCCAGTGAAGAGGACAGCAAAGTCAGCGAAGGGGGCT  
GGACAAAAGTGGAATACCGGAAAAAGCCCCACAGGCCATCTCCCGCCAAAACCAATAAAGA  
GAGAGCCAGAGGGGACCACCGTGGATGGAGAACTTTTGATGAATTGAACTACATAGCTTTT  
CTAAGCAGGTTAAAAAAGATAAGATGAATGGTTTTTGATAATATGATCCCTTC  
AGATTGAATTAACGAAAAGACAACACTTCCAGTTTTTGGATTGGGAAATACCTTCTAATTGAG  
ACTATAGCCAAACCAGGGCCAAAATTATGGATATTGGTCACCCAGTGATCATAACTAGGCTT  
GAAAATCACTACACATATTTTCTGCCTTGAGTGAACATTTTAGAGGAAAGGTTATGCCATCT  
TTTTACCCTAACCCTGATATTCTGGTTAGCAGGGCCAGGACAAGGGGAAGGAAAAATGAGGT  
CAACAAAAAATCAAATTTTGGGAAAGATAAGATGAATGTTACTGATTTTCTTTTGGCTG  
AGGCTGCAATATGGCCTGGCAAGGCACTGTTACTGATCTTGTCTTTAACATTTTGATTTTTG  
TTCATCATAATTTTGCATTTATTTTTTAAATATTGCATTAATAATCATTTAGCTTGATTATCG  
AGTTTTTGGTTGAGGTTTTTGTGCTTCTTTTTCTTTCTTTCCCCCTCTTTTTTTTG

Table 4

GATGTCCCCTTAAATTTTGTGCCCAAGGCAGGTACCTCACTCATCTCATCCTTGGCTCAGCC  
CTGCTGGTTAGTATTTAGTATTTATTTAGTAAGATATTTGTGTCTGTATGATGGTCAGAGTTG  
AACTGATCTGGCTTGTCAATTTTTCAGTAATAAAAAAGTTACTGAATTTAATTGTTGAATATGA  
TGCATATCTCATTCACTACGATTTATCAGAAACCAAAGATTTAAATTGCCTAGATTTGTGGTTC  
TTTCTCTTCTAAGTTCCCAGCGACTGCTTTCAAATACTATTTTCTAAATTTACCAAAGGAGC  
AAAGAGGATAAAACAACACTCCATAAAGGCCTCTTGGGATGTCAGAAATCTAAATCTAAAG  
AAAACAGACACAGAGCAAGACAATAACATCACAAAGCTAAAAGCCAGAGAAATTTAAATTTACC  
AACATCCTTGTGGAGTAAGACAGTAAATATCAGCCTTGCAGCAAGACAGCTCTGAGCAGCT  
GTGGGCAAGAGGTAACCAGTGGGGGTGCAAGGAGACTGTCTGCAGCTTAGGGCAGAAA  
TGGTGGGATCCAACCTTGTGAAATGCTTCATGTTTTACAAACCAAAAAGTCAGGTAGCAACAAA  
CTTATTGTATGTCAAATCAATAAATGTTACTTTCAATATTCTGAGATTCTGTTTCAGCATTCACT  
AACCTGTTTAGCATTCACTAAGCCCTACATAGGATTCTCAGTGCTCTGN

&gt;1385

&gt;1386

&gt;1387

&gt;1388

&gt;1389

&gt;1390

&gt;1391

NNNNNGGTTGTGGGTGGAGGGTGTTTTAAATAACAGCTTTACAGAGAGATATCATTC  
ATAATTCATAAGGTTTTAACTTTTTTCTTTTTTAAAGACAAAGTTTTACCTTCTGTACATTGA  
AAAATCCTCTATATTCTTGAAGATTCTGAGCAATACATTACAGACCCAGGTTTGGGATTTGCA  
TACTATTGGAGAACTGCTTCTGAAGATAAACACTTCAAGAATTTGAGAAAATTAATACTAA  
AACCGAAAACATGAACACAAAGGCACAAAACATTGCCTAACATTGCAGAAAATTAATTTAAAT  
CCTGATATGCTTGTAGAAGAAATAGTTTTTCTGTTTTGCTTGCAAACTTTGAGGAATGCAT  
GAACTTCAGAAGGGGAACACCATACAAATGAGATTTTTTCACTTTAGAGGAATGAGCTAAAA  
GAGAATATGGTTTAGATTAAAGAATTATTTTCTTACAGTTGCAGAAGAATTAAGAAGAATAAN  
N

&gt;1392

&gt;1393

NNNNNNNNNNNNNNAAAAGTGATTCAAACAAAACAATAGAATTCTGCTTCTATACATG  
AGAGGATAACTGTTACAGGACACGCTCTCCTACCATAAACAGCTAGAAAAGTTTACAAGTTAT  
TTGAAATAACTGTTTTTCAGACATTAAACAAGTGGCAGCACAGGACTGTGATCTCTGACAGAG  
GGAAATACACGAAGTACAACCTGCCCTACATTTCTGCCTAAAGGCAATTTCCAGACTACACAG  
ACAGAGAGGAAATGCACATAGAGCCCAACTGTCTCTGAAAAGAGACAAGAGAAATCTAATTT  
CTAGGGGGTAGCTAGAATTTTCAGAGCAATGTCCTGGAGAAGAAGTTGTGCACAAGAAGATA  
TTCAAAAATCATCATGAGGGACCCCTTGAATGTTTGGGAGAATACAAATCTGCTTATGTATAG  
GGTGAAAGACACAGAGCTGATCAAAGTGCAACTATCAGGATCAAGAACAAATTAACGCGAA  
GGTCAAGTGTAAGCNNNNNNN

&gt;1394

&gt;1395

NNATCGACCCCCATTTCGCGAGAAGCCCGCCATTGTGTTGGTACCCGGGAATTCGCC  
AAGTCGCCGCAAGCGCGGAAGTGGGGTTGCGGCGTCTAAGTGTTTCCGGTGGATTCCCAG  
GGACTGTCGGAGGTGTGGACTCTGCCTGCCTACCTGGTCTGGGAAGATGTTCTACCATATC  
TCCCTAGAGCACGAAATCCTGCTGCACCCGCGCTACTTCGGCCCCAACTTGCTCAACACGG  
TGAAGCAGAAGCTCTTCAACGAGGTGGAGGGGACCTGCACAGGGAAGTATGGCTTTGTAAT  
TGCTGTCAACCACATTGACAATATTGGTGCTGGTGTGATCCAGCCAGGCCGAGGCTTTGTC  
CTTTATCCAGTTAAGTACAAGGCCATTGTTTTCCGGCCATTTAAAGGGGAGGTCGTGGATGC  
TGTTGTCACTCAGGTCAACAAGGTTGGACTCTTACAGAAATTTGGGCCATGTCTTGCTTCA  
TCTCTCGACATTCCATCCCTTCAGAGATGGAGTTTGATCCTAACTCCAACCCACCATGTTACA  
AGACAATGGATGAGGATATTGTGATTGAGCAGGACGATGAGATCCGCTTAAAGATTGTGGG  
GACCCGTGTGGACAAGAATGACATTTTGTCTATTGGCTCCCTGATGGACGATTACTTGGGGC  
TTGTAAGCTGAGCCTGGTGGCCTCCTACCTTGGTCTTACTCTAGGAAGTGTGATTGTACAC  
CTTATCATGTTGTCCAGAGGTCCAGTCTGGCTGCTGTTGTGGAGGCAAGGAAGGCAACTCA  
TCCCAGAAGGCATCTGGTGCTTCTGTAGCTTAACTACTGCCTCCTCATTTTTTCAGTATGTGT

Table 4

TCTAAGTATAAAAAAGTCCTTGGTTCTCAAAAAAACAACAAACACACACACAGCAC  
AAACACAAACAACACCGCGGCCCTTCCGGCGGAAACAACAAACAAACCGACAACN

>1396

NGTACTCGGTGTGTAGTATTTAGTTCTGTGACTGTGTGGTCTGCTCAGATAGTG  
TGCGATGTCGAGTGGCGGATCGCTTAGTGGGTTTCTCGCGCTGAGGGATGTATGGGCGTC  
GTGTCAGTATGTGATCATGGACTGTTGATGGTGTGGTTGACGNTACAACAGCTGGNCGGGT  
ATATCGATTGCTGGCTCCCTGGGTGAGACCGGGAATGCCCTCAAGCCCCATGGGGTTGTTT  
AAAACCAGCCCGGTGCGCCCCGGCCGTTTTTTTATTGGGTGGAAACCCACCCCTAGTTCGT  
GGCCCGGGTTCCTCGGGCACGCGGGGCCAGGGTTCACCACCCAGGGCCCGGCCCAAC  
GAGGTTGTTAAAGACTTTTTGGGGCCCCCAGGCCCCCAAAAAGTTGTTTTGTTTTTTTTT  
TTTTTTGTTTAAAGGTTTCAGAAATTATTTATTGTAGTAGTACTTACACGTAAGATTTTAGCCT  
ATGGTCATTTTATAAAGATGACTGTTAGGATTTAATTCACATTTAAAGAAAATGAGATTCGTTA  
TATTATGGTGTTTTTTATGACCTATAAAATACTTACCCCTACAAATTTCCATAAATGTAGTGGT  
TAGTAAAGCTTTTTTCTTACTGAAAAATAATGCCAGGTAACCAAGTATTATTCCTTCCATCATT  
TATTTAGGAAAAAGTTTTATGTATTAGGGTAAAGTGGTAGAAGTTAACCTAGAATCTAATAATC  
TCCAATCACCCATTCTGATCTAATAGTAGCCATGAGAAAAATCTCTAGAAAGAATCATACC  
TCTCAAAAAATAAAAATAAAACAAGGCTGGGTGCAGTGGCCAGCATAGTATTTTATTTAT  
AACGTGGAAGCAATGAGGTGGGCAGATCGCTTGAGCCTAGGCATATCGCCGGACGCGTGG  
GTCGN

>1397

>1398

>1399

NNNNNNNNCACAACCAGGACTGGCCCTTAACCAATGGAGCCCCATTGGAATATAA  
GCAAATCCCGCAAACGGGTACTCCCCGAAAGCAGCAATACGGCCGCCTTCGGCCGGGAGA  
GACTTTACAAAAATGAGGGCTTTTATTTTCCATTTGGAACGTGGGACAACAGACCACAACGC  
AATCCATTTTGAAGTCTTTCCAAGGGAGAAGCTGTTCAACCACCCGTTTGGGGGATGAGT  
GAGCCGACACTTTCTTTGGTCTTTCTGAATCGTAACCTGCACTGCTTTCTGGACCATTCTAA  
GGCGGCCCTTTACAAGAAGACATTCCTGTGCGGAGAGGAGGGTGGACTTCGGAGAAATTCTCA  
TACTGAAGCATGAGCTTAGGAGTTTCTGTTAGTGGTAGTGGTGTGTTTGGACACTTCATTCCTT  
GCAACACCGAGGTTTTGGGTGTTGACATAAAGTGGACCACACACCACATCTGCTGCCGTCTT  
GACACTTTTTTTGTTTGGTTGGTTTGTACATCTTACATTATGCAGAACTATTTTGTACAAA  
TTGTTTAAAGTTATTTATGCAAGGTTTGAATGCGTACACAGTGTTTTTATTGTTTTGAGATTGC  
CAATTTTCTGATTTCTTAAAGGTAGGAGAGAATTTAACGTGTACTTCATCGACACAACCCAT  
CTACAAATGTGCCAGATCTAACAAAGTAGGCTAAGACCTTCCACTTAAAGCATGTTTAACT  
GGAAGTTGAGAGTCTGCTTTGTACCTCAAGAGTTACATGAGCATGTTGTGGATAAATGTAAT  
TATAGTCAAAGTAAGATACTCTGCCAAGTTTCTCTGTAGAGAATTCATTTTCTCAAATTTTA  
AAATTTGACTTCAGCCTTTGCACTCAGGAGGTTCTGCTCCAGCATGAGCTCTTGTACTTACA  
TAGATCTAATTTATACAGTGAGTCAAGACGTAGAATAAATGCTCCACATAGCCTTTCTTTTG  
CTTTTGCTTCTCCTCTGAAGTGTGAGTTGAGTTCTCATTTAGGTTTGTAAACATGGCTATTTT  
CTAGTTGTAAAGTTCTGCATTTATAAGTGCCATTGTTGTAAGGTGGTGTTCCTAGACCTTCC  
CTGATGCGATTTTACCTTTGTTGAATTTGTATAACAATTGTACAAAAAAACCACCTTTGAAC  
TTTGAGGGTTTTCTGTTCTAGGAGTGGACTAGAAGTTTAAAGCCAGAGTCAGTAAACACTGTT  
TTGAAGTCCAAACAATGTAATTTATGATTCATACGATGTTACCCTGTGGTGCAGCATTTCTCT  
TTCTTAAATAGCAAGCAAGCTGTTTCTGGCTCGTAAAGGTAACGGAGAAGAGCTGCTCTTA  
CCACACATAATTAATTCATGGCTACTTGCCATTACCANNN

>1400

>1401

CCCTTAGCGTGGTCGCGGCCGAGGTAATCAGATGTTAAATTTCTTCAATGTAA  
TGCTCTGTGATGCCATCCTACCTCCTGTCTCCCCACCCCTCACACACACCTAAAAGCACT  
CTGGGCACAGTAGTTACACAATAAACGCTAAAAGCCTGATTTAACAACGTATATAAACAAAC  
TACTTTTATGTGACTACTATACCTCTGGGCATGGTATTAACTATCCCAACCAGAGTACCTGC  
CCGGCGCGCCGCTCGAAAGGG

>1402

>1403

>1404

Table 4

&gt;1405

NNATGGATTTATGCATAATTCCCCATTACCCCTTGACCGGCCGCCCGGGCAGGTA  
CCTGGCTACAGTAAATGCTCAAGGCCCTTTGTTATTATTTTACAGATGGCCAAGAATAAATGTTT  
TTCAAGGATCTTCTTTTTGTAGACAACGTGTGTAGTCACAGTTTACAGTCGTAAATTATCTGCCT  
GGCAAGATACTTTTTAAAAATTAATGTAAGAACCTGAGGGGATTCACTCCCAAATGTTTAT  
GGACAACTGAAAGGGCATTACACAGATATTACCTTCTACATTTATGTGAGAAAGTGCTTTA  
AGACACTGTACCTCGGCCGCGACCAC

&gt;1406

&gt;1407

GTTTGAATTATTTAATTTGATCCATTTATTTAATTAATAAAAAAAGGAAGGGGAAAGAG  
ATCATGGCCAAAAAATAGTAGTTAACCCCAACCCCAACCCCAAGCTCTAGCCAGTCATGT  
GAGCATCACCCACATCCCACTCAGTGCCCTGATATTCCGGATGGTGGCATACTCTGCCCCAGG  
AGACTGCCCTGAAGGCACGGGGCAATGGGTGCCAATTTTAGCTCTCAGCAGGTTAGTCAACC  
AGACAACTGGTGGGCTAAAGTCCAGAAATCTTTCCAGGTTTTCTGCTCATTGGCTGAGCA  
CATACAACTGTCATAAGCCTGTAAATTTAAGGGGAGTTGGGGTGGGGCGTAAGAGCAAAA  
GGACAGCAGGAGAAGAGAAATTACGGGTCAACCAAGTTTTCTGGGCTAGTGGCTCTGGA  
TATAGATTTAAAGAGAGGTGAGAGTAAATGGACTCCAGGTTTTCTTATCAAAGAAAACTATCCC  
TCAATGAGGAGCTGAGATGTGCCATGCAAGAGAGTTCTTCTGAGAGGCACAGGAGAAAG  
GGCAGCTGACTCTCTCATGTGGAGAGAGTGGCGAGGAAGGTCTTCTAGTACCATGAAGTAA  
GACAGGCAGAGGGAGAATCCTGAGGTTTGGGCCAAATGTGAGACTGGTACACACACAGTTA  
AAGACTAAAAAGCCATCAGGAACCCCTCAAAGCCAAATCTATCTGCACACTGGCTCTACAAA  
GTTGCGCAGCAAGAATCTCTTGACCAAGTCAAGTTAGTGGCCTGGCTATGATGGATGGTGG  
GGAGGGCAATACATTTTTATTTTTCAGAGGGATGAGGTGGGAAGAACAGCCATGATCTAGTAA  
AAAGAGACCTGCAAGAAGCAGAAAATATTTAGAGAACATTTAATATATATTTTTCATATATATA  
TTTAAAGTTAAGAAAAATAAACTAATTCAAGCCATGCCCTGTGCAAAAAAAAAAAAAAAAAATAAA  
GAAAAAAGAAAAAAGGAAAAAGAAAAAATAAAGTGAGACGTTTGCTGCTCTGGTC  
TCAATTTAAGAATCACAGTCAGCTTGTTACTTTTATTTTGAAGAAAAGATGTAAAAGTTTCTT  
TCAATCATTGAGAAGGCAAGTGTAGCCACTTATAAAAAACAGAATGGCAGGAACAACTAGGA  
AAGGAAAGTCAGAAGTAAAGGGCAGAGTGGGAAAAATAATTTTCAAAAATAAAATTAACAAGG  
TGACTGTTCCAGAAGAGGGCTGTGAAAAGGACATGGTGGACCGAAGTCTGTTAGTCAAGTA  
ATGATTCAACTTTTAAATTATTCTCTTGTCTTTTTTGTGGGTGTTTTGTTTGTCAAGTCTAA  
GATTTGAAATGCTGACCCTTTGTTAAGAGCCAACAGGACATATAGGATCCCTTCCCTCCCC  
CGGCCTGCCTCCGCTGAAGCCACCACCGCCTCCTTGGCTGGATGCTGGAGAGATCCT  
CCATGTGTACGGACTCAGGATGACAGGGCAGCCTCCTTCTGTGGTTGCTGGGCTTGTGAAC  
GTTGCAGTATCTTTTGGCTTTCCACGTCTCTAAAATGTTTTCAACTATTTTGCCTACATGGCT  
CAGTGCACCTCCCTCTTTGCCCTTACAGTTTCCACTTGATATGGGGGTGTAATAACAACCTC  
TTCCATGACTACGATGTTTTTTCTTGCCATTTACAGTCTTTAATGGTCTTGTGAATGGTCTGG  
AAGAGCTGCTGGCCCTCTAGAGAGACACCAGCACTGATTGCATAGGCCTGGCTCAGCTGGC  
AAGCTTACTAACATTGAGTGAAGCTAGGGGAGGAGGGGTTTCTGTTCCGGTCCGGACGCGTG  
GGTCGACN

&gt;1408

ACGCGTCCGCGCTAACCAGTCCCCAGTTCAGTAGACTGGAGCCAGAGCCTGCTT  
ACTTGTGAGGTGTTTTATTTTGTCTTGTCTTTTTTTTTTTTTTAAATGAAGTCAAAATGCCAATAA  
GACCAGATCTCCAGCAGTTGGAAAAATGCATTGATGATGCTTTAAGAAAAATGATTTCAAAC  
CTTTGAAAACACTTTTGCAAATTGATATTTGTGAAGATGTGAAGATTAAATGCAGCAACAGT  
TTTTCCACAAGGTGGACAACCTTATATGCAGGGAACTTAATAAAGAGGATATCCACAATGTTT  
CAGCCATTTTGGTTTCTGTTGGAAGATGTGGCAAAAATATCAGTGTATTGGGGCAAGCTGGA  
CTTCTAACGATGATAAAACAAGGACTAATACAAAAGATGGTTGCCTGGTTTGAAAAATCCAAG  
GACATTATTCAGAGTCAAGGAAATTCAAAAGATGAAGCTGTTCTAAATATGATAGAAGACTTA  
GTTGATCTTCTGCTGGTCATACATGATGTCAGTGATGAAGGTAAAAACAAGTAGTGGAAAG  
TTTCGTACCTCGCATTTGTTCCCTGGTTATTGACTCAAGAGTGAATATTTGATTAGCAAGA  
GATTATAAAAAAATGAATGCTATGCTTGACAAAATGCCTCAAGATGCCCGGAAAAACTCTC  
TAACCAAGAAATGTTAATTCTCATGAGTAGTATGGGAGAAAGGATTTTAGATGCTGGAGATTA  
TGACTTACAGGTAGGCATTGTAGAAGCTTTGTGTAGAATGACCACAGAAAAACAAGACAAG  
AACTGGCACATCAGTGGTTTTCAATGGATTTTATTGCTAAGGCATTTAAAGAATTAAGGACT  
CTGAATTTGAAACAGATTGCAGGATATTTCTCAACCTTGTAATGGCATGCTTGGAGACAAAA

Table 4

GAAGGGTCTTTACATTTCTTGTGTTATCAGCATTTCTTGATAAATATGAGCTGCAAAATACCATC  
AGATGAAAACTTGAGGAATTTTGGATTGATTTTAACTTTGGGAGTCAGACTCTCTCATTCTA  
CATTGCTGGAGATAATGATGATCATCAATGGGAAGCAGTTACTGTGCCAGAGGAAAAAGTAC  
AAATATACAGCATTGAAGTGTGAGAATCAAAGAAGCTACTGACAATAATTCTGAAAAATACAG  
TAAAAATTAGCAAAAGAGAAGGGAAAGAATTGCTTTTGTATTTTGACGCATCACTAGAAATCA  
CTAATGTAACTCAAAAAATTTTGGTGCAACTAAACATAGGGAATCTATCAGAAAAACAAGGTA  
TTTCAGTTGCCAAAACGTCGCTGCATATACTTTTGTGACGCAAGTGGATCACAGATTCTAGTGC  
CAGAAAGTCAAATCTCACCAGTCGGAGAAGAGCTCGTTAGTTTAAAGGAAAAATCAAAGTCC  
CCAAAGGAATTTGCTAAACCTTCAAATATATCAAAAACAGTGACAAAGGGAATAGAAATAAT  
AGTCAGCTTGAGAAAACTACTCCTAGCAAAAAGAAAAATGTCTGAAGCATCAATGATTGTTTCT  
GGTGACAGATAGATACACTATGAGAAGTCCAGTGCTTTTCAGCAACACATCAATACCACCAG  
AAGAAGAAGAATTAACCACCAGTCAAATGACGAGCTCTGCAGAGAAACCTAGTGTCTCTC  
AAACATCAGAAAAATAGAGTGGATAATGCTGCATCACTGAAATCTAGATCATCAGAAGGAAGA  
CATAGAAGAGATAATATAGACAAACATATCAAACTGCTAAGTGTGTAGAAAAACACAGAAAT  
AAGAATGTTGAATCCCAAACCAAAATTTTAGTGAAGTCCAGGATGTTATACCAGATTACAG  
GCAGCGGAAAAAAGAGATCATACTATATTACCTGGTGTGTTTGTAGACAACATCTGTGGAAATAA  
ATACACAGCAAATGGGCATGTTGGACACCTGTAACAAACATTGAACTATGTAATAACCAAAGA  
GCAAGTACTTCGTCAGGAGACACATTGAATCAAGATATTGTTATAAATAAAAACTTACTAAA  
CAAAAATCATCCTCTTCAATATCTGATCATAATTCTGAAGGAACAGGAAAAGTGAAATATAAG  
AAAGAACAAACCGACCATATCAAAATAGATAAAGCAGAAGTAGAAGTTTGCAGGAAACACAA  
TCAGCAACAAAATCATCCTAAATATTGAGGGCAGAAAAAATACTGAAAATGCCAAGCAGAGTG  
ATTGGCCTGTTGAATCTGAACTACTTTTTAAATCGGTTCTCCTAAATAAGACAATTGAAGAAT  
CGCTGATATATAGGAAGAAATACATATTGTCAAAGATGTGAATACTGCTACTTGCGATAAAA  
ATCCATCTGCTAGCAAAAATGTGCAAAGTCATAGAAAAGCAGAGAAAAGATTGACTTCTGAG  
CTTAATTCCTGGGATTGCAAAACAAAAAATGAGAGAAAAGTCAAAGGGGAAAGAATTTACC  
AATGTAGCAGAAATCCTTGATAAGCCAAATCAATAAAGATACAAAACAAAAGATGACATCAAG  
TCTACAAGAAAATTAAGGAGTCTTTGATTAAACAGTGGTTTTTCAAACAAACCTGTTGTACAA  
CTCAGTAAGGAAAAAGTTCAGAAAAAAGCTACAGAAAACCTGAAGACTACCTTTGTTAATGTT  
ACTTCTGAATGCCAGTGAATGATGTTTACAATTTTAAATTTGAATGGAGCTGATGACCCTATC  
ATAAACTTGGAATCCAAGAGTTTCAAGCTACAGCTAAAGAAGCTTGTGCGGATAGGTCAAT  
TAGATTGTTAGGTCCAAGGAATCATGATGAACCTTAAATCTTCTGTCAAAAACAAAAGATAAAAA  
AATTATAACAAATCATCAAAAGAAAAATCTGTTTAGTGATACTGAAACAGAGTACAGATGTGA  
TGACAGCAAGACTGATATTAGCTGGCTAAGAGAACCGAAATCAAACCCACAGCTAATAGACT  
ATAGCAGAAATAAAAATGTGAAGAATCATAAAAGTGGAAAAATCAAGATCATCCTTGGAAGG  
GACAGCCAAGCTCTAAAATGACACCCAGTAAAAATATCAAAAAAAGATGGACAAGACAATT  
CCGGAAGGAAGAATCAGACTTCCACGAAAACCAACCAAAAAAATACTAAGATCT  
CTCAAATTCAGAAATCAGAGTGTGAACAAGAATTTTACATTCAATTTAAAGAGAACATACCAGT  
AAAGGAGGAGAATATCCATTCCAGAATGAAAACGGTAAAGCTACCAAAGAAACAACAGAAAG  
TCTTCTGTGCTGAAACAGAAAAGGAACTATCAAAACAATGGAAAAACTCATCTCTACTAAAAG  
ATGCTATACGAGATAATTGCCTTGACTTATCTCCAGATCTTTATCTGGCAGTCCATCATCTA  
TAGAAGTAACGAGATGTATAGAGAAAAATACAGAAAAGGATTTTACTCAGGATTATGACTGCA  
TAACAAAATCTATATCACCTTATCCAAAAACTTCATCACTTGAATCCTTAAATAGTAACAGTGG  
AGTTGGAGGTACAATAAAGTCACCCAAAAACAATGAGAAAACTTCTGTGTGCAAGTGAAA  
GTTGTTCACCAATTCACGACCACTGTTTTTGCCAGACATACTCCAACCTAAGAGTAATACTA  
TTGTAATAGAAAAAATAAGTTCTCTGGTACTTACACAAGAAACACAAAACAGTAACAGCT  
ATTGAGATGTAAGCAGTTATAGTTCAGAAGAACGGTTTATGGAAATTGAATCTCCACATATCA  
ATGAAAATTATATACAAAGCAAAAGAGAGGAAAGTCATTTAGCATCTTCATTATCCAAGTCTA  
GTGAAGGAAGAGAGAAAACGTGGTTTGACATGCCCTGTGATGCTACTCATGTATCAGGCCC  
CACCCAACATCTTAGTCGCAAAAGAATATATAGAAAGATAATCTAAGTAATTCGAATGAAGT  
AGAAATGGAAGAGAAAAGGAGAAAAGGAGAGCAAACTTGCTTCCAAAAAATGTGTAATTTG  
AAGATGCAGATCATCATATCCAAAAATGTCTGAAAGTGTATCTTCATTATCAACAAATGACTT  
TCTATTCTTGGGAGACCTGGCAAAATGAATTTGCAGGGATAGAGATGACTTTAGAGACTT  
ACGAGAGGCTCAATTCAGAATTTAAGAGAAGGAATAATATCCGACATAAAATGTTGAGTTATT  
TTACTACGCAGTCTTGGAAAACAGCTCAGCAACATCTGAGAACAATGAATCATCAAAGTCAG  
GACTCTAGGATTAATAAACTTGATAAATTCGAATTCATTATCATAGAGGAGCTGGAGAATTTT  
GAAAAAGATTCACAGTCTTTAAAGATTTGGAAAAGGAATTTGTGGACTTTTGGGAAAAGATA

Table 4

TTTCAGAAGTTCAGTGCATATCAAAAAAGCGAACAACAGAGGCTTCATCTTTTAAAACTTCA  
TTGGCTAAAAGTGTCTTCTGTAATACTGATAGTGAAGAACTGTTTTACATCCGAGATGTGT  
TTGATGAAAGAAGATATGAAAGTGCTGCAAGACAGGCTTCTTAAGGACATGCTAGAAGAGGA  
GCTTCTTAATGTACGCAGAGAACTGATGTCAGTATTCATGTCTCATGAAAGAAATGCTAATGT  
GTGAAATCTAGTTTTTATCACCATACTTTATCTAATTATTATTCTCTGTATATAACTGAGGAAAT  
AAGAATAGTCCTACAAAGAGAAAAATATACATGTCACCGAAGCAAGGTACCCCTTTATAGGAA  
CCCTCAAATTAAAAAAAATGTCTTTTAATGGATGAGAGGGAACCACTATAACATGAGTCCAA  
GCCCAGAAGACTTCTGTCTATACAATATTTTTTTTTTAATTTTGGAGATAAAAGCTTTAAGAAAC  
TTTTTGAGTTAATTATACTCATAAAATGAGTTTCTTTAATAAATTAATTTTATTGTGTAATGT  
ATTATTACATAAAATGTGTTTTGAATCAATGCAGTTTGGGGATGAATATAATTAATATGTT  
TAATAACTTAGAATTCAACTAATAAAAAATTTAGCCACACTTACAAGGGGGAGGAAGTCCCTAG  
TTTAAATGTATAACTGAGTGGTAGATCAGTACTTTCAGCACACTGTTGGAAACATTTATTCA  
GATATGGCTCTAATGTATTAGGAAGCACTAAATGGCCTAAAAAAGCTACTACATTGCCTAAAT  
ATGTTAATTCAATATAGAAGTCCTATTTTATAACCAGGCTGTTTGACAAATACTTTAATCTAG  
TAGTCATTGTAATATCTTGCTAGATTAATTTATAAAAAATGAGTATACATTTGATTGCTTTTAAT  
GAAGTTGAAATAAATGCTTATGTCACCTGAATAAATAAATCATTATANNNN

&gt;1409

&gt;1410

&gt;1411

&gt;1412

&gt;1413

&gt;1414

&gt;1415

ACTTACAAAAATTTTAAACATTAGGAGGTAATTATAAGTAGATTCTGTGATTAGGACTT  
CATTCTATGTATCTTTTGCTACATAAACCTTTGTTAGATTAAATGGAAGACACCTGCTAGGTGA  
TACTTTTTATAAAAACATATGAGTAAGTCATATATCTTTGTTAAATTTCTGTATGTTCTTTTTGT  
ATAAAGATGGAGAGAAAGGATGGAGTGATACTAAGGACCCTAATAACATCTCTGTTCAAATTA  
ATTACTAAGTGATAGAAGTATTCATATGCCATTAAAGATTTGCCAATTCATTTGAATTTTATTT  
GATAAAGCTTGAAGTCAAATAACCTAACAGCTGTCTTTCTTTCTTTCTAAACCTTTTAAGAA  
TAGATTTAATATTTTTCTGAGTTTTATTAAAGAGTTATTTATGTTACGGTTTGTTTTTATAAAA  
GTAGCATCGCAAAATAAAAAAGTCTGCATCCTTGCAAGTTATTCACTGCTCACGTGCTTGCTC  
TTCTCTGGTAAATTAAAAAAATAAAGATCAAGAAGAGTCTGGGAGGAGGAACAGATGAGTCA  
GATGGGTTGAATCCTGTGAGTAAGTGAAGAGTAATAGGAAAAAAACACTATGGTCATGAA  
AGAAGTGCATCCTGAAAGGTTGTG

&gt;1416

CAATTAAGTAACTTTTTTTTAAATTAAGTAAAGTTGGTATTTCACTAGGACGATTTAG  
CAGATGAAATGGGTTTTAAGTTTGAACACCATTTCTTCTCCTTATTACATTTCCCTTTTTAAT  
GTTAGCCCTCNNNTCTGCATCAA  
AAAGCCTTCCTACATTAATACTTGAGCATGATAACCTTACAATGAAAGGTAAATCATTAGTTG  
AATCATGAAACATTTTCTTCCCCTTGTTGGAGAAAAATCAAATTGCTTTTCTCTGCTCTTACAC  
CACAATCATCAACACAGTAGACTTCTGTGACCAAATGTGTGGGGATTTCTCCCCACCAACAA  
GAAGCAATCAGTTCTGCAGAAGATACCACAGCTGAGCACCTTCTAATCCAATTCAATTCTCA  
TGCTATCTACCTGGAGATAGCATTAGATCCACAGGCTGAGAGAGGGCTCAGTCTCACAAG  
ACTGCCCCACTTCAGACACTAGTTGTAAGGCCAGGCCTCATCCAGAAGTCTGGCCAACCA  
GCTTCAAGTCAGTGTTCCTCATGACCCCTTCTTAGGTTTGATTAAATTTGCTAAAGCTGTGCC  
CAGAAGTCAAGGAAACACGTGTACTGGTTTTATTATAAAGAATAGCACAAAGAATGCAGATGA  
AGAGGTGCACAGAACAAGGCATGTGGGAAGGGGTGCAGAGCTCTCATACCCTCCCTGGGT  
GCACCACCCTCCAGGACCCTCCACGTGTTGAGCTATCTGGAAGCTCTCTGTACCCGGTCCA  
GGACTTCACTGGACCGTCACGANTGAAGCATGGACAACCGGGTANAAATATGATTGGANNNN  
N

&gt;1417

&gt;1418

NNNNNNNNNNNAAAGGAAAAAGGAAGAAAGAAATTCAGAGAGGAGGTTTCGCAG  
TGAATTTCAAGTGGCACCATACCCACAGGCAGTTTCTTAGGGAGTTCCACCAGTTCCCCAGAG  
CATGGCTTCCAGCAAATTCCTTGGCATCACCTCCAGGTAGCTTCCAGAGAGTTCCACTA  
GCACACTAGAGGCCATCTTCTTATAACGCCAGAAAGTGTGCAAGGCACCCACAGGGTAA



Table 4

CTGTCTAGTGATTTCCACCAGCACCCCCAGAAAGCAGGCCCTGCTTGCCAGCCACCACAT  
GGACAACCCACAGGCTTCCCCACTATCCAGTGGGCCGTGACCAAATCCTGTTTAATGAGG  
TCTGGATCTCGGCCCTGGGAGCCACCCCATTCCTGGATTGCTCCCTCCTGGGTCCCCTG  
CCTTAGCCCAGCAGTTACAGATGCTCTTGCAATTTGCTGCTTATGTTCTCTTAGAGTCCCTCA  
GTCCCTCTAGCAGCTAATCCCATGTTACCAGTTGACGACTCTTCTAGGAACTTCACCTGTT  
GGTGTAATTAGTACAAGCTCTATGGAAACAGTATGGAGATTTCTCAAAGAACTAAACATAA  
ACCCCATTCATCCAGCAAGCCCCTACTTGGCA

&gt;1419

ACACATAAGTTCATTCTTGGCTTTTTAAATTTTATGGAAAGACTAAATACATTTGTGTC  
TATTAATCAAAATATGAATTTAGAAGGAAATAATTTTGTGTAAAAAATTGTATGGTAAAATTT  
TACCTAATTTAAAATTGTTGTTCCATAATTTTTTAAAAAGAAAAATTACAGAAATAAGACTTGG  
GGGGTGGGGTTGAAAAGTGGTGAAAGAACTAAACAAGTAGAAGAGGATTTCTAAAGCACT  
GGTCTCATGAAAAAAGTTTCATGTGTGACTGGGTCCACTGAGATTGAAAAGAAATTGTTTATA  
CGATATTCTAAAAATTAATGTTGCTGTCAGGGATGACATGATACAGGACCAGAGTCTGTGTA  
AACAACAAAGTTTTCTTAAAGTATTGATACACGCTTTTAAAAATTGCAAGAGGTTTAAAGTTTA  
ATTCAAAAATCTGTTTAAACAGCCATTTGTACCTGCCCN

&gt;1420

&gt;1421

&gt;1422

&gt;1423

NNNNNNNNNNNNNNNNNNNNCACTCTGTATTAAAAGTANAACCTTACTAAAAGAAAAGAGG  
TTTGTGTTACATTAAATGGTTTTGGTTTGGCTTCTTTAGTCAGGCTTTCTGAACATTGAGAT  
ATCCTGAACCTTAGAGCTCTTCAATCCTAAGATTTTCATGAAAAGCCTCTCACTTGAACCCGAA  
CCAGAGTACGCGGGCAGTGTCTATCTCTGAGGCTGAGCATTATAAGAAAATGACCTCTGCT  
CCTTTTCATTGCAGAAAATTGCCAGGGGCTTATTTCAGAACAACCTTCCACTTACTTTCCACTG  
GCTCTCAAACCTCTCTAAGTATTGTTGTGAACCCCCACCCAGGCAGTATCCATGAAAGC  
ACAAGTGACTAGTCCTATGATGT

&gt;1424

&gt;1425

&gt;1426

&gt;1427

&gt;1428

NNACCATATAGGTTGGACGACGGAGACACGTCATTTCATGCGAACTTTCCCTTCACCCA  
AATGCAGAGCAAAATGTTGCTCCCCAGAAAGCCCAAGGTAGCTGAAGCCATTTCTAGTTGACA  
TCGGCAATCTCCATTCTCTTCACTCCACACTTTGACAACCTCACTCTGTGGAGCCATTTGGCTCA  
GTCAAATTTTTATTTTTTTTTTTTACATATATAGCATAGTGCTGATGCTTAAAGATCCTGTTG  
ACTGAAATAAGTTGCAAGGAATATTAGTTTCAGGGAAATATCAAAGTGTAATAATATATGGGA  
TAGTGAGAAAAGAAAAGCCATCCAACACCAGCACATTAGAAATTACTCAATCACTTCTGTTCAT  
GTGAAAAGGGATCAGCACCCCAACCCAGAGCAAACTCAAACCTCTGAGTCTATTACCAGTTAA  
GTCAAGACTTGGCTTCTATTTTTGCAAAGTAATCAGTAACTGAGTCAGCTGTGAAATTCCTGGT  
TGCTCCTTGATCTTGTGTAAACATTTATCCAATCATTTAGGCTGTTTGGGTTGAAGGAGGGTTAT  
TACAATAAGAACATCTTTGAGAGACTTTTTCAAGAAAATTGTTTCATTGTTGGGGGAAAAAAC  
CCCTCATTTGCCACAGGAACCTAAGGTTTGGTCTGTGAGCCAAAGGTATTGTTTCATTATTCAA  
ACTGGGAAAGTGATGCTGGTGGGGGGCAGTTAGAAGTGGAGAGGGGAAAAGGTAGAGATCA  
AGTTAGAAGAGACACTTTTTAAACAGTATTTTTATTTAAAAAAATTCTCTCCACAGGACTTAC  
TACATCCAACATCAAATCAACTTAAAAAACCCACATCTCTCATGGCTCCATTTGAAGAAAGAC  
ACATCCTTCACAGTGCTATATTACCTTGTCTGTGATATTATGGATCCTGGTTAGGAAAAGGATT  
CATACCACAACCAATCACGTCCGCCTATGCTGAGAAGTGTCCATTTCTTTAGGCTGAAAATAA  
GACTGTACTTTTATAAACAATAGGAAAATGTGATCTATTGCTTCTTTCTTGGTCCGTGCCCC  
TCGCCTTGCTAAGTCAGTTTTTCGACTGCCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTG  
TGCATGTGTGTGTCCAGAGGCCACTGATCCAGTCCAAGTGTATTTAGAAATTAGTTTCAGTGGC  
TCACAAAGGTCTTAGAGGCCACTACTGCGCTGGGGAAATCCATTGAGCTTGGCTTGTCTCTC  
TTGCTCTTGCCAATGTGCACTCTGCTTACATGCACACACTCCTTAGGAAGATGCCAGTTATCTC  
TATTTTATGN